

# ICONE31

31<sup>st</sup> International Conference on Nuclear Engineering

# Program

CONFERENCE Aug. 4–8, 2024

> Hilton Prague Prague, Czech Republic

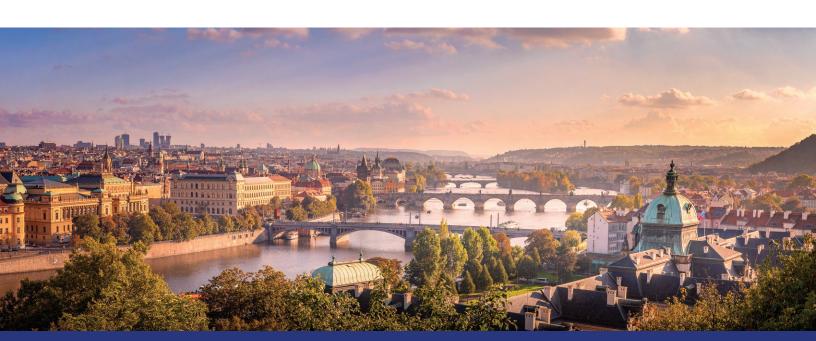
https://event.asme.org/ICONE





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#### **Dear Colleagues**

On behalf of the ICONE 31 organizing committee, I would like to extend my wholehearted welcome to the 31st International Conference on Nuclear Engineering. During the COVID-19 pandemic, the ICONE meetings were mainly held virtually. Since ICONE 30, we are back to a fully in-person conference with all its substantial benefits with regard to professional and social networking opportunities, interaction between presenters & attendees during the workshops, plenary speeches, panel discussions, and of course technical paper presentations unhindered by the time zone constraints during the virtual meetings.

The first annual ICONE conference was held in Tokyo in 1991 with the American Society of Mechanical Engineers (ASME) and the Japan Society of Mechanical Engineers (JSME) as the conference sponsors. In 2005, the Chinese Nuclear Society (CNS) joined as a sponsor with the ICONE meeting held in Beijing. As has been a long ICONE tradition, the ASME Nuclear Engineering Division is delighted to continue our collaboration with our long-time partners JSME and CNS.

The theme of the ICONE 31 conference is "24/7 Clean Nuclear Energy – Solution for Global Warming." As per the U.S. National Oceanic and Atmospheric Administration (NOAA), Earth's average land and ocean surface temperature in 2023 was the highest global temperature among all years in NOAA's 1850–2023 climate records. Solving global warming is critical for the survival and well-being of the human race, and Nuclear Energy is one of the key technologies that can be of significant help. We, the nuclear community, must work together to promote a global nuclear resurgence. Through ICONE collaboration, ASME, JSME, and CNS continue to be a strong global voice in support of Nuclear Energy utilization.

As the premier nuclear engineering technical conference, ICONE is for nuclear professionals who want to stay technically current and on top of industry trends and developments. This is especially true as new reactors of various sizes are being developed, not only for electrical power

production but also for energy required for non-electric generation uses. As always, the success of ICONE is due to the contribution of numerous professionals from industry, government, academia, and technical societies from around the world. We, at the ASME Nuclear Engineering Division, would like to thank the Track and Session leaders who helped organize the technical papers presented. This conference will cover a wide range of topics in multiple tracks including: Operating Plant Challenges, Successes, and Lessons Learned; Nuclear Plant Engineering; Advanced Reactors and Fusion; Small Modular and Micro-Reactors Technologies; Nuclear Fuels, Research, and Fuel Cycle; Nuclear Codes & Standards; Thermal Hydraulics; Computational Fluid Dynamics (CFD); Verification and Validation; Advanced Methods of Manufacturing (AMM) for Nuclear Reactors and Components; Decontamination, Decommissioning, and Radioactive Waste Management; Beyond Design Basis and Nuclear Safety; Risk Informed Management and Regulation; and supporting the future of our Industry, the Student Paper Competition.

In addition to about six hundred technical presentations, ICONE 31 will present multiple plenary and panel sessions. We welcome the keynote speaker, Petr Tresnak, who is the Deputy Minister of Trade in the Czech Republic Government. The plenary and panel speakers/sessions will address key technical challenges and business issues facing the nuclear industry, featuring discussions with leaders from industry, academia, and government.

We will also hold a number of technical workshops to expand the knowledge base of our professionals. Lectures and discussions in these workshops will target a wide range of practitioners and young engineers to provide the basic principles, requirements, codes, standards, and best industry practices. Recognizing the growing importance of Artificial Intelligence, in ICONE 31 we are introducing a new workshop topic entitled "Advanced Technology-Artificial Intelligence (AI), Advanced Manufacture (AM), High-Performance Computing (HPC) in Nuclear Engineering." This will be in addition to our four traditional workshops.





# ICONE31 31st International Conference on Nuclear Engineering

Our thanks to our Conference Sponsors for their continued support of the Nuclear Industry in general and ICONE in particular. Special thanks go to the ASME staff without whose support, it would not be possible to organize the logistics of this conference. I would also like to extend my sincere thanks to the technical paper reviewers for assuring that these papers meet the high standards set by ICONE. Finally, we recognize, honor, and say thank you to all the authors, keynote and plenary speakers, panel participants, and workshop tutors who are the major contributors to the success of the conference. I cordially invite all of you to participate and support the ICONE 31 activities. Together, we will make the conference a triumph and continue the success of our great industry as well as the Nuclear Community as a whole.

Asif Arastu

Asif Arastu, Ph.D., ASME Fellow

Chair

ASME Nuclear Engineering Division Conference

Hidehito Wimaki

Hidehito Mimaki, MHI

Chair

Japan Society of Mechanical Engineers

Jiangiao LT U

Jianqiao LIU, CNS

Chair

Chinese Nuclear Society

#### **ASME Nuclear Engineering Division Committee Members**

Asif Arastu

Unisont Inc.

Leon Cizelj

Jozef Stefan Institute

Gassin Hassan

Texas A&M University

Rosa Lo Frano

University of Pisa

Shripad Revankar

**Purdue University** 

Hitesh Bindra

Purdue University

Jovica Riznic

Canadian Nuclear Safety Commission

Richard Schultz

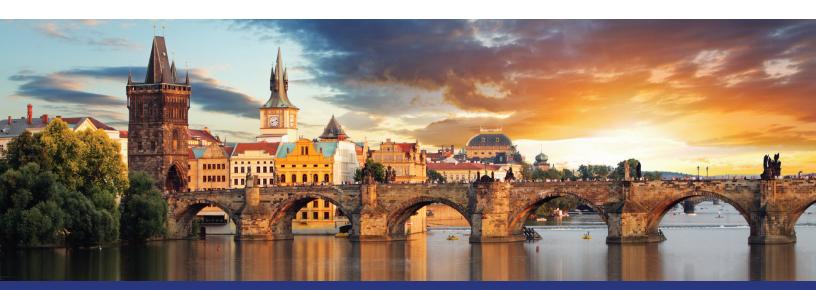
Idaho State University

Guoqiang Wang

PNNL

Tom Vogan

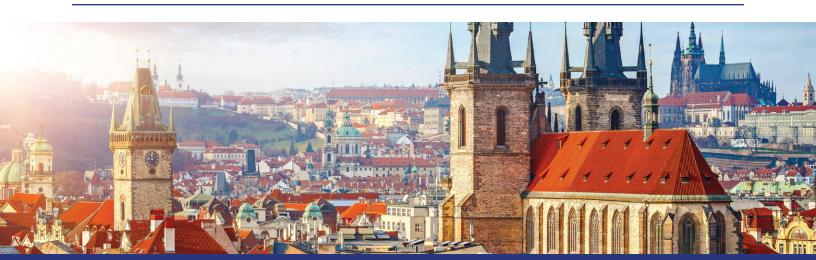
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#### **ICONE 31 Conference Organizing Committee**

	ASME	JSME	CNS
Conference Chair	Asif Arastu, Unisont Inc.	Hidehito Mimaki, MHI	Jianqiao Liu, CNS
Conference Co-Chair	Yassin Hassan, Texas A&M University		
Conference Secretary		Toshitake Kurashige, MHI	Yanyan Zhu, CNS
Technical Program Chair	Shripad Revankar, Purdue University	Kimitoshi Yoneda, CRIEPI	Guanghui Su, Xi'an Jiaotong University
Technical Program Co-Chair	Leon Cizelj, Jozef Stefan Institute		Xiaojing Liu, Shanghai Jiao Tong University
Technical Program Secretary	Hitesh Bindra, Purdue University	Yuta Uchiyama, CRIEPI	Zhenchao Liu, Xi'an Jiaotong University
Steering Committee Chair	Jovica Riznic, Canadian Nuclear Safety Commission	Tetsuaki Takeda, University of Yamanashi	Jianqiao Liu, CNS
Steering Committee Vice Chair	Richard Schultz		
Organizing Committee Chair	Rosa Lo Frano, University of Pisa	Hidehito Mimaki, MHI	Suyuan Yu, Tsinghua University
Organizing Committee Co-Chair			Sichao Tan, Harbin Engineering University
Organizing Committee Secretary		Toshitake Kurashige, MHI	Yanyan Zhu, CNS
Student Program Chair	Shripad Revankar, Purdue University	Satoshi Takeda, Osaka University	Suyuan Yu, Tsinghua University
Student Program Co-Chair		Hideharu Takahashi, Tokyo Insti- tute of Technology	Liangming Pan, Chongqing University, Guizhou Institute of Technology
Award Committee Chair	Jovica Riznic, Canadian Nuclear Safety Commission	Tetsuaki Takeda, University of Yamanashi	Jianqiao Liu, CNS
Award Committee Co-Chair	Guoqiang Wang, PNNL		







# ICONE31 31st International Conference on Nuclear Engineering

Time	Sunday, August 4
8:00AM - 6:00PM	Registration
9:00AM - 4:30PM	ICONE Workshops
5:00PM - 6:00PM	Entrance Meeting - Closed Meeting
5.65 G.65	Enterties meeting closed needing
Time	Monday, August 5
7:00AM - 6:30PM	Registration
8:30AM - 10:00AM	ICONE Opening and Keynote Session
10:00AM - 10:30AM	Refreshment Break
10:00AM - 8:00PM	EXPO Open
10:30AM - 12:00PM	Plenary Session 1: Current Status of Nuclear Power
12:00PM - 1:00PM	Ticketed Lunch
1:00PM - 2:30PM	ICONE Technical Session
2:30PM - 3:00PM	Refreshment Break & Poster Session
3:00PM - 4:30PM	ICONE Technical Session
4:45PM - 6:15PM	ICONE Technical Session
6:30PM - 8:00PM	ICONE Welcome Reception
Time	Tuesday, August 6
7:30AM - 5:30PM	Registration
8:30AM - 10:00AM	Plenary Session 2 : The Future of Nuclear Power
10:00AM - 4:00PM	EXPO Open
10:00AM - 10:30AM	Refreshment Break
10:30AM - 11:45AM	Plenary Session 3: Small Modular Reactor -Global Perspective
12:00PM - 1:00PM	Ticketed Lunch
1:00PM - 2:30PM	ICONE Technical Session
2:30PM - 3:00PM 3:00PM - 4:30PM	Refreshment Break  Panel Sessions
5:00PM - 6:30PM 7:00PM - 9:00PM	ICONE Page vet
7.00FW - 9.00FW	ICONE Banquet
Time	Wednesday, August 7
7:30AM - 5:30PM	Registration
8:30AM - 10:00AM	ICONE Technical Session
10:00AM - 4:00PM	EXPO Open
10:00AM - 10:30AM	Refreshment Break
10:30AM - 12:00PM	Panel Sessions
12:00PM - 1:00PM	Ticketed Lunch
1:00PM - 2:30PM	Panel Sessions
2:30PM - 3:00PM	Refreshment Break
3:00PM - 4:30PM	ICONE Technical Session
4:45PM - 6:15PM	ICONE Technical Session
6:00PM - 7:30PM	Student Awards and Track Chair Reception
Time	Thursday August 9
Time 7:30AM - 5:00PM	Thursday, August 8  Registration
8:30AM - 10:00AM	ICONE Technical Session
10:00AM - 10:30AM	Refreshment Break
10:30AM - 12:00PM	ICONE Technical Session
12:00PM - 1:00PM	Ticketed Lunch
1:00PM - 2:30PM	Panel Sessions  Pafrachment Break
2:30PM - 3:00PM 3:00PM - 4:30PM	Refreshment Break

Exit Meeting - Closed Meeting



4:45PM - 6:15PM 4:45PM - 5:45PM

#### **General Information**

#### **ASME SWAPCARD APP**

Download the ASME Conference App and hold the entire program in the palm of your hand! The ASME Conferences App allows you to easily look up sessions, search for abstracts or people, message with other attendees, and create your own schedule. An email with the login instructions was emailed to you. Be sure to download the app for the latest information.

#### **App Assistance Hours**

 Sunday, August 4
 8:00AM-6:00PM

 Monday, August 5
 7:30AM-4:00PM

 Tuesday, August 6
 7:30AM-4:00PM

 Wednesday, August 7
 7:30AM-4:00PM

#### **General Conference Registration**

Czech Republic VAT will be applied to registration at checkout.

Registration Type	Onsite Registration (rates are excluding 21% VAT)
Member	\$1,140EUR
Non-Member	\$1,340EUR
Student Member	\$400EUR
Student Non-Member	\$450EUR
Life Member	\$400EUR
One Day Member: Mon–Thu	\$600EUR
One Day Non-Member: Mon-Thu	\$700EUR

#### **Guest Registration**

Guests can purchase tickets for the Opening reception for \$70EUR plus VAT and \$100EUR plus VAT for the banquet.





#### **Attendee Information**

#### **Acknowledgment**

The 31st International Conference on Nuclear Engineering is sponsored by the American Society of Mechanical Engineers (ASME), the Chinese Nuclear Society (CNS), the Japan Society of Mechanical Engineers (JSME), and the Czech Nuclear Society (CNS). The conference is hosted by the ASME Nuclear Division. Conference organizers would also like to acknowledge the cooperation of the following organizations:

Chinese Nuclear Society Japan Society of Mechanical Engineers Czech Nuclear Society

### PUBLICATIONS: ICONE31 CONFERENCE PAPERS AND PROCEEDINGS

Technical papers accepted for publication for ICONE31 will be available through a dedicated Online Papers site available to all fully paid attendees beginning a week before the conference.

- The ISO batch file and two zip files also will be made available on the Online Papers site prior to the conference, so that users may download to their personal computer systems.
- Post-conference, papers presented at the conference will be published as the official Proceedings of the conference on The ASME Digital Collection (asmedigitalcollection.asme.org).

Authors may refer to The Digital Collection for DOI links and citation information for their papers.

All ASME conference Proceedings are disseminated worldwide and submitted for indexing to SCOPUS, COMPENDEX, the ISI Conference Proceedings Citation Index, Web of Science (Clarivate), and Google Scholar. For further information about ASME Publications, please contact <a href="mailto:conferencepubs@asme.org">conferencepubs@asme.org</a>.

#### Registration

The Registration Desk is located in the Congress Hall Foyer, Lower Level, Hilton Prague and is open during the following hours:

Sunday, August 4 8:00AM-6:00PM Monday, August 5 7:30AM-5:30PM Tuesday, August 6 7:30AM-5:30PM Wednesday, August 7 7:30AM-5:30PM Thursday, August 8 7:30AM-5:00PM **Name Badges:** In addition to being a means of identification to colleagues, you are required to wear your name badge for admission to conference sessions and events. Room monitors will check name badges before allowing anyone into the session or event.

**Daily Registration:** Attendees who have paid the one-day registration fee qualify for a badge representing the day they have selected to attend. Attendees wearing this badge are entitled to the following on the day they have selected to attend: admission to conference sessions, refreshment breaks, and the Exhibition. Daily attendees will also receive a conference bag and online paper access.

**Accompanying Person:** Guest tickets are available for purchase for the Opening Reception and Conference Banquet only. Prepurchased tickets will be included in the registration package of the attending registrant.

#### **MEMBERSHIP TO ASME**

Registrants who paid the non-member conference registration fees will receive a four-month complimentary ASME Membership. ASME will automatically activate this complimentary membership for qualified attendees. Please allow approximately four weeks after the conclusion of the conference for your membership to become active. Visit <a href="www.asme.org/membership">www.asme.org/membership</a> for more information about the benefits of ASME Membership.

#### **Conference Hotel**

All meetings and social events take place at the Hilton Prague.

#### Wi-Fi

Complimentary Wi-Fi is available throughout the Hilton Prague meeting space. To access the Wifi service log onto the Hilton network and follow the prompts in your browser.

Network Name: Hilton Honors Password: prague24

#### **Smoking**

Smoking is not permitted anywhere within the Hilton Prague. Smoking is permitted outside.

#### **Tipping Etiquette**

At restaurants in the Czech Republic a gratuity or service charge is usually included. If it is there should be no need to leave a tip. If no service charge is included, it is good etiquette to tip the server 10% to 15%.



#### **Speaker Practice Room**

#### Florenc 1

If you are a presenter, please be in the session room 15 minutes prior to the start of the first presentation of your session in order to meet with the session chair. Florence 1 is on the Mezzanine Floor and will be available to all conference participants as a presentation "practice" room. The room will be equipped with two LCD projectors, two computers, and two screens, and will be open during the following hours. Authors are encouraged to use this facility to meet with their co-authors and review presentations.

Sunday, August 4	2:00PM-5:30PM
Monday, August5	7:00AM-5:30PM
Tuesday August 6	7:00AM-5:30PM
Wednesday, August 7	7:00AM-5:30PM
Thursday, August 8	7:00AM-5:00PM

#### **Meeting Room Protocol**

Every effort will be made to ensure that all sessions start and end on time. Presenters and attendees are all asked to work together to achieve this. This may mean having to cut short a valuable discussion; however, conference organizers request your cooperation for the benefit of all attendees. Please turn your cell phone and other noise-making devices off or set it to vibrate.

#### **Student and Track Leader Awards**

#### Akiyama Medal

#### **Best Student Award in ICONE Student Competition**

At every ICONE conference, the Akiyama Medal is presented to the best paper award winner from the student paper competition of ASME, CNS, and JSME. The award was established in memory of Prof. Mamoru Akiyama (1935–2009). Prof. Akiyama was a professor emeritus at the Department of Nuclear Engineering at the University of Tokyo, and he was one of the founding members of the ICONE conference.

#### **Student Awards**

Five "Best Paper" and five "Best Poster" awards in each of the following regions will be presented during this session: North America, Japan/Asia, China, and Europe.

#### Journal Editor Award- Igor Pioro, Ontario Tech

#### **NED Service Award**

The Nuclear Engineering Division presents the NED Service Award to the following individuals in recognition of their efforts in organizing ICONE31.







Guoqiang Wang, Pacific Northwest National Laboratory Asif Arastu Michal Kuna, ČEZ





# ICONE31 31st International Conference on Nuclear Engineering

#### **ICONE Long Service Award**



Ivo Kljenak, PhD., Institut Jozef Stefan, Slovenia

Ivo Kljenak has been active in the field of severe accidents in light water reactors since 1995. His main interests have been related to containment phenomena (hydrogen distribution and combustion, as well as aerosol behaviour). He has also been

involved in research on phenomena in the reactor pressure vessel (reactor core melt behaviour in the lower plenum). In both topics, he was involved in the early use of description on the local instantaneous scale. Currently, he is involved in European projects related to severe accidents, including the use of artificial intelligence to enable the development of a severe accidents simulator.



Dr. Prof. Xiaojing Liu Shanghai Jiao Tong University (SJTU)

Dr. Prof. Xiaojing Liu is the Vice Dean/Professor of the College of Smart Energy at Shanghai Jiao Tong University (SJTU). He is the Yangtze River Scholar and National Science Fund for Outstanding Young Scholars in China. He serves as a board member of the Nuclear Reactor Thermal-Hydraulics Division of the

Chinese Nuclear Society, editor of Nuclear Science and Techniques. He obtained his Ph.D. degree from SJTU in 2010, and he was a postdoctoral fellow at the Karlsruhe Institute of Technology (KIT) in Germany from 2012 to 2013. He is the director of the Shanghai integrating innovation center for digital reactors, leader of the Innovative Nuclear System Laboratory (INSL) in SJTU and has long been engaged in research on advanced and digital nuclear energy systems. Currently, he has published over 200 papers in renowned journals such as Applied Energy, Energy Conversion and Management, and Annals of Nuclear Energy.

He started to attend International Conference on Nuclear Engineering (ICONE) from 2005 in Beijing when he was a graduate student. After that, he has deeply involved in ICONE conference as active author and reviewer. In the last ten years, he submitted over fifty papers and reviewed hundreds of manuscripts for ICONE. He served as session chair/track leader/workshop organizer of ICONE over twenty times. This year he serves as TPC co-chair of ICONE31.



Mr. Kenichi SATO Chief Project Manager, Hitachi-GE Nuclear Energy, Ltd. (until October 2023)

He graduated Kyushu University Nuclear Engineering Department in March 1986 and joined Hitachi, Ltd. He had been assigned in Nuclear Power Plant Engineering Department in Hitachi

Works, Nuclear Systems Division (NSD) from 1986 to 2005. He was in charge of safety systems design and safety related studies including Probabilistic Safety Assessment and Severe Accident Analysis, and he was promoted to Senior Engineer in Nuclear Reactor Engineering Section in the department in 2000. After spending about two years at Headquarter of Hitachi, Ltd. in Tokyo (NSD had been changed to Hitachi-GE Nuclear Energy, Ltd. (Hitachi-GE) in 2007), he moved to United States for an assignment at newly created Joint Venture with General Electric, GE Hitachi Nuclear Energy for about three years. After joining several global projects, he then moved to United Kingdon to manage UK ABWR Generic Design Assessment from 2013 to 2019, where Hitachi-GE obtained the first clearn Design Acceptance Certificate from Office for Nuclear Regulation with the shortest duration. He reruned to Japan in March 2019 and has been assigned to develop BWRX-300.

#### **Contributions to past ICONE Conferences:**

#### **Track Leaders:**

ICONE-12 (2004): Track 5 Safety and Security ICONE-13 (2005): Track 5 Safety and Security ICONE-14 (2006): Track 6 Safety and Security ICONE-15 (2007): Track 6 Safety and Security ICONE-16 (2008): Track 6 Safety and Security

#### **Organizing Committee Members:**

ICONE-11 (2003): Assistant Technical Program Chair ICONE-28 (2021): Steering Committee member ICONE-29 (2022): Steering Committee member ICONE-30 (2023): Steering Committee member



#### Workshops

All workshops will be held on Sunday, August 4.

#### 9:00AM-4:30PM

#### **CFD (Computational Fluid Dynamics)**

The CFD seminar will target young researchers and engineers to provide the basis and results for selection of several CFD applications for certain thermal-hydraulic problems. Wide variety knowledge and up-to-date information on CFD will be presented by international CFD specialists. The presentations may begin with the fundamental equations and numerical solution methods, and then continue to recent developments and some practice guidelines of CFD for nuclear engineering applications. Informal discussions and questions will be conducted.

Chair: Yassin Hassan, Texas A&M University Co-Chair: Wenxi Tian, Xi'an Jiaotong University Co-Chair: Hiroyuki Yoshida, JAEA

#### **Speakers:**

Yassin Hassan, Texas A&M University Wenxi Tian, Xi'an Jiaotong University Hiroyuki Yoshida, JAEA Elia Merzari, Penn State University Guangliang Chen, Harbin Engineering University Sofiane Benhamdouche, EDF

#### 9:00AM-4:30PM

### Thermal Hydraulic Methods, Experimentation, and Safety Analysis

This workshop will present an overview of some of the key Thermal-Hydraulic methodologies, experimentation procedure, and its application to nuclear power plants. The relevant computer code model and theory will be described, and real experimental work will be presented and discussed. Meanwhile, computer code simulations of experiments and benchmarking will both be presented. For exchanging information and experience purposes, this workshop is applicable to both students/professors and engineers in the relevant industry fields.

Chair: Guoqiang Wang, Pacific Northwest National Laboratory Co-Chair: Liangming Pan, Chongqing University

#### **Speakers:**

Guoqiang Wang, Pacific Northwest National Laboratory Liangming Pan, Chongqing University Akiko Kaneko, University of Tsukuba Ivan Otic, Karlsruhe Institute of Technology Shripad Revankar, Purdue University Xiong Jinbiao, Shanghai Jiao Tong University Asif Arastu, Unisont Engineering, Inc. Kral Pavel, UJV Rez



#### 1:30PM-5:00PM

#### **Nuclear Codes & Standards**

This workshop will promulgate an open technical exchange of information and sharing of lessons learned in response to current codes and standards' needs. All interested stakeholders will contribute toward the development and modification of codes, standards, and conformity assessment activities and help identify international collaboration efforts.

Chair: Dale Matthews, Framatome

Co-Chair: Shi Wei, Shanghai Nuclear Engineering Research and Design Institute

Co-Chair: Keiji Matsunaga, Toshiba ESS

#### **Speakers:**

**Bob Keating** Shi Wei, Shanghai Nuclear Engineering Research and Design Institute Keiji Matsunaga, Toshiba ESS Makoto Nakajima, Mitsubishi Heavy Industries Pascal Durant, Framatome

#### 9:00AM-4:30PM

#### Advanced Technology-Artificial Intelligence (AI), Advanced Manufacture (AM), & High-Performance Computing (HPC) in Nuclear Engineering

This workshop will cover Advanced Technology such as Artificial Intelligence (AI), Advanced Manufacture (AM), & High-Performance Computing (HPC) used in Nuclear Engineering. The topics include AI methods in handling and processing large data, and decision making, advanced manufacturing employed for nuclear components such as heat exchangers, and reactor cores, high-performance computing to simulate reactor dynamics, and integrated systems.

Chair: Jovica Riznic, Canadian Nuclear Safety Commission Co-Chair: Tan Sichao, Harbin Engineering University Co-Chair: Kimitoshi Yoneda

#### Speakers:

Jiejuan Tong, Tsinghua University Atsushi Ui, CRIEPI (Central Research Institute of Electric Power Industry) Longxiang Zhu, Chongqing University Chen Hao, Harbin Engineering University Paul Cheng, FuseRing

#### 9:00AM-12:30PM

#### **Verification & Validation Activities in Nuclear Systems**

Verification and validation (V&V) are part of the development process and are directly related to the quality assurance (QA) process. V&V include a strong element of checking and leads to remedial action. Verification and validation are essential components of the nuclear data development process, and software package or computer code development process, since only those data or codes that have been demonstrated to accurately simulate real-life applications can be relied upon for those applications. The workshop will cover the basics of V&V methodologies, techniques, and tools used in nuclear systems that will include the code development cycle, data validation, and related topics.

Chair: Yassin Hassan, Texas A&M University Co-Chair: Yanhua Yang, Shanghai Jiao Tong University

Co-Chair: Masaaki Tanaka, JAEA

#### Speakers:

Yanhua Yang, Shanghai Jiao Tong University Sofiane Benhamdouche, EDF Shuhui Zhang, Shanghai Nuclear Engineering Research and Design Institute Elia Merzari, Penn State University Masaaki Tanaka, JAEA



#### **Opening Ceremony & Keynote**

Monday, August 5, 2024 | 8:30AM-10:00AM

#### **Opening Ceremony & Keynote Session**

Opening Ceremony Asif Arastu, Chair ICONE31 Hidehito Mimaki, C- Chair ICONE31 Jianqiao LIU, Co-Chair ICONE31

#### **Welcome Remarks**

Thomas Costabile, P.E., FASME Executive Director / CEO

WANG Shoujun, President of Chinese Nuclear Society (CNS)

Chikako Iwaki, President-elect of The Japan Society of Mechanical Engineers (JSME)

#### Leon Cizelj, Jožef Stefan Institute

Fellow ASME. Associate member of the Engineering Academy of Slovenia.

Head of Reactor Engineering Division of the Jožef Stefan Institute, Ljubljana, Slovenia (http://r4.ijs.si/en). Responsible for the strategic and operational leadership

of the division active in the field of nuclear engineering and safety of nuclear installations. Activities include research, postgraduate education, technical and scientific support to the Slovenian nuclear regulatory body and technical and scientific consulting to end users.

Full professor of nuclear engineering at the University of Ljubljana, Slovenia, Faculty of mathematics and physics.

President of the ENEN (European Nuclear Education Network www.ENEN.eu) 2016-2020 and European Nuclear Society 2022-23.

Member of the Board of Sustainable Nuclear Energy Technology Platform (www.SNETP.eu) and European Technical Safety Organization Network (www.ETSON.eu)

Member of the editorial boards of Nuclear Engineering and Design and Science and Technology of Nuclear Installations.

Ph. D. in Physics 1993, University of Ljubljana, Slovenia.

Author or coauthor of more than 950 publications more than 200 interventions in the Slovenian mainstream media (energy, nuclear energy, COVID-19 epidemics).

#### **Plenary Sessions**

Monday, August 5, 2024 | 10:30AM-12:00PM

#### **Current Status of Nuclear Power**

The Plenary is on the current status of nuclear power, including the operating reactors built since 1970s, new constructions, new designs including advanced reactors, nuclear power share in electricity production, nuclear industry initiatives, challenges, and opportunities

Chair: Shripad Revankar, Purdue University Co-Chair: Suyuan Yu, Tsinghua University

Co-Chair: Hidehito Mimaki, Mitsubishi Heavy Industries

Co-Chair: Rosa Lo Frano, Pisa University

#### Speakers:

Hongxing Yu, Nuclear Power Institute of China Satoru Yasuraoka, Agency for Natural Resources and Energy, METI

#### Tuesday, August 6, 2024 | 8:30AM-10:00AM

#### **The Future of Nuclear Power**

The plenary on the future of nuclear power examines the roles of nuclear power in energy production in the future to address global warming, new designs, and capability to cater new demands in energy including non-applications, varied applications of nuclear power including propulsion and transport, chemical and hydrone production, and integrated system with renewables.

Chair: Yassin Hassan, Texas A&M University Co-Chair: Sichao Tan, Harbin Engineering University Co-Chair: Tomio Okawa, The University of Electro-Communications

Co-Chair: Guoqiang Wang, Pacific Northwest National Laboratory

#### **Speakers**

Shi Wei, Shanghai Nuclear Engineering Research and Design Institute Hideki Masui, JAIF (Japan Atomic Industrial Forum) Jiří Duspiva, Czech Nuclear Society



#### Tuesday, August 6, 2024 | 10:00AM-12:00PM

#### Small Modular Reactor - Global Perspective

The plenary on Small Modular Reactor - Global Perspective examines SMR development, types of SMRs, international collaborations, construction potentials, economic impacts, and SMR applications.

Chair: Leon Cizelj, Jožef Stefan Institute Co-Chair: Xiaojing Liu, Shanghai Jiao Tong University Co-Chair: Kimitoshi Yoneda, CRIEPI (Central Research Institute of Electric Power Industry) Co-Chair: Jovica Riznic, Canadian Nuclear Safety Commis-

sion

#### **Speakers:**

Igor Pioro, OntarioTech University Liu Baoting, CGN Clean Energy Technology Hiroyuki Sato, JAEA Petr Vácha, UJV Řež

#### **Panels**

#### **Construction of New Nuclear Plants**

Tuesday, August 6, 2024 | 3:00PM-4:30PM

The panel will delve into the intricate processes and challenges involved in building these complex facilities. Experts will discuss various construction methodologies, safety protocols, and technological advancements shaping the future of nuclear power plant development. Key topics include project management strategies, regulatory considerations, and environmental impacts associated with nuclear power plant construction.

Chair: Brian Fant, Bechtel Corporation Co-Chair: Yuxiang Wu, China National Nuclear Corporation/China Nuclear Power Engineering Co., Ltd.

#### Speakers:

Sam Peach, Bechtel Corporation Yuxiang Wu, China National Nuclear Corporation/China Nuclear Power Engineering Co., Ltd. Petr Závodský, ČEZ EDUI

#### Women in Nuclear Engineering

Tuesday, August 6, 2024 | 3:00PM-4:30PM

In this panel session of Women in Nuclear Engineering, female engineers, scientists and other experts will talk and discuss their roles in the nuclear industry. They are working in nuclear energy and technology fields and helping to empower the next-generation nuclear workforce around the globe.

Chair: Rosa Lo Frano, University of Pisa

Co-Chair: Puzhen Gao, Harbin Engineering University

Co-Chair: Chikako Iwaki, Toshiba ESS

#### Speakers:

Puzhen Gao, Harbin Engineering University Naoko Inoue, JAEA Larisa Dubská, ČNS – WIN Yongmei Wang, Nuclear Industry College



#### **Nuclear-Renewable Integrated Systems**

Wednesday, August 7, 2024 | 10:30AM-12:00PM

The panel will focus on the integration of nuclear energy with renewable energy. The nuclear energy being a base load will complement intermittent renewable energy in providing demand-based power supply. The systems development activities, configurations, demonstrations, safety, challenges, and opportunities are explored in this panel.

Chair: Shripad Revankar, Purdue University Co-Chair: Dalin Zhang, Xi'an Jiaotong University

#### Speakers:

Shripad Revankar, Purdue University Dalin Zhang, Xi'an Jiaotong University Aleš Doucek, UJV Řež Yan Xing, JAEA of the commercial and technical challenges faced in ATF development.

Chair: Guoqiang Wang, PNNL

Co-Chair: Xiaomei Li, China Institute of Atomic Energy

Co-Chair: Fumiaki Inoue, Toshiba ESS

#### **Speakers:**

Jorie Walters, Westinghouse Karl Buchanan, Framatome Ke Shen, Hunan University Shinichiro Yamashita, JAEA Fumiaki Inoue, Toshiba ESS Jan Klouzal, UJV Rez

#### **Advanced Manufacturing**

Wednesday, August 7, 2024 | 1:00PM-2:30PM

#### **Robust Fuel Development**

Wednesday, August 7, 2024 | 10:30AM-12:00PM

The development of Robust or Accident Tolerant Fuel (ATF) has become an international area of interest and effort in the last few years. Conceptually, ATF would provide leapahead improvement in LWR fuel safety during beyond design basis accidents and commercial benefit to nuclear utilities.

Accelerated by the severe accident at the Fukushima Daiichi nuclear power plant in Japan, a variety of research and commercial analysis of ATF is presently underway globally.

The goal of this effort is insertion of ATF lead test rods and assemblies into a commercial PWR. This panel will present and discuss the state-of-art knowledge of ATF from the point of view of industry, government, nonprofit research agencies, and academic representatives currently leading global ATF development. The significant challenges in development and implementation of ATF, such as large-scale ATF fabrication, acceptance by nuclear utilities, the role of government and inter-government agencies in ATF research oversight, and the engineering and scientific challenges to develop ATF will be presented. The goal of this panel is to communicate the current understanding

Advanced Manufacturing technologies have the capability to significantly improve the cost, schedule, and quality associated with manufacturing nuclear components. This panel will feature presentations from panelists that are leading work around the world to progress the development of Advanced Manufacturing technology.

Chair: Thomas Vogan, Sargent & Lundy
Co-Chair: Dale Matthews, Framatome
Co-Chair: Lu Oi, Nuclear Power Institute of C

Co-Chair: Lu Qi, Nuclear Power Institute of China Co-Chair: Yasutaka Banno, Mitsubishi Heavy Industries

#### Speakers:

Karl Buchanan, Framatome Paul Cheng, FuseRing Dale Matthews, Framatome Tianfu Li, China Institute of Atomic Energy Yasutaka Banno, Mitsubishi Heavy Industries Josef Strejcius, Research Center Řež Thomas Garnier, Framatome



#### **Nuclear Energy for Non-Power Generation**

Wednesday, August 7, 2024 | 1:00PM - 2:00PM

The panel on Nuclear Energy for Non-Power Generation will focus on a variety of nuclear energy applications, including transport, heating, chemical, and hydrone production, and integrated systems with renewables.

Chair: Frank Michell

Co-Chair: Jian Li, Tsinghua University

Co-Chair: Maury Pressburger, Sargent & Lundy

#### **Speakers:**

Gilles Rodriguez Jan Klouzal, UJV Rez Rosa Lo Frano, University of Pisa Hiroyuki Sato, JAEA

#### Fukushima-Daiichi Panel

Wednesday, August 7, 2024 | 1:00PM-2:30PM

This panel will discuss the current status, lessons learned, and actions of the post–Fukushima Daiichi accident.

Chair: Tadashi Narabayashi, Tokyo Institute of Technology Co-chair: Yassin Hassan, Texas A&M University Co-chair: Leon Cizelj, Jozef Stefan Institute

#### **Speakers:**

Kenji Takeshita, Tokyo Institute of Technology Shinya Mizokami, Tokyo Electric Power Company Holdings Leon Cizelj, Jozef Stefan Institute

#### **Nuclear Applications in Space**

Thursday, August 8, 2024 | 1:00PM - 2:30pm

This panel will focus on Nuclear Applications in Space. As known, nuclear-based systems can have less mass than solar cells of equivalent power, allowing more compact spacecraft that are easier to orient and direct in space. In the case of crewed spaceflight, nuclear power concepts that can power both life support and propulsion systems may reduce both cost and flight time.

Chair: Hitesh Bindra, Purdue University

Co-Chair: Zhenchao Liu, Xi'an Jiaotong University

#### **Speakers:**

Hitesh Bindra, Purdue University Dongfeng Chen, China Institute of Atomic Energy Asif Arastu, Unisont, Inc Eric Proust, CEA, France

#### **SMRs and Advanced Reactors**

Thursday, August 8, 2024 | 1:00PM-2:30PM

This panel will consist of seven global nuclear technology leaders in advanced and small modular reactors. They will present and discuss technology development progress and status on SMR, advanced reactors, High Temperature Gas Cooled (HTGC) Reactor, and other advanced reactor technologies.

Chair: Jovica Riznic, Canadian Nuclear Safety Commission Co-Chair: Xiang Wang, Harbin Engineering University Co-Chair: Kazuaki Kito, Hitachi-GE Nuclear Energy

#### **Speakers:**

Xiang Wang, Harbin Engineering University Kazuaki Kito, Hitachi-GE Nuclear Energy David Harut, Research Center Řež Igor Pioro, Ontario Tech Daniel Klein, EPRI



#### **Technical Sessions**

			31
Time	Title	Room	Technical Presentation Only: ICONE31-132637
8:30AM - 10:00AM	ICONE Opening and Keynote Session	Congress Hall 2, Lower Level	Shuhei Matsunaga - Hitachi-GE Nuclear Energy, Ltd.
10:00AM - 10:30AM	Refreshment Break	Congress Hall Foyer, Lower Level	Fluid-Structure-Soil Interaction Study for Nuclear Fact With Large Pool Water Considering Nonlinear Structu Behavior
10:00AM - 4:00PM EXP	EXPO Open	Congress Hall Foyer, Lower Level	Technical Paper Publication: ICONE31-133230
			Yuki Sato - JGC Corporation
•	Plenary Session 1:	Congress Hall 2, Lower Level	Dan M. Ghiocel - Ghiocel Predictive Technologies, Inc.
	Current Status of		Shunji Kataoka - JGC Corporation
	Nuclear Power		Yasutomi Morimoto - JGC Corporation
12:00PM - 1:00PM	Ticketed Lunch	Atrium Restau-	
1:00PM - 2:30PM	ICONE Technical	rant See App for specif-	Using Radius of Gyration in Order to Determine Surro Mechanical Properties of a Porous Structure
	Session	ic locations	Technical Paper Publication: ICONE31-133321
2:30PM - 3:00PM	Refreshment Break	Congress Hall	Oksana Shiman - CNL
	& Poster Session	Foyer, Lower Level	Michel Gaudet - CNL
3:00PM - 4:30PM	ICONE Technical Session	See App for specific locations	Enhancing Image Quality in Limited-Angle CT
4:45PM - 6:15PM ICONE Technical Session	ICONE Technical	See App for specif-	Reconstruction for Reactor Pressure Pipelines Detect
	Session	ic locations	Technical Paper Publication: ICONE31-133650
6:30PM - 8:00PM ICONE Welcome Reception	ICONE Welcome	,	Jintao Fu - Tsinghua University
	Reception		Jiahao Chang - Tsinghua University
MONDAY OF	12024		Yuewen Sun - Tsinghua University

#### MONDAY, 8/5/2024

10-01: Advanced Manufacturing 1

1:00PM-2:30PM - Palmovka 4 8/5/2024

Chair: Antony Hurst - Engineering Analysis Services Limited

Co-Chair: Asif Arastu - Unisont Engineering, Inc.

Co-Chair: Miltos Alamaniotis - The University of Texas at

San Antonio

Co-Chair: Emre Tatli - Westinghouse

Co-Chair: Yuan Gaihuan - State Nuclear Baoti Zirconium

**Industry Company** 

Co-Chair: Yasuhiro Ishijima - Japan Atomic Energy Agency

Co-Chair: Ting Jin - CNPEC Co-Chair: Shinobu Okido - NA

Co-Chair: Wan Sun - Chognqing University

Co-Chair: Yoshinori Katayama - Toshiba Energy Systems &

**Solutions Corporation** 

Co-Chair: Akemi Nishida - Japan Atomic Energy Agency Co-Chair: Guoqiang Wang - Westinghouse Electric Co.

**Nuclear Facilities** linear Structural

**Evaluation of Material Properties for Additively** 

Manufactured Type 316l Stainless Steel

termine Surrogate ture

le CT elines Detection

Tianchen Zeng - Tsinghua University

Peng Tang - Tsinghua University

Shuo Xu - Tsinghua University

Peng Cong - Tsinghua University

A Novel Optical Chamber Design and Shielding Optimization for Application in Liquid Scintillation Counting

Technical Paper Publication: ICONE31-134157

Husheng Wang - Wuhan Second Ship Design and Research Institute

Liangzhou Zuo - Wuhan Second Ship Design and Research Institute

Yangyang Yan - Wuhan Second Ship Design and Research Institute

Hao Jiang - Wuhan Second Ship Design and Research Institute

Jie Wang - Wuhan Second Ship Design and Research Institute





### Ist International Conference on Nuclear Engineering

Introduction of the Design and Validation Program for Lower Reactor Internal Structures of Advanced Light Water Reactor Srz-1200

Technical Presentation Only: ICONE31-134938

Masayoshi Mori - Mitsubishi Heavy Industry

Shinjiro Inomata - Mitsubishi Heavy Industry

Makoto Nakajima - Mitsubishi Heavy Industry

Kazuhiro Yoshida - Mitsubishi Heavy Industry

15-01

8/5/2024 1:00PM-2:30PM - Karlin 2

Chair: Shripad Revankar - Purdue University Co-Chair: Kin Wing Wong - KTH Royal Institute of

Technology

Co-Chair: Yutong Chen - Xi'an Jiaotong University

Analyzing Flow Rate Impact on Chf Front Behavior During

Boiling Crisis in Downward Flow Boiling

Technical Paper Publication: ICONE31-124786

Shixian Wang - The University of Tokyo

Kai Wang - Sun Yat-sen University

Shuichiro Miwa - The University of Tokyo

Koji Okamoto - The University of Tokyo

Enabling Passive Scalar Wall Modelling in Large Eddy Simulation for Turbulent Flows at High Schmidt or Prandtl Numbers

Technical Paper Publication: ICONE31-130423

Kin Wing Wong - KTH Royal Institute of Technology

Ignas Mickus - KTH Royal Institute of Technology

Dmitry Grishchenko - KTH Royal Institute of Technology

Pavel Kudinov - KTH Royal Institute of Technology

Criticality and Burnup Analysis of Accident-Tolerant Fuels in High-Temperature Test Reactor

Technical Paper Publication: ICONE31-130621

Yan-Xin Chen - Institute of Nuclear Engineering and

Science, National Tsing Hua University

Shin-Rong Wu - Institute of Nuclear Engineering and Science, National Tsing Hua University

Der-Sheng Chao - Nuclear Science and Technology Development Center (NSTDC), National Tsing Hua University

Jhao-Yang Hong - Engineering and System Science,

National Tsing Hua University

Jenq-Horng Liang - Institute of Nuclear Engineering and Science, National Tsing Hua University

Design, Development and Testing of Large Diameter High

Temperature Alkaline Metal Heat Pipe

Technical Paper Publication: ICONE31-134437

Jiarui Zhang - Xi'an Jiaotong University

Chenglong Wang - Xi'an Jiaotong University

Zhixing Tian - Xi'an Jiaotong University

Kailun Guo - Xi'an Jiaotong University

Dalin Zhang - Xi'an Jiaotong University

Wenxi Tian - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

Guanghui Su - Xi'an Jiaotong University

Numerical Investigation of Postuated Steam Generator Tube Rupture Accident in a Lead-Cooled Fast Reactor

Technical Paper Publication: ICONE31-134478

Yutong Chen - Xi'an Jiaotong University

Dalin Zhang - Xi'an Jiaotong University

Zhenyu Feng - Xi'an Jiaotong University

Yue Lin - Xi'an Jiaotong University

Wenxi Tian - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

Guanghui Su - Xi'an Jiaotong University

Preliminary Study on Laser Inertial Confinement Fusion Reactor Energy Transfer

Technical Paper Publication: ICONE31-134501

Xinze Li - Xi`an Jiaotong University

Ronghua Chen - Xi`an Jiaotong University

Bingqian Zhang - Xi`an Jiaotong University

Kui Zhang - Xi`an Jiaotong University

Dalin Zhang - Xi`an Jiaotong University

Wenxi Tian - Xi`an Jiaotong University

Suizheng Qiu - Xi`an Jiaotong University

Guanghui Su - Xi`an Jiaotong University



06-01 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 1

8/5/2024 1:00PM-2:30PM - Liben 3

Chair: Thomas Vogan - Sargent & Lundy Co-Chair: Dale Matthews - Framatome

Effect of Pressure Acting on the Flaw Surface on Plastic Collapse Strength of Pipes With the Circumferential Surface Flaw

Technical Paper Publication: ICONE31-126112 Hideo Machida - Tepco Systems Corporation

Model Evaluation and Parallelization of Subchannel Analysis Code for Full-Core Pin-by-Pin Analysis Technical Paper Publication: ICONE31-133784 Zhonghao Yu - Shanghai Jiao Tong University Jinbiao Xiong - Shanghai Jiao Tong University

Research on Quality Assurance Requirements for Manufacturing Special Non Safety Items in High Temperature Gas Cooled Reactors

Technical Presentation Only: ICONE31-133177 Yanping Zhou - Tsinghua University

Progress on the Development of Dayu3d Code for Htr Thermal-Hydraulic Design and System Analysis Technical Paper Publication: ICONE31-134375

Haojie Zhang - Tsinghua University Ding She - Tsinghua University Lei Shi - Tsinghua University

Discussion on Radiation Protection for PWR Second-Loop Steam Supply Outside for Industrial Application Technical Paper Publication: ICONE31-134481 Zhuang Yaping - Shandong Nuclear Power Company Fang Yuan - Nuclear and Radiation Safety Center Fang Wu - Shandong Nuclear Power Company Zhengqiang Miao - Shandong Nuclear Power Company 07-22: Thermal-Hydraulics Research and Applications - III

8/5/2024 1:00PM-2:30PM - Palmovka 1

Chair: Guoqiang Wang - Westinghouse Electric Co.
Co-Chair: Minyun Liu - Nuclear Power Institute of China
Co-Chair: Alessandro De Angelis - University of Pisa

Transition Mechanism of Supercritical Carbon Dioxide Between Gas-Like and Liquid-Like States Technical Paper Publication: ICONE31-135342 Minyun Liu - Nuclear Power Institute of China Yansong Han - Tsinghua University Yanping Huang - Nuclear Power Institute of China

Dynamic Modeling for Compact Recuperator in Helium Gas Turbine Direct-Cycle System Technical Paper Publication: ICONE31-135619 Xuyao Geng - Institute of Nuclear and New Energy

Technology

Jie Wang - Institute of Nuclear and New Energy Technology

Modelling Melting of Concrete and Its Mixing With Corium During Molten Corium-Concrete Interaction Phenomena Using Openfoam

Technical Paper Publication: ICONE31-136086

Ilyas Khurshid - Khalifa University Yacine Addad - Khalifa University Imran Afgan - Khalifa University

Development of a Qualified Plant Nodalization for Steady State and Transient Analysis of Table Top Facility

Technical Paper Publication: ICONE31-136859

Davide Rozzia - SCK-CEN

Loukas Dikonimos Makris - POLIMI

Jan Cools - SCK-CEN

Tom Van Loy - SCK-CEN

Tim Verpoorten - SCK-CEN

Katrien Van Tichelen - SCK-CEN





A Single Channel Thermal-Hydraulic Calculation Module for PWR Pin-by-Pin Wise Coupled Calculation System

Technical Paper Publication: ICONE31-124037

Zhigang Li - Nuclear Power Institute of China

Juejie Pan - Nuclear Power Institute of China

Bangyang Xia - Science and Technology on Reactor System Design Technology Laboratory

Wei Lu - Nuclear Power Institute of China

Wenbo Zhao - Nuclear Power Institute of China

Shenglong Qiang - Nuclear Power Institute of China

09-01: Waste treatment and decontamination 8/5/2024 1:00PM-2:30PM - Palmovka 3

Chair: Anthony Hechanova - Abu Dhabi Polytechnic Co-Chair: Andrea Chierici - University of Pisa

Design and Research of Radioactive Waste Gas Treatment System for Medical Isotope Test Reactor

Technical Paper Publication: ICONE31-130479

Zhang Yongkang - Nuclear Power Institute of China

Zhang Jinsong - Nuclear Power Institute of China

Yang Huiging - Nuclear Power Institute of China

Chen Li - Nuclear Power Institute of China

Chen Yunming - Nuclear Power Institute of China

Capability for Volume Reduction of Concrete Contaminated by Radioactive Carbon Dioxide Using Rubbing

Technical Paper Publication: ICONE31-131634

Norikazu Kinoshita - Shimizu Corporation

Hitoshi Nakashima - Shimizu Corporation

Akira Saito - Shimizu Corporation

Mamoru Hanzawa - Shimizu Corporation

Yuki Sasaki - Shimizu Corporation

Kazuyuki Torii - Shimizu Corporation

Optimization Design and Application Analysis of Glass Solidification Product Container Under High Level Liquid Waste Separation Strategy

Technical Paper Publication: ICONE31-135884

Ma Duo - CNNC Long'an Co., Ltd.

Wei Meng - CNNC Long'an Co., Ltd.

Wang Jing-Yang - Harbin Engineering University

Optimizing the Scale of Off-Site Emergency Decontamination Infrastructure for Nuclear Power Plants: A Case Study of Daya Bay Nuclear Power Station

Technical Paper Publication: ICONE31-135411

Hongxing Lu - Shenzhen Urban Public Safety and Technology Institute

Jinxing Hu - Chinese Academy of Sciences

Quanyi Lin - Shenzhen Technology Institute of Urban Public Safety

Faming Han - Nuclear and Radiation Safety Management Office of Shenzhen Ecological Environment Bureau

Hudie Huang - Lanzhou University

Development and Optimization Criteria of Cementitious Mortars Used for the Immobilization of ILW Radioactive Waste

Technical Paper Publication: ICONE31-136066

Francesco Rizzo - Sapienza University of Rome

Domenico Rosa - Sapienza University of Rome

Teresa Mangialardi - Sapienza University of Rome

Luca Di Palma - Sapienza University of Rome

Fabio Giannetti - Sapienza University of Rome



09-04: Radiation shielding

8/5/2024 1:00PM-2:30PM - Liben 1

Chair: Anthony Hechanova - Abu Dhabi Polytechnic Co-Chair: Sohaib Syed - Canadian Nuclear Laboratories

Development of an Integrated Point Kernel Shielding Calculation Code for Fast Three-Dimensional Radiation Field Characterization

Technical Paper Publication: ICONE31-132332

Junyi Chen - Tsinghua University Ruihan Li - Tsinghua University Jingang Liang - Tsinghua University

Radiation Shielding Study of PEEK-W and PEEK-B4C Composites

Technical Paper Publication: ICONE31-132433

Xuesong Liu - China Nuclear Power Engineering Co., Ltd.

Defeng Yang - China Nuclear Power Engineering Co., Ltd.

Xiaoxia Wang - China Nuclear Power Engineering Co., Ltd.

Layers of Protection When Adapting Advance Technologies to Enable Remote Handling of Radioactive Materials

Technical Paper Publication: ICONE31-133409 Sohaib Syed - Canadian Nuclear Laboratories

Advancement in Shielding Materials: GEANT4 Simulation of Gamma Radiation With Polystyrene-Bismuth Oxide

Technical Paper Publication: ICONE31-133740

Bashir Garba Aminu - Harbin Engineering University

Yongkuo Liu - Harbin Engineering University

Hanan Akhdar - Imam Mohammad Ibn Saud Islamic University

Shamsuddeen Lawal - Harbin Engineering University

Radiation Shielding Design for Dalian Advanced Light Source Beam Test Platform

Technical Paper Publication: ICONE31-135316

E. Dejun - Institute of Advanced Science Facilities

Liming Huang - Institute of Advanced Science Facilities

Changqi Liu - Institute of Advanced Science Facilities

Kai Tao - Institute of Advanced Science Facilities

02-01: Nuclear Fuels and Materials - I

8/5/2024 1:00PM-2:30PM - Karlin 1

Chair: Bin Du - Tsinghua University

Co-Chair: Hakan Ozaltun - U.S. Nuclear Regulatory

Commission

Co-Chair: Jiaxuan Li - Institute of Nuclear and New Energy

Technology

Oxidation Behavior and Tensile Property of Inconel 617 in the Simulation Environment of the Very-High-Temperature Reactor

Technical Paper Publication: ICONE31-130256

Bin Du - Tsinghua University

Zhiyong Liu - Tsinghua University

Huaqiang Yin - Tsinghua University

Penghui Xiao - Tsinghua University

Huang Zhang - Tsinghua University

Xuedong He - Tsinghua University

Tao Ma - Tsinghua University

Densification and Oxidation Behavior of Zirconium Carbide Produced by Spark Plasma Sintering

Technical Paper Publication: ICONE31-132169

Qisen Ren - China Nuclear Power Technology Research Institute

Lixiang Wu - China Nuclear Power Technology Research Institute

Yang Liu - China Nuclear Power Technology Research Institute

Jun Yan - China Nuclear Power Technology Research Institute

Yehong Liao - China Nuclear Power Technology Research Institute

Weiming Guo - Guangdong University of Technology

Weiqiang Liu - Tsinghua University

The Impact of Oxygen Potential on the Chemical Interaction Behavior Between Fuel Pellets and Cladding

Technical Presentation Only: ICONE31-135483

Shuilin Zhang - Sun Yat-sen University

Yingwu Jiang - Sun Yat-sen University

Jiewei Wu - Sun Yat-sen University

Muyi Ni - Sun Yat-sen University





# 31st International Conference on Nuclear Engineering

Study on the Effective Diffusion Coefficient of Inert Gases in Porous Graphite Materials

Technical Paper Publication: ICONE31-135581

Rui Nie - Tsinghua University

Yu Wang - Tsinghua University

Ziling Zhou - Tsinghua University

Weihua Zhang - Tsinghua University

Feng Xie - Tsinghua University

Hong Li - Tsinghua University

Liqiang Wei - Tsinghua University

Zhixiang Fan - Xihua University

Jia Fu - Xihua University

Qunchao Fan - Xihua University

Investigation on Oxidation Behaviors of FeCrAl Alloy Cladding Under the Simulated Loca Conditions

Technical Paper Publication: ICONE31-135966

Kang Chen - Chongging University

Zhengang Duan - Chongqing University

Qinglong Wen - Chongqing University

Ruigian Zhang - Nuclear Power Institute of China

Adsorption and Diffusion of Silver on SiC(111) and ZrC(111)

Surfaces: A First Principles Study

Technical Paper Publication: ICONE31-137055

Jiaxuan Li - Tsinghua University

Hongwei Zhu - Tsinghua University

Taowei Wang - Tsinghua University

Zelin Gao - Tsinghua University

Xiaotong Chen - Tsinghua University

Gang Xu - Tsinghua University

Bing Liu - Tsinghua University

Yaping Tang - Tsinghua University

04-01: SMRs, Advanced Reactors, and Fusion

8/5/2024 1:0 PM-2:30PM - Karlin 3

Chair: Rosa Lo Frano - University of Pisa

Research on Pressure Suppression and Against Hydrogen

Risk of the SMR in Floating Nuclear Power Plants

Technical Paper Publication: ICONE31-130396

Jialei Chen - North China Electric Power University

Xuefeng Lyu - North China Electric Power University

Jiayu Zhang - North China Electric Power University

Shengfei Wang - North China Electric Power University

Houjian Zhao - North China Electric Power University

Fang Liu - North China Electric Power University

Yu Yu - North China Electric Power University

Analysis of SMR Reactor Coolant System in Apros

Technical Paper Publication: ICONE31-131299

Ye Zhu - Nuclear Power Institute of China

Wang Xinbo - Nuclear Power Institute of China

Liao Xianwei - Nuclear Power Institute of China

Cai Zhiyun - Nuclear Power Institute of China

Liu Minghao - Nuclear Power Institute of China

Analysis of Communication Requirements for the "Intelligent Operation and Maintenance System" of Mobile

Small Reactors

Technical Paper Publication: ICONE31-131270

Fangxiaozhi Yu - China Nuclear Power Engineering Co., Ltd.

Hao Dong - China Nuclear Power Engineering Co., Ltd.

Analysis of Coordinated Development Between SMR and

Papermaking Industry in China

Technical Paper Publication: ICONE31-132055

Ping Wang - China Nuclear Power Engineering Co., Ltd.

Research on Automatic Layout Method of Nuclear Power

Plant Equipment Based on Genetic Algorithm Technical Paper Publication: ICONE31-135851

Jincheng Su - China Nuclear Power Engineering Co., Ltd.

Xiaopan Jia - China Nuclear Power Engineering Co., Ltd.

Xiaoshan Zhao - China Nuclear Power Engineering Co., Ltd.

Dong Hao - China Nuclear Power Engineering Co., Ltd.



Status of the Light Water Small Modular Reactors Research at Oregon State University

Technical Paper Publication: ICONE31-135989 Izabela Gutowska - Oregon State University Trevor Kent Howard - Oregon State University Qiao Wu - Oregon State University Brian G. Woods - Oregon State University

08-01: Computational Fluid Dynamics (CFD) and Applications - I

8/5/2024 1:00PM-2:30PM - Palmovka 2

Chair: Yassin Hassan - Texas A&M

Co-Chair: Elia Merzari - Pennsylvania State University Co-Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Xiaobo Zeng - Harbin Engineering University

Co-Chair: Ma Yue - Tsinghua University

Assessment of CFD Methods in Simulating Flowfield in a Vane-Type Separator

Technical Paper Publication: ICONE31-132562 Xiaobo Zeng - Harbin Engineering University Yifan Xu - Harbin Engineering University Guangming Fan - Harbin Engineering University Changqi Yan - Harbin Engineering University

Numerical Simulation of Helium-Xenon Gas Recuperator With Different PCHE Channel Configurations

Technical Paper Publication: ICONE31-133282 Dong Li - Shanghai University of Electric Power Linfeng Xie - Shanghai University of Electric Power Cheng Peng - Shanghai University of Electric Power Ziyue Zhang - Shanghai University of Electric Power

Numerical Investigation on PBM Kernel Functions for the Internal Flow Field of a Steam Separator

Technical Paper Publication: ICONE31-133295

Ma Yue - Tsinghua University Liu Qianfeng - Tsinghua University Zhang Huang - Tsinghua University Luo Lantao - Tsinghua University

Numerical Study on the Vortex Movement in the Bubble Separator for Molten Salt Reactor

Technical Paper Publication: ICONE31-133597

Jiaming Li - Harbin Engineering University

Guangming Fan - Harbin Engineering University

Junyi Zhu - Xi'an Jiaotong University

Xiaobo Zeng - Harbin Engineering University

Shuai Hao - Harbin Engineering University

Simulation of Aerosol Transport Under Spray Control Measures for Floating Reactor Accidents

Technical Paper Publication: ICONE31-134353

Zhe Liu - China Institute for Radiation Protection

Ning Wang - China Institute for Radiation Protection

Yapeng Yang - China Institute for Radiation Protection

Numerical Simulation Study of Flow and Heat Transfer Characteristics of Asymmetric Microchannel Intermediate Heat Exchanger

Technical Paper Publication: ICONE31-136188 Junhao Chu - Luoyang Ship Material Research Institute Zhe Xu - Luoyang Ship Material Research Institute Yanxin Zhao - Luoyang Ship Material Research Institute Xiding Wang - Luoyang Ship Material Research Institute Wei Wang - Luoyang Ship Material Research Institute Xinhe Liu - Luoyang Ship Material Research Institute Dong Zeng - Luoyang Ship Material Research Institute Wen Fu - Luoyang Ship Material Research Institute

Peiyue Li - Luoyang Ship Material Research Institute





# 31st International Conference on Nuclear Engineering

05-01: Probabalistic Safety and Risk Assessment

8/5/2024 1:00PM-2:30PM - Karlin 4

Chair: Fredrick McCrory - Sandia National Laboratories

Co-Chair: Alessandro Petruzzi - Nuclear and Industrial Engineering

Co-Chair: Dmitry Gris

Co-Chair: Dmitry Grishchenko - KTH Royal Institute of

Technology

Co-Chair: Scott Sanborn - Sandia National Laboratories

Co-Chair: Takeshi Yamada - Hitachi-GE Nuclear Energy,

Ltd.

Co-Chair: Tomohiko Ikegawa - Hitachi Co-Chair: Hideki Horie - Toshiba Corp.

Co-Chair: Patrick Frias - U.S. Department of Energy

Co-Chair: Hongxing Yu - Nuclear Power Institute of China

Co-Chair: Si-chao Tan - Harbin Engineering University Co-Chair: Ronghua Chen - Xi'An Jiao Tong University

Co-Chair: Songtao Ji -

Co-Chair: Brian Fant - Bechtel

Comparison of Different Methods to Parameterize Errors

in Inverse Modeling of Atmospheric Emissions

Technical Paper Publication: ICONE31-134601

Xinwen Dong - Tsinghua University

Yuhan Xu - Tsinghua University

Shuhan Zhuang - Tsinghua University

Hao Hu - Tsinghua University

Sheng Fang - Tsinghua University

Analysis of Common Cause Events in Multiple Reactor Site Initiation Events

Technical Paper Publication: ICONE31-134811

Wanxin Feng - North China Electric Power University

Zecong Li - North China Electric Power University

Yu Yu - North China Electric Power University

Fenglei Niu - North China Electric Power University

The Influence of Seasonal Variation on AP1000 Reliability Under Loop Accident

Technical Paper Publication: ICONE31-135100

Guanyu Liu - North China Electric Power University

Mingzhu Zhang - North China Electric Power University

Bingbing Wang - North China Electric Power University

Yu Yu - North China Electric Power University

Niu Fenglei - North China Electric Power University

Comparative Study of Cluster Analysis Methods in Dynamic Safety Analysis of Nuclear Power Plants

Technical Paper Publication: ICONE31-135943

Mohamedelmogtabh Omer Elfadni Suliman - Harbin

**Engineering University** 

He Wang - Harbin Engineering University

Binfu Xiong - Harbin Engineering University

Research on Dynamic Event Tree Analysis Method

Considering Spar-H

Technical Paper Publication: ICONE31-136092

Nianchun Qu - Harbin Engineering University

He Wang - Harbin Engineering University

01-01: Nuclear Plant Operation, Modification, Life Extension, Maintenance and Life Cycle - I

8/5/2024 1:00PM-2:30PM - Florenc 2

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Eduard Diaz - Technische Universität Dresden

Co-Chair: Ze Xi - Tsinghua University

Co-Chair: Koji Yamada - Chubu Electric Power Co., Inc.

Radiation Field and Dose Assessment of Pressure Vessel

Opening Operation for HPR1000

Ltd.

Technical Paper Publication: ICONE31-130579

Ya Xu - China Nuclear Power Engineering Co., Ltd.

Yingnan Tian - China Nuclear Power Engineering Co., Ltd.

Yedi Chang - China Nuclear Power Engineering Co., Ltd.

Jingyi Shen - China Nuclear Power Engineering Co., Ltd.

Aijun Mi - China Nuclear Power Engineering Co., Ltd.

Yawei Mao - China Nuclear Power Engineering Co., Ltd.

Xiaoxia Wang - China Nuclear Power Engineering Co., Ltd.

Bingheng Wang - China Nuclear Power Engineering Co.,

Siyang Xie - China Nuclear Power Engineering Co., Ltd.



Impact Assessment of the Integration of a Large-Scale Hydrogen Cogeneration Facility Into a VVER Power Plant

Technical Paper Publication: ICONE31-130640

Eduard Diaz-Pescador - Technische Universität Dresden

Marco Viebach - Technische Universität Dresden

Florian Gamaleja - Technische Universität Dresden

Antonio Hurtado - Technische Universität Dresden

The Status and Trend of In-Situ Gamma-Spectrometry Technology in Measuring Sedimentary Source Terms in Pressurized Water Reactors

Technical Paper Publication: ICONE31-131787

Fuhai Li - Suzhou Nuclear Power Research Institute Co., Ltd

Weijiang Liang - Daya Bay Nuclear Power Operations and Management Co., Ltd.

Xinming Huang - Daya Bay Nuclear Power Operations and Management Co., Ltd.

Genxian Lin - Suzhou Nuclear Power Research Institute Co., Ltd.

Jun Fang - Suzhou Nuclear Power Research Institute Co., Ltd.

Yun Sun - Suzhou Nuclear Power Research Institute Co., Ltd.

Zhaohui Tian - Suzhou Nuclear Power Research Institute Co., Ltd.

Canshuai Liu - Suzhou Nuclear Power Research Institute Co., Ltd.

Preliminary Study on Endoscopic Ultrasound System for In-Service Inspection of Helical-Tube Once-Through Steam Generator

Technical Paper Publication: ICONE31-131874

Ze Xi - Tsinghua University

Xiangang Wang - Tsinghua University

Xiaowei Luo - Tsinghua University

Junjie Zhou - Tsinghua University

Lei Song - Tsinghua University

Research on Hydrogen Production Technology of China Fast Reactor (CFR1000)

Technical Paper Publication: ICONE31-132454

Zhiwen Dai - Xiapu Nuclear Power Corporation (China National Nuclear Power Corporation

15-02

8/5/2024 3:00PM-4:30PM - Karlin 2

Chair: Shripad Revankar - Purdue University

Co-Chair: Stepan Jedlan - Czech Technical University in

Prague

Co-Chair: Haoming Dou - Tsinghua University

Analysis of Different Initial Droplet Parameters on the Motion Behavior of Multi Droplets

Technical Paper Publication: ICONE31-132390

Zhanwei Liu - Tsinghua University

Wen He - Tsinghua University

Yanlin Li - Tsinghua University

Zhiyuan Sun - Tsinghua University

Hanliang Bo - Tsinghua University

Properties of Irradiated Additively Manufactured 316l Steel for In-Core Applications – Mechanical and Microstructural Analyses

Technical Paper Publication: ICONE31-133131

Stepan Jedlan - Czech Technical University in Prague

Martin Sevecek - Czech Technical University in Prague

Josef Hodek - COMTES FHT a.s.

Antonin Prantl - COMTES FHT a.s.

Iaroslav Soltes - Research Center Rez. s.r.o.

Alica Fedorikova - Research Center Rez, s.r.o.

Michael Sovadina - Research Center Rez, s.r.o.

Investigations on the Debris Bed Formation Behavior of the Heated Solid Particles

Technical Paper Publication: ICONE31-133165

Wenbin Zou - Shanghai Jiao Tong University

Zhaoran Liu - School of Mechanical Engineering

Lili Tong - Shanghai Jiao Tong University

Xuewu Cao - Shanghai Jiao Tong University

Control Study for Automatic Startup of a Pressurizer Water Reactor Nuclear Power Plant

Technical Paper Publication: ICONE31-134529

Qi Zhang - Xi'an Jiaotong University

Wenhao Yu - Xi'an Jiaotong University

Longhao Xiao - Xi'an Jiaotong University





Peiwei Sun - Xi'an Jiaotong University Xinyu Wei - Xi'an Jiaotong University

Development of Two-Dimensional Heat Conduction Model in Subshapped Code Based on Openform

in Subchannel Code Based on Openfoam

Technical Paper Publication: ICONE31-134543

Zhengyang Dong - Xi'an Jiaotong University

Kai Liu - Xi'an Jiaotong University

Mingjun Wang - Xi'an Jiaotong University

Junmei Wu - Xi'an Jiaotong University

Wenxi Tian - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

Guanghui Su - Xi'an Jiaotong University

Development of DLOFC Accidents Calculation Function of Dayu Based on Global Direct Solution Algorithm of Flow Field

Technical Paper Publication: ICONE31-134550

Haoming Dou - Tsinghua University Minggang Lang - Tsinghua University

Ding She - Tsinghua University Han Zhang - Tsinghua University

10-02 Advanced Manufacturing 2

8/5/2024 3:00PM-4:30PM - Palmovka 4

Chair: Asif Arastu - Unisont Engineering, Inc.

Co-Chair: Emre Tatli - Westinghouse

Research and Application of Projection-Based Augmented

Reality (AR) System in Fusion Tokamak Assembly

Technical Paper Publication: ICONE31-132063

Cuicai Dong - China Nuclear Power Engineering Co., Ltd.

Hanjie Xu - China Nuclear Power Engineering Co., Ltd.

Wei Han - China Nuclear Power Engineering Co., Ltd.

Study on Application of the Single-Curvature Polyhedron Hydro-Bulging Technology in Metallic Reactor

Containment

Technical Paper Publication: ICONE31-134806

Jianling Dong - Tsinghua University

Xingcheng Huang - Jiangnan Shipyard (Group) Co., Ltd.

Ke Chen - Tsinghua University Bohao Ning - Tsinghua University Study on Influence of Braking Circuit and Stator-Rotor Structure on the Damping Characteristics of Permanent Magnet Motor

Technical Paper Publication: ICONE31-135443

Zhiyuan Ren - Tsinghua University

Hongyu Wu - Tsinghua University

He Yan - Tsinghua University

Tianjin Li - Tsinghua University

Xingzhong Diao - Tsinghua University

Calculation of Noble Gas Ion Mobility Based on SRK Gas Equation of State Under High-Pressure Conditions

Technical Paper Publication: ICONE31-135689

Jiahao Chang - Tsinghua University

Jintao Fu - Tsinghua University

Peng Tang - Tsinghua University

Haoyu Liu - Tsinghua University

Zhentao Wang - Tsinghua University

Zhifang Wu - Tsinghua University

Effect of Thermal Cycling on Microstructure and Mechanical Properties of T22/800H DMWs

Technical Paper Publication: ICONE31-135730

Wenwei Luo - Tsinghua University

Mengjia Hu - Tsinghua University

Xiaowei Luo - Tsinghua University

Li Shi - Tsinghua University

Xinxin Wu - Tsinghua University



06-02 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2

8/5/2024 3:00PM-4:30PM - Liben 3

Chair: Thomas Vogan - Sargent & Lundy Co-Chair: Dale Matthews - Framatome

Analysis of the Acceleration Effect of Anderson's Fixed-Point Acceleration Method in Core Neutronics Calculations

Technical Paper Publication: ICONE31-134930 Ping An - Nuclear Power Institute of China

Wei Lu - Nuclear Power Institute of China

Rui Liu - Nankai University

Zhigang Li - Nuclear Power Institute of China

Qifen Tang - Nuclear Power Institute of China

Jie Shen - Nankai University

How Can Governments Help the Private Sector Unlock the Potential of Small Modular Reactors?

Technical Presentation Only: ICONE31-134457

Rohunsingh Sam - University of Leeds

Tristano Sainati - BI Norwegian Business School

Bruce Hanson - University of Leeds

Robert Kay - University of Leeds

Containment Depressurization Rate Requirements for Design Basis Loss-of-Coolant Accidents

Technical Paper Publication: ICONE31-135279

Hua Zheng - NA

Inelastic Analysis and Evaluation Method of High-Temperature Components Based on the Material Data of Incoloy 800H in ASME III-5

Technical Presentation Only: ICONE31-135159

Sixuan He - Tsinghua University

Heng Peng - Tsinghua University

Li Shi - Tsinghua University

Xinxin Wu - Tsinghua University

Research on International Standardization Cooperation and Competition Analysis in Nuclear Field, Taking the United States and France as Examples

Technical Paper Publication: ICONE31-135727

Shangyuan Liu - China Institute of Nuclear Industry Strategy

Wei Wei - China National Nuclear Corporation

Jiang Li - China Institute of Nuclear Industry Strategy

Ruiyuan Deng - China Institute of Nuclear Industry Strategy

07-02: Experiments and Analyses - I

8/5/2024 3:00PM-4:30PM - Palmovka 1

Chair: Luke Placzek - Pacific Northwest National Laboratory

Co-Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Jiahui Zhang - Harbin Engineering University

Experimental Investigation of the Effect of PCS on Hydrogen Stratification Behaviour in Large Enclosed Spaces

Technical Paper Publication: ICONE31-130962

Jiahui Zhang - Harbin Engineering University

Gao Li - China Nuclear Power Engineering Co., Ltd.

Hu Yangxing - Harbin Engineering University

Hu Zongwen - China Nuclear Power Engineering Co., Ltd.

Hua Yongzhen - China Nuclear Power Engineering Co., Ltd.

Sun Zhongning - Harbin Engineering University

Zhang Nan - Harbin Engineering University

Pre-Test Analysis of a PLOFA Scenario for the Circe-Thetis Facility by Means of Coupled STH/CFD Calculations

Technical Paper Publication: ICONE31-133058

Pietro Stefanini - University of Pisa

Andrea Pucciarelli - University of Pisa

Nicola Forgione - University of Pisa

Ivan Di Piazza – ENEA





# 31st International Conference on Nuclear Engineering

Design and Experimental Verification of Passive Residual Heat Removal System for an Alkali-Metal Heat Pipe Cooled Reactor

Technical Paper Publication: ICONE31-133590

Hexin Wu - Xi'an Jiaotong University

Junli Gou - Xi'an Jiaotong University

Ruifeng Wang - Xi'an Jiaotong University

Leqi Yuan - Xi'an Jiaotong University

Jianqiang Shan - Xi'an Jiaotong University

Experimental Study of the Effect of Inclination Angle on the Heat Transfer Characteristics of Steam Condensation in the Vertical Tube

Technical Paper Publication: ICONE31-133818

Jiabao Liu - Harbin Engineering University

Xiaxin Cao - Harbin Engineering University

Peixun Yang - Harbin Engineering University

Thermal Hydraulics Simulation of a Typical Pressurized Water Reactor Coolant System Using CFD Method

Technical Paper Publication: ICONE31-132452

Mingqian Zhang - China Nuclear Power Engineering Co., Ltd.

Run Lin - China Nuclear Power Design Co., Ltd.

Design and Performance Verification of Passive Core Cooling System Strainer in Nuclear Power Plants

Technical Paper Publication: ICONE31-134892

Ruolin Huang - China Nuclear Power Engineering Co., Ltd.

09-02: Waste Packages and Monitoring

8/5/2024 3:00PM-4:30PM - Palmovka 3

Chair: Anthony Hechanova - Abu Dhabi Polytechnic Co-Chair: Rosa Lo Frano - University of Pisa Dynamic Response Analysis of Nuclear Fuel Transport Package Under Actual Drop Loading

Technical Paper Publication: ICONE31-132843

Yuchen Hao - Shanghai Electro-mechanical Engineering

Bin Xu - Shanghai Electro-mechanical Engineering Institute

Xiaohong Zhang - Shanghai Electro-mechanical Engineering Institute

Wenzhao Sun - Shanghai Electro-mechanical Engineering Institute

Yulin Li - Shanghai Electro-mechanical Engineering Institute

Guang Liu - Shanghai Electro-mechanical Engineering Institute

Yan Ma - Tsinghua University

Yue Li - Tsinghua University

Musen Lin - Tsinghua University

Advanced Waste Monitoring: Field Trials of a Wireless Sensor Network for Radioactive Waste Package Integrity Assessment

Technical Paper Publication: ICONE31-133064

Andrea Chierici - Università di Pisa

Riccardo Ciolini - Università di Pisa

Rosa Lo Frano - Università di Pisa

Francesco D'errico - Università di Pisa

Welding Shut Spent Fuel Container Lid W/a Twist Technical Presentation Only: ICONE31-135283

Paul Cheng - Fusering Inc.

Corrosion of Steel in Bentonite Immersed in Highly Alkaline Solution

Technical Presentation Only: ICONE31-135912

Ryoei Nakasuga - Tokyo Denki University

Hiroyuki Saito - Tokyo Denki University

Masao Uyama - Tokyo Denki University

Reconstruction of Complex Scene Radiation Fields Based on Image Restoration Equation

Technical Paper Publication: ICONE31-135542

Hao Hu - Tsinghua University

Sheng Fang - Tsinghua University

Xinwen Dong - Tsinghua University

Yuhan Xu - Tsinghua University

Shuhan Zhuang - Tsinghua University



09-05: Radiation Protection and Dose Assessment 8/5/2024 3:00PM-4:30PM - Liben 1

Chair: Anthony Hechanova - Abu Dhabi Polytechnic Co-Chair: Andrea Chierici - University of Pisa

A Summary of Historical Evolution of Radiation Protection Policy From ICRP

Technical Paper Publication: ICONE31-134891

Yufei Huang - Tsinghua University Zongyuan Zhang - Tsinghua University

Ling Liu - Tsinghua University Yu Wang - Tsinghua University Jingni Guo - Tsinghua University

Liqiang Wei - Tsinghua University Feng Xie - Tsinghua University

Jiejuan Tong - Tsinghua University

Development of an Extra-Trees-Based Program to Calculate Gamma-Ray Exposure and Energy Absorption Buildup Factors

Technical Paper Publication: ICONE31-133464
Zhitao Chen - Harbin Engineering University
Yongkuo Liu - Harbin Engineering University
Jifeng Hu - Harbin Engineering University

Research on Inverse Reconstruction Method of Radiation Dose Distribution Based on RBF Interpolation Technical Paper Publication: ICONE31-134809

Jifeng Hu - Harbin Engineering University Yongkuo Liu - Harbin Engineering University

Zhitao Chen - Harbin Engineering University

Xinrong Qian - Harbin Engineering University

Research and First Application of 4d Radiation Dose Calculation in China

Technical Paper Publication: ICONE31-136133

Zhaoxing Liu - China Institute of Radiation Protection

Ri Zhao - China Institute of Radiation Protection

Runcheng Liang - China Institute of Radiation Protection

Jing Zhang - China Institute of Radiation Protection

Xin Liu - China Institute of Radiation Protection

Liye Liu - China Institute of Radiation Protection

SMR Spent Fuel Safety Assessments Through Development of Integrated Nuclear Fuel and Thermal Analysis Code

Technical Presentation Only: ICONE31-137567

Chansoo Lee - Seoul National University

Youho Lee - Seoul National University

02-02: Nuclear Fuels and Materials - II

8/5/2024 3:00PM-4:30PM - Karlin 1

Chair: Yasuhiro Ishijima - Japan Atomic Energy Agency Co-Chair: Hakan Ozaltun - U.S. Nuclear Regulatory

Commission

Co-Chair: Qifeng Zeng - Shanghai Nuclear Engineering

Research & Design Institute

Hydrogen Absorption Behavior of the R-SUS304ULC/Ta/Zr

Dissimilar Metal Joint Under NaOH Immersion Technical Paper Publication: ICONE31-132312

Yasuhiro Ishijima - Japan Atomic Energy Agency

Fumiyoshi Ueno - Japan Atomic Energy Agency

Hitoshi Abe - Japan Atomic Energy Agency

Takahiro Igarashi - Japan Atomic Energy Agency

Influence of Chemical Composition on the Liquid Lead-Bismuth Eutectic Corrosion Resistance of Alumina Forming Austenitic Steel

Technical Presentation Only: ICONE31-134306

Jiajian Shi - Sun Yat-sen University

Fanqiang Meng - Sun Yat-sen University

Crevice Corrosion Behaviors of Austenitic Stainless Steel Exposed to High Temperature Liquid Lead-Bismuth Eutectic

Technical Presentation Only: ICONE31-134560

Yuji Huang - Sun Yat-sen University

Fanqiang Meng - Sun Yat-sen University

Preparation and Corrosion Resistance Mechanism of Sic Composite Coatings on the Surface of Graphite Spheres for VHTR Fuel Element

Technical Paper Publication: ICONE31-134744

Hui Yang - Tsinghua University

Hongsheng Zhao - Tsinghua University





### 31st International Conference on Nuclear Engineering

Kaihong Zhang - Tsinghua University Xing Cheng - Tsinghua University Ziqiang Li - Tsinghua University

Yue Wang - Tsinghua University Bing Liu - Tsinghua University

Mechanism of Corrosion Resistance Enhancement of 2.5Al Alumina-Forming Austenitic Steel in Supercritical Carbon Dioxide

Technical Presentation Only: ICONE31-135629

Ming Shu - Tsinghua University Qin Zhou - Tsinghua University

Yongduo Sun - Nuclear Power Institute of China

Effect of Temperature and Lithium Concentration on the Out of Reactor Corrosion Property of SZA Alloys and Model Study

Technical Paper Publication: ICONE31-135893

Qifeng Zeng - Shanghai Jiao Tong University; Shanghai Nuclear Engineering Research & Design Institute Co., Ltd.

Chen Wang - Shanghai Nuclear Engineering Research & Design Institute Co., Ltd.

Ben Wang - State Nuclear Baoti Zirconium Industry Company

Junqiang Lu - Shanghai Nuclear Engineering Research & Design Institute Co., Ltd.

Cong Li - Shanghai Nuclear Engineering Research & Design Institute Co., Ltd.

Lefu Zhang - Shanghai Jiao Tong University

Shengyi Si - Nuclear Power Operations Research Institute

04-02: SMRs, Advanced Reactors, and Fusion

8/5/2024 3:00PM-4:30PM - Karlin 3

Chair: Rosa Lo Frano - University of Pisa

Development of Low-Pressure Loss Separator for Advanced BWRs

Technical Paper Publication: ICONE31-133805

Antonin Povolny - Hitachi-GE Nuclear Energy Kenichi Katono - Hitachi-GE Nuclear Energy

Naoyuki Ishida - Hitachi-GE Nuclear Energy

Kiyoshi Fujimoto - Hitachi-GE Nuzlear Energy

Kenichi Yasuda - Hitachi-GE Nuclear Energy Kazuaki Kito - Hitachi-GE Nuclear Energy

Steam-Water Two-Phase Flow Testing Under Nominal Pressure and Temperature Conditions for Natural Circulation Performance of Chimney in BWRX-300 SMR

Technical Paper Publication: ICONE31-134289

Hajime Furuichi - Hitachi-GE Nuclear Energy, Ltd.

Antonin Povolny - Hitachi-GE Nuclear Energy, Ltd.

Kenichi Katono - Hitachi-GE Nuclear Energy, Ltd.

Kenichi Yasuda - Hitachi-GE Nuclear Energy, Ltd.

Kazuaki Kito - Hitachi-GE Nuclear Energy, Ltd.

Charles Heck - Global Nuclear Fuel – Americas, LLC

Assessment of Emergency Planning Zone for Small Modular Pressurized Water Reactors Based on the Risk-Informed Methodology

Technical Paper Publication: ICONE31-134526

Mengxi Wang - China Nuclear Power Engineering Co., Ltd.

Nan Wu - China Nuclear Power Engineering Co., Ltd.

Qun Cao - China Nuclear Power Engineering Co., Ltd.

Jin Yan - China Nuclear Power Engineering Co., Ltd.

Jiaxuan Gao - China Nuclear Power Engineering Co., Ltd.

Jiemin Zhang - China Nuclear Power Engineering Co., Ltd.

Na Xue - China Nuclear Power Engineering Co., Ltd.

Numeral Research on Thermal-Hydraulic Characteristics of Pebble Bed in WCCB Blanket Under In-Box LOCA

Technical Paper Publication: ICONE31-135512

Hanlin Bai - Harbin Engineering University

Jie Cheng - Harbin Engineering University

Shuaiyu Han - Harbin Engineering University

Di Wu - Harbin Engineering University

Jianjun Wang - Harbin Engineering University

Analytical Study of Matching of Dual Compressor Modules With Turbine for Small Modular Reactors

Technical Paper Publication: ICONE31-133224

Frank Lu - The University of Texas at Arlington

Ananthkumar Jayamani - The University of Texas at Arlington

Daejong Kim - The University of Texas at Arlington

John Bolin - General Atomics

Radu Curiac - General Atomics



Hangbok Choi - General Atomics

Three-Dimensional Temperature Field Monitoring of Heat Pipe Reactor Core

Technical Paper Publication: ICONE31-134519

Shidi Wang - Xi'an Jiaotong University Youqi Zheng - Xi'an Jiaotong University Xiayu Wang - Xi'an Jiaotong University Lunhe Fan - Xi'an Jiaotong University Bowen Xiao - Xi'an Jiaotong University

01-02: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - II

8/5/2024 3:00PM-4:30PM - Florenc 2

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Pascal Duranton - Framatome Co-Chair: Bin Zhang - Sun Yat-sen University

Co-Chair: Hiroki Yada - Japan Atomic Energy Agency

Evaluation of Component Cooling System Based on Optimization Algorithm in HPR1000

Technical Paper Publication: ICONE31-130083

Yu Pei - China Nuclear Power Engineering Co., Ltd.

Hou Ting - China Nuclear Power Engineering Co., Ltd. Liu Yaguang - China Nuclear Power Engineering Co., Ltd.

Finite Element Simulation of Rupture Pressure of Alloy 690 Tubes With Defects

Technical Paper Publication: ICONE31-134269

Bin Zhang - Sun Yat-sen University

Nai Bin Jiang - Sun Yat-sen University

A Brief Introduction to Several Important Design Optimization of Passive Nuclear Power Plants in China

Technical Paper Publication: ICONE31-134488

Baisong Ma - Shandong Nuclear Power Company Ltd.

Zhengqiang Miao - Shandong Nuclear Power Company

Ltd.

Yuanhua Ma - Shandong Nuclear Power Company Ltd.

Investigation About Classification of Stresses Due to Radial Deformation Induced by Design Pressure Applied to the Tubes of Square Pitch Multi-Perforated Portion of Thick

Technical Paper Publication: ICONE31-134544

Pascal Duranton - Framatome

Marie Bernion - Framatome

Aboubakr Amzil - Framatome

Divjot Jolly - Framatome

Abdelhak Benrabia - Framatome

Tony Da Silva - EDF

Stress Intensity Factor Solutions for Circumferential Through-Wall Cracks Applicable to Pool Type Sodium Cooled Fast Reactors

Technical Paper Publication: ICONE31-134552

Hiroki Yada - Japan Atomic Energy Agency

Shigeru Takaya - Japan Atomic Energy Agency

Hideo Machida - Tepco Systems Corporation

Research on Optimization of Simulation Models Based on

Operational Data in Nuclear Power Plants

Technical Paper Publication: ICONE31-134822 Dong Shubiao - China Nuclear Power Operation

Technology Corporation, Ltd.

Zhang Xiaoyu - China Nuclear Power Operation

Technology Corporation, Ltd.

Zhang Qianping - China Nuclear Power Operation Technology Corporation, Ltd.





#### ICONE31 31st International Conference on Nuclear Engineering

08-02: Computational Fluid Dynamics (CFD) and Applications - II

8/5/2024 3:00PM-4:30PM - Palmovka 2

Chair: Yassin Hassan - Texas A&M

Co-Chair: Guoqiang Wang - Westinghouse Electric Co.
Co-Chair: Hiroyuki Yoshida - Japan Atomic Energy Agency
Co-Chair: Yu Liu - North China Electric Power University
Co-Chair: Ikhwan Khaleb - University of Michigan

Research on Fluid-Structure Coupling of Spent Fuel Storage and Transport Basket Based on Immersed Boundary Element

Technical Paper Publication: ICONE31-134466
Feifan Zhang - North China Electric Power University
Yu Liu - North China Electric Power University
Daogang Lu - North China Electric Power University
Fei Xie - North China Electric Power University

CFD Analysis of Heat Transfer in Molten Salt Fuel Chambers of the Wielenga Innovation Static Salt Reactor (WISSR)

Technical Paper Publication: ICONE31-134475
Ikhwan Khaleb - University of Michigan
Thomas Wielenga - Wielenga Innovation Foundation
Won Sik Yang - University of Michigan

Numerical Simulation of Subchannel Flow Boiling Using Five-Component Wall Boiling Model and IMUSIG Model Technical Paper Publication: ICONE31-134545 Hanwen Luo - Shanghai Jiao Tong University Hongbin Wang - Shanghai Jiao Tong University Jinbiao Xiong - Shanghai Jiao Tong University

Development of the New Crust Model for Analyzing Vulacano VBs-U3 MCCI Experiment with MPS Method Technical Paper Publication: ICONE31-134499 Takeshi Yamada - Waseda University Xin Li - Japan Atomic Energy Agency Takuya Yamasita – Japan Atomic Energy Agency Akifumi Yamaji - Waseda University Evaluation of Coolant Mixing Characteristics in the Lower Plenum of a Scaled PWR With Openfoam

Technical Paper Publication: ICONE31-134558

Lilia Djebara - Harbin Engineering University

Hongyang Wei - Harbin Engineering University

Cheng Yang - Harbin Engineering University

Sichao Tan - Harbin Engineering University

Ruifeng Tian - Harbin Engineering University

05-02: Nuclear Safety and Emergency Preparedness

8/5/2024 3:00PM-4:30PM - Karlin 4

Chair: Fredrick McCrory - Sandia National Laboratories

Co-Chair: Brian Fant - Bechtel

Co-Chair: Alessandro Petruzzi - Nuclear and Industrial

Engineering

Co-Chair: Dmitry Grishchenko - KTH Royal Institute of

Technology

Co-Chair: Scott Sanborn - Sandia National Laboratories Co-Chair: Takeshi Yamada - Hitachi-GE Nuclear Energy,

Ltd.

Co-Chair: Tomohiko Ikegawa - Hitachi Co-Chair: Hideki Horie - Toshiba Corp.

Co-Chair: Patrick Frias - U.S. Department of Energy

Co-Chair: Hongxing Yu - Nuclear Power Institute of China Co-Chair: Si-chao Tan - Harbin Engineering University Co-Chair: Ronghua Chen - Xi'An Jiao Tong University

Co-Chair: Songtao Ji -

Gas Leakage Test for Radioactive Materials Transport Package With Vibration

Technical Paper Publication: ICONE31-134287
Qian Sun - China Institute for Radiation Protection
Pengyi Wang - China Institute for Radiation Protection
Lei Chen - China Institute for Radiation Protection
Juying Bai - China Institute for Radiation Protection
Limin Jiao - China Institute for Radiation Protection
Zhipeng Wang - China Institute for Radiation Protection
Dajie Zhuang - China Institute for Radiation Protection
Hongchao Sun - China Institute for Radiation Protection



Research on the Optimization of Emergency Planning Zone Determination Based on the Weather Stratified Sampling Method

Technical Paper Publication: ICONE31-134371

Qun Cao - China Nuclear Power Engineering Co., Ltd.

Jin Yan - China Nuclear Power Engineering Co., Ltd.

Jiemin Zhang - China Nuclear Power Engineering Co., Ltd.

Mengxi Wang - China Nuclear Power Engineering Co., Ltd.

Liang Long - China Nuclear Power Engineering Co., Ltd.

Research on Decontamination Site Selection and Personnel Allocation Under Off-Site Nuclear Emergency

Hongtao Lin - China Nuclear Power Engineering Co., Ltd.

Technical Presentation Only: ICONE31-134549

Ruan Fang - University of Science and Technology of China

Chen Chunhua - Hefei Institute of Physics Science

Cheng Yuan - University of Science and Technology of China; Anhui Jianzhu University

Sun Yuanyuan - Hefei Institute of Physics Science

Research on Simulation of Emergency Evacuation Outside Nuclear Power Plants Based on Genetic Algorithm and Variable Neighborhood Search Algorithm

Technical Paper Publication: ICONE31-134621

Yan Jin - China Nuclear Power Engineering Co., Ltd.
Jiemin Zhang - China Nuclear Power Engineering Co., Ltd.
Qun Cao - China Nuclear Power Engineering Co., Ltd.
Mengxi Wang - China Nuclear Power Engineering Co., Ltd.
Liang Long - China Nuclear Power Engineering Co., Ltd.

Na Xue - China Nuclear Power Engineering Co., Ltd.

15-03

8/5/2024 4:45PM-6:15PM - Karlin 2

Chair: Shripad Revankar - Purdue University Co-Chair: Jasmine Hamelberg - Tokai University

Co-Chair: Noshi Yusuke -

Fundamental Experiment of Gas Entrainment Phenomenon From Free Liquid Surface in a Sodium-Cooled Fast Reactor

Technical Paper Publication: ICONE31-133273

Jasmine Hamelberg - Tokai University

Shunsuke Kobayashi - Tokai University

Kazuki Endo - Tokai University

Jotaro Takeda - Tokai University

Takaaki Sakai - Tokai University

Dynamic Refinement Evaluation and Criteria Optimization for Les Using Flamefoam in Turbulent Hydrogen-Air Deflagration Experiment

Technical Paper Publication: ICONE31-133301 Julius Venckus - Lithuanian Energy Institute

Mantas Povilaitis - Lithuanian Energy Institute

The Robust Development of a Thermal Hydraulic Analysis Method for Condensation Bubbles in Subcooled Flow Boiling Using Al Based Object Detection and Tracking Technique

Technical Paper Publication: ICONE31-133410

Wen Zhou - University of Tokyo

Shuichiro Miwa - University of Tokyo

Koji Okamoto - University of Tokyo

Tomio Okawa - The University of Electro-Communications

Ryoma Tsujimura - The University of Electro-

Communications

Thanh-Binh Nguyen - The University of Electro-Communications

Investigation of Compressible Flow in Natural Circulation Loops With a Non-Boussinesq Algorithm

Technical Paper Publication: ICONE31-134557

Jinsong Zhang - Tsinghua University

Yongyong Wu - Tsinghua University

Nan Gui - Tsinghua University

Zhen Zhang - Tsinghua University

Xingtuan Yang - Tsinghua University

Jiyuan Tu - RMIT University

Shengyao Jiang - Tsinghua University





# 31st International Conference on Nuclear Engineering

Study on Thermal Conductivity Model for Porous PWR Crud Depositions

Technical Paper Publication: ICONE31-134562

Yan Liu - Shanghai Jiao Tong University

Xiaojing Liu - Shanghai Jiao Tong University

Hui He - Shanghai Jiao Tong University

Tengfei Zhang - Shanghai Jiao Tong University

Xiang Chai - Shanghai Jiao Tong University

An Effect of Damage Rate on Mechanical Property Change and Microstructural Evolution in Proton-Irradiated Fe-Cu Alloys

Technical Paper Publication: ICONE31-134568

Yusuke Noshi - University of Fukui

Ken-Ichi Fukumoto - University of Fukui

Ryoya Ishigami - The Wakasa Wan Energy Research Center

Kinji Uda - The Wakasa Wan Energy Research Center

Effect of Work Environment and Performance Changes by Regulation of Nuclear Power Plant in Korea: A Survey

Technical Presentation Only: ICONE31-136158

Haehyun Lee - Korea Institute of Nuclear Safety

Young-A Suh - Korea Institute of Nuclear Safety

Sujin Jung - Korea Institute of Nuclear Safety

Comparison of K-Solutions of Rectangular Flaw With Semi-Elliptical Flaw for PWSCC Crack Growth Analysis

Technical Paper Publication: ICONE31-136517

Kiminobu Hojo - Mitsubishi Heavy Industries Ltd.

David Rudland - U.S. Nuclear Regulatory Commission

06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3

8/5/2024 4:45PM-6:15PM - Liben 3

Chair: Thomas Vogan - Sargent & Lundy Co-Chair: Dale Matthews - Framatome

Study on Nureg-2215 Regulatory Condition for Reflooding of the Previously Dried High Burnup Fuel Is Not Allowable During Dry Storage

Technical Paper Publication: ICONE31-135819 Ting-Yi Liao - National Tsing Hua University Yi-Fan Tseng - National Tsing Hua University

Kuan-Che Lan - National Tsing Hua University

Wan-June Chiu - National Atomic Research Institute

Hsiao-Ming Tung - National Atomic Research Institute

Vigorously Develop Nuclear Power to Meet the Challenge of the Rapid Growth of Electricity Consumption and Carbon Emission in the Information Industry

Technical Paper Publication: ICONE31-136091

Yingnan Li - SPIC Nuclear Energy Co., Ltd.

Fang Wu - SPIC Nuclear Energy Co., Ltd.

Te Tang - Shanghai Nuclear Engineering Research &

Design Institute Co. Ltd.

Weili Liu - SPIC Nuclear Energy Co., Ltd.

10-03: Advanced Manufacturing 3

8/5/2024 4:45PM-6:15PM - Palmovka 4

Chair: Asif Arastu - Unisont Engineering, Inc.

Co-Chair: Akemi Nishida - Japan Atomic Energy Agency Co-Chair: Antony Hurst - Engineering Analysis Services

Limited

Sigma Embrittlement Evaluation Test for Dissimilar Welding Between F6NM and FXM-19

Technical Paper Publication: ICONE31-135920

Ryoji Osafune - IHI Corporation Yoshihiro Tanabe - IHI Corporation

Daisuke Yagi - IHI Corporation

Daisuke Koike - IHI Corporation

Investigating the Effect of Supports on Reinforced Concrete Slab Subjected to Oblique Missile Impact

Technical Paper Publication: ICONE31-135948

Zuoyi Kang - Japan Atomic Energy Agency

Yukihiko Okuda - Japan Atomic Energy Agency

Akemi Nishida - Japan Atomic Energy Agency

Haruji Tsubota - Japan Atomic Energy Agency

Masaharu Itoh - Japan Atomic Energy Agency

Yinsheng Li - Japan Atomic Energy Agency



Manufacturing Challenges for Hot Isostatic Pressing of Large-Scale Vessels

Technical Paper Publication: ICONE31-136240

John Sulley - Rolls-Royce David Stewart - Rolls-Royce

Joining Fuel Rod to End Cap W/No Flaw Repeatable Technical Presentation Only: ICONE31-135340 Paul Cheng - Fusering Inc.

07-03: Experiments and Analyses - II

8/5/2024 4:45PM-6:15PM - Palmovka 1

Chair: Luke Placzek - Pacific Northwest National Laboratory

Co-Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Ruohao Wang - Harbin Engineering University

Experimental Study on Two-Phase Flow Instability in Parallel Helically Coiled Tubes Under Rolling Motion

Technical Paper Publication: ICONE31-134836 Ruohao Wang - Harbin Engineering University

Chao Qi - Shanghai Spaceflight Precision Machinery Institute

Jiaxing Ren - Harbin Engineering University

Shouxu Qiao - Harbin Engineering University

Sichao Tan - Harbin Engineering University

Ruifeng Tian - Harbin Engineering University

Experimental Study on the Sealing Performance of Core Barrel Flange for Swimming Pool-Type Low-Temperature Heating Reactor

Technical Paper Publication: ICONE31-134990

Song Yu - China Institute of Atomic Energy

Weiming Zhai - China Institute of Atomic Energy

Daoxi Cheng - China Institute of Atomic Energy

Ping Zhou - China Institute of Atomic Energy

Xiaoyao Ma - China Institute of Atomic Energy

Ruizhi Li - China Institute of Atomic Energy

Mingdi Xing - China Institute of Atomic Energy

Weilong Gao - China Institute of Atomic Energy

Experimental Study on the Vibration Characteristics of Two-Phase Flow Post Dryout in Helical Coiled Tube

Technical Paper Publication: ICONE31-135067

Ningyuan Wang - Chongqing University

Degi Chen - Chong Qing University

Zhenzhong Li - Chongqing University

Hanzhou Liu - Chongqing university

Shanshan Bu - Chongqing university

Experiment and Analysis of Small Break Loss of Coolant Accident in New Pressurized Water Reactor

Technical Paper Publication: ICONE31-135074

Changjiang Yang - China Nuclear Power Engineering Co., Ltd.

Si Ni - China Nuclear Power Engineering Co., Ltd.

Jingxiang Zhan - China Nuclear Power Engineering Co., Ltd.

Yiwa Geng - China Nuclear Power Engineering Co., Ltd.

Guangfei Wang - China Nuclear Power Engineering Co., Ltd.

Yuxiang Wu - China Nuclear Power Engineering Co., Ltd.

Di Yao - China Nuclear Power Engineering Co., Ltd.

Experimental Study on Natural Settling Characteristics of Aerosols in Containment

Technical Paper Publication: ICONE31-135097

Tao Li - Harbin Engineering University

Haifeng Gu - Harbin Engineering University

Hui Wang - China Nuclear Power Engineering Co., Ltd.

09-03: Decommissioning

8/5/2024 4:45PM-6:15PM - Palmovka 3

Chair: Anthony Hechanova - Abu Dhabi Polytechnic

Co-Chair: Daisuke Kawasaki - University of Fukui

Proposal for Organizing and Understanding
Decommissioning Information Using Task Ontology

Technical Paper Publication: ICONE31-135835

Yasuyoshi Taruta - Fukui University

Yukihiro Iguchi - Fukui University

Daisuke Kawasaki - Fukui university

Satoshi Yanagihara - Fukui University

Koichi Tomoda - Japan Atomic Energy Agency





# 31st International Conference on Nuclear Engineering

General Outline of the Decommissioning of the Prototype Fast Breeder Reactor Monju

Technical Paper Publication: ICONE31-135887 Hideharu Kobayashi - Japan Atomic Energy Agency

Keiji Naruse - Japan Atomic Energy Agency

Kazuhito Hirako - Japan Atomic Energy Agency

Hiromasa Sawazaki - Japan Atomic Energy Agency

Takehiro Goto - Japan Atomic Energy Agency

Ikuhito Obata - Japan Atomic Energy Agency

Kazuaki Matsui - Japan Atomic Energy Agency

A Study on Analysis of Actual Date in "Fugen" Decommissioning

Technical Paper Publication: ICONE31-135953

Yuya Kouda - Fugen Decommissioning Engineering Center

Yasuyuki Nakamura - Fugen Decommissioning Engineering Center

Yukihiro Iguchi - University of Fukui

Satoshi Yanagihara - University of Fukui

Application of Plasma Arc Cutting Technology in Reactor Decommissioning and Disassembly

Technical Paper Publication: ICONE31-135612

Naizhe Zhang - Tsinghua University

Weishuai Wang - Tsinghua University

Zhen Gao - China National Nuclear Industry Corporation

Hai Liu - China National Nuclear Industry Corporation

Xuegang Liu - Tsinghua University

Radiation Safety of the Personnel During Decommissioning of Maišiagala RWSF in Lithuania

Technical Presentation Only: ICONE31-134264

Ernestas Narkūnas - Lithuanian Energy Institute

Povilas Poškas - Lithuanian Energy Institute

Audrius šImonis - Lithuanian Energy Institute

Artūras šMaižys - Lithuanian Energy Institute

09-06: Waste Management and Environmental Studies

8/5/2024 4:45PM-6:15PM - Liben 1

Chair: Anthony Hechanova - Abu Dhabi Polytechnic

Co-Chair: Andrea Chierici - University of Pisa

A Policy Driven Vegetative Foodchain Model: Soil-Plant

Transfer in Chinese Organic Soil

Technical Paper Publication: ICONE31-132442

Priscilla Obeng Oforiwaa - Tsinghua University

Xiaole Zhang - Tsinghua University

Guofeng Su - Tsinghua University

Investigation of the C-14 Source Term in Repositories and

Its Migration Behavior in Buffer Materials

Technical Paper Publication: ICONE31-134283

Zhengzhe Qu - Tsinghua University

Jingni Guo - Tsinghua University

Qi Zhang - Beijing Research Institute of Uranium Geology

Yu Wang - Tsinghua University

Mengjie Wu - Tsinghua University

Feng Xie - Tsinghua University

Liqiang Wei - Tsinghua University

Jianzhu Cao - Tsinghua University

A Novel Framework for Spatiotemporally Decoupled Source Reconstruction of Radionuclides Released Into the

Atmosphere

Technical Paper Publication: ICONE31-135471

Yuhan Xu - Tsinghua University

Xinwen Dong - Tsinghua University

Shuhan Zhuang - Tsinghua University

Hao Hu - Tsinghua University

Sheng Fang - Tsinghua University

Digital Twin and Surrogate Model for Long-Term Geochemical Processes in Nuclear Waste Management

Technical Paper Publication: ICONE31-135796

Guang Hu - Paul Scherrer Institute

George-Dan Miron - Paul Scherrer Institute

Wilfried Pfingsten - Paul Scherrer Institute

Rainer Dähn - Paul Scherrer Institute



A Preliminary Study on the Transport of Critical Radionuclide Polonium in the Marine Environment After Source Term Release

Technical Paper Publication: ICONE31-134279

Junyang Zeng - Sun Yat-sen University

Yuqing Wang - Sun Yat-sen University

Minghao Zhang - Sun Yat-sen University

Muyi Ni - Sun Yat-sen University

02-03: Nuclear Fuels and Materials - III 8/5/2024

4:45PM-6:15PM - Karlin 1

Chair: Hakan Ozaltun - U.S. Nuclear Regulatory Commission

Co-Chair: Weijian Zhang - Tsinghua University Co-Chair: Yuhao Liu - Tsinghua University

Isotopic Measurement of HTR-10 Irradiated Fuels Based on Anti-Compton Gamma Spectroscopy

Technical Paper Publication: ICONE31-132758

Weijian Zhang - Tsinghua University Haiyan Xiao - Tsinghua University

Jingang Liang - Tsinghua University

Ruihan Li - Tsinghua University Liguo Zhang - Tsinghua University

Low-Cycle Fatigue Behavior of 13cr-Ods Heat Pipes at High Temperatures

Technical Presentation Only: ICONE31-133403

Yuntao Zhong - Nuclear Power Institute of China

Huansheng Lai - Sun Yat-sen University

Ruigian Zhang - Nuclear Power Institute of China

Yong Chen - Nuclear Power Institute of China

Effect of Heat Treatment on Microstructure Characteristics of Hot-Worked Zr-2.5Nb Alloy Tubes

Technical Paper Publication: ICONE31-134410

Jianming Yin - State Nuclear Baoti Zirconium Industry Company

Bo Gao - State nuclear Baoti Zirconium Industry Company

Baifeng Luan - Chongqing University
Yan Zhang - Chongqing University

Research on Uranium-Hydrogen-Zirconium Micro-Reactor Core Design

Technical Paper Publication: ICONE31-134554

Shixin Lin - Xi'an Jiaotong University

Youqi Zheng - Xi'an Jiaotong University

A Nonlocal Meso-Scale Damage Model for Nuclear Graphite

Technical Paper Publication: ICONE31-134775

Yan Ma - Tsinghua University

Yue Qian - Tsinghua University

Yuchen Hao - Shanghai Electro-mechanical Engineering Institute

Musen Lin - Tsinghua University

Yue Li - Tsinghua University

Jinhua Wang - Tsinghua University

Haitao Wang - Tsinghua University

Study on the Influence of Internal Heat Source Characteristics and Distribution on Effective Thermal Conductivity of Cylindrical Particle Dispersed Fuel

Technical Paper Publication: ICONE31-136000

Yuhao Liu - Tsinghua University

Jun Sun - Tsinghua University





04-03: SMRs, Advanced Reactors and Fusion

8/5/2024 4:45PM-6:15PM - Karlin 3

Chair: Rosa Lo Frano - University of Pisa

Design and Analysis of a Nuclear Hydrogen Production System by Methanol Reforming Using LWR (Light Water Reactor)

Technical Paper Publication: ICONE31-123745

Ruiyang Liu - Tsinghua University

Zhiyi Peng - North China Electric Power University

Huaqiang Yin - Tsinghua University Huang Zhang - Tsinghua University

Study on Parameters Design Methodology for Rolling Test

of Control Rod Hydraulic Drive System

Technical Paper Publication: ICONE31-130895

Yanlin Li - Tsinghua University Benke Qin - Tsinghua University Hanliang Bo - Tsinghua University

Multiple Knowledge Exploration Functions for Advanced Reactor Design and Safety in Knowledge Management System Implemented in the Arkadia

Technical Paper Publication: ICONE31-131784

Akiyuki Seki - Japan Atomic Energy Agency
Yuki Kondo - Japan Atomic Energy Agency
Ryuta Hashidate - Japan Atomic Energy Agency
Masanori Yoshikawa - Japan Atomic Energy Agency
Kenji Yokoyama - Japan Atomic Energy Agency
Shigeru Takaya - Japan Atomic Energy Agency
Yasuhiro Enuma - Japan Atomic Energy Agency
Taira Hazama - Japan Atomic Energy Agency
Takashi Wakai - Japan Atomic Energy Agency
Tai Asayama - Japan Atomic Energy Agency

Core Design and Neutronic Analysis of the European Sodium Fast Reactor With Metallic Fuel Technical Paper Publication: ICONE31-133069 Antonio Jiménez-Carrascosa - Paul Scherrer Institute

Konstantin Mikityuk - Paul Scherrer Institute Nicolas Stauff - Argonne National Laboratory Aydin Karahan - Argonne National Laboratory

Emil Fridman - Helmholtz-Zentrum Dresden-Rossendorf

Alexander Ponomarev - Helmholtz-Zentrum Dresden-

Rossendorf

Modeling of Carbon-Free Ammonia Plants Powered by Small Modular Reactors

Technical Presentation Only: ICONE31-147514

Hailei Wang - Utah State University

Long-Term Corrosion Behavior of Type 316 Stainless Steel Under NaCl-MgCl2 Eutectic Salt in Molten Salt Thermal

Convection Loop (MSTCL)

Technical Presentation Only: ICONE31-147502

Hyunjin Boo - Soonchunhyang University

Su Hyun Lee - Soonchunhyang University

Byung Gi Park - Soonchunhyang University

08-03: Computational Fluid Dynamics (CFD) and Applications - III

8/5/2024 4:45PM-6:15PM - Palmovka 2

Chair: Yassin Hassan - Texas A&M

Co-Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Jian Wu -

Co-Chair: Menghang Gong - Tsinghua University Co-Chair: Yizhi Tian - Harbin Engineering University

Scaled Experiment on Flow Characteristics of a Single Area of Spent Fuel Dry-Storage System of HTR-PM1000

Technical Paper Publication: ICONE31-134632

Jinhua Wang - Tsinghua University

Mengyao Wang - Tsinghua University Menghang Gong - Tsinghua University

Yue Li - Tsinghua University

Bin Wu - Tsinghua University

Wei Zhang - Tsinghua University

Lihua Gao - Tsinghua University

Tao Ma - Tsinghua University

Haitao Wang - Tsinghua University

Bing Liu - Tsinghua University



CFD Analysis of a Four-Loop Pressurized Water Reactor With Multiple Operating Conditions

Technical Paper Publication: ICONE31-134682

Yizhi Tian - Harbin Engineering University

Guangliang Chen - Haibin Engineering University

Ruojun Xue - Harbin Engineering University

Yuchen Sun - Harbin Engineering University

Jinchao Li - Harbin Engineering University

Rui Li - Harbin Engineering University

Numerical Simulation Study on Cladding Blister of Parallel Fuel Plates Under Subcooled Boiling

Technical Paper Publication: ICONE31-134729

Kexin Liu - Harbin Engineering University

Jianjun Xu - Nuclear Power Institute of China

Ming Ding - Harbin Engineering University

Xiaxin Cao - Harbin Engineering University

Numerical Analysis of Flow Field and Phase Distribution Characteristics of Subcooled Boiling Flow in the PSBT 5×5 Fuel Bundle Channel

Technical Paper Publication: ICONE31-134856

Hengji Liao - Harbin Engineering University

Xiao Yan - Harbin Engineering University

Haifeng Gu - Harbin Engineering University

Shengjie Qin - Nuclear Power Institute of China

Research on Natural Frequency Characteristics of Spiral Tube Bundles

Technical Paper Publication: ICONE31-134953

Xiaoxi Li - Harbin Engineering University

Jiming Wen - Harbin Engineering University

Puzhen Gao - Harbin Engineering University

Yibo Yin - Harbin Engineering University

05-03: Digitalization and Fault Detection

8/5/2024 4:45PM-6:15PM - Karlin 4

Chair: Fredrick McCrory - Sandia National Laboratories

Co-Chair: Brian Fant - Bechtel

Co-Chair: Alessandro Petruzzi - Nuclear and Industrial

Engineering

Co-Chair: Dmitry Grishchenko - KTH Royal Institute of

Technology

Co-Chair: Scott Sanborn - Sandia National Laboratories

Co-Chair: Takeshi Yamada - Hitachi-GE Nuclear Energy,

Ltd.

Co-Chair: Tomohiko Ikegawa - Hitachi

Co-Chair: Hideki Horie - Toshiba Corp.

Co-Chair: Patrick Frias - U.S. Department of Energy

Co-Chair: Hongxing Yu - Nuclear Power Institute of China

Co-Chair: Si-chao Tan - Harbin Engineering University

Co-Chair: Ronghua Chen - Xi'An Jiao Tong University

Co-Chair: Songtao Ji -

Convolutional Prototype Learning-Based Open Set Recognition Fault Diagnosis Method for Nuclear Power Plant Faults

Technical Paper Publication: ICONE31-132186

Jiangkuan Li - Harbin Engineering University

Meng Lin - Shanghai Jiao Tong University

Bo Wang - Harbin Engineering University

Ruifeng Tian - Harbin Engineering University

Sichao Tan - Harbin Engineering University

Fault Detection and Location Method for Nuclear Power Plant Main Systems Based on Low-Dimensional Manifolds

Technical Paper Publication: ICONE31-134341

Xin Ai - Harbin Engineering University

Yong-Kuo Liu - Harbin Engineering University

Long-Fei Shan - Harbin Engineering University

Jia-Rong Gao - Harbin Engineering University





Few-Shot Learning for Abnormal Event Detection in Nuclear Power Plants

Technical Paper Publication: ICONE31-134965

Tianhao Zhang - Tsinghua University

Chao Guo - Tsinghua University

Qianqian Jia - Tsinghua University

Xiaojin Huang - Tsinghua University

Research on Accident Diagnosis Method in Nuclear Power Plants Based on Generative Adversarial Networks and Underlying Deep Learning Networks

Technical Paper Publication: ICONE31-134996

Ben Qi - Tsinghua University

Yu Wang - Tsinghua University

Xingyu Xiao - Tsinghua University

Jingang Liang - Tsinghua University

Automatic Reading Recognition Method for Nuclear Power Digital Detection Instruments Based on Computer Vision and Deep Learning

Technical Paper Publication: ICONE31-135091

Jiarong Gao - Harbin Engineering University

Yongkuo Liu - Harbin Engineering University

Xin Ai - Harbin Engineering University

Longfei Shan - Harbin Engineering University

01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III

8/5/2024 4:45PM-6:15PM - Florenc 2

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Ji Tao Li - Tsinghua University

Co-Chair: Zhijian Wang - China Nuclear Power Engineering Co., Ltd.

Co-Chair: Ryo Morita - Central Research Institute of Electric Power Industry

The Research on Design Selection and Application of Cable in Nuclear Plant

Technical Paper Publication: ICONE31-133255

Zhijian Wang - China Nuclear Power Engineering Co., Ltd.

Study on the Locations of On-Line Monitoring of Sedimentary Source Terms in the Primary Loop of a Pressurized Water Reactor

Technical Paper Publication: ICONE31-133448

Fuhai Li - Suzhou Nuclear Power Research Institute Co., Ltd.

Weijiang Liang - Daya Bay Nuclear Power Operations and Management Co., Ltd.

Yun Sun - Suzhou Nuclear Power Research Institute Co., Ltd.

Xinming Huang - Daya Bay Nuclear Power Operations and Management Co., Ltd.

Jun Fang - Suzhou Nuclear Power Research Institute Co., Ltd.

Canshuai Liu - Suzhou Nuclear Power Research Institute Co., Ltd.

DHP: Cloud-Edge Collaborative Internet Framework for Nuclear Power Industry

Technical Paper Publication: ICONE31-134444

Min Min Cheng - China Nuclear Power Operation Technology Corporation, Ltd.

Xianying Liu - China Nuclear Power Operation Technology Corporation, Ltd.

Yinggang Jing - China Nuclear Power Operation Technology Corporation, Ltd.

Kui Xu - China Nuclear Power Operation Technology Corporation, Ltd.

Machine Learning Approach to Analyzing Data in Japanese BWR Chemistry Database

Technical Paper Publication: ICONE31-134463

Gaku Yamazaki - Central Research Institute of Elecrtic Power Industry

Research on Adaptive Updating Method of Nuclear Power Plant Transient Models Based on Concept Drift

Technical Paper Publication: ICONE31-134670

Jitao Li - Tsinghua University

Zijian Wu - Tsinghua University

Xiaojin Huang - Tsinghua University





#### TUESDAY, 8/6/2024

10L3DA1, 0/0	72024		of International Atomic Energy's to the Launch of a National Nuclear Power Programme
Time	Title	Room	
8:30AM - 10:00AM	Plenary Session 2 : The Future of Nuclear Power	Congress Hall Foyer, Lower Level	Technical Paper Publication: ICONE31-135926
			Ayodeji Ala - Southwest University of Science and Technology
10:00AM - 4:00PM	EXPO Open	Congress Hall Foy- er, Lower Level	Ala Oluwafolakemi - Harbin Engineering University
10:00AM - 10:30AM	Refreshment Break	Congress Hall Foy- er, Lower Level	Comprehensive Approach to Enhance Resilience in Emergency Preparedness of a Nuclear Power Plant
10:30AM - 11:45AM	Plenary Session 3: Small Modular Reac- tor -Global Perspec- tive	Congress Hall 2, Lower Level	Technical Presentation Only: ICONE31-147520
			Han Young Joo - Dankook University
			Jeongyeon Lee - Dankook University
			Chaehyun Lee - Dankook University
12:00PM - 1:00PM	Ticketed Lunch	Atrium Restau- rant	Sang Yun Lee - Dankook University
			Joo Hyun Moon - Dankook University
1:00PM - 2:30PM	ICONE Technical Session	TS: 11-01 Severe Accident	
2:30PM - 3:00PM	Refreshment Break	Congress Hall Foyer, Lower Level	
			15-04
3:00PM - 4:30PM	Panel Sessions	See App for specific locations	8/6/2024 1:00PM-2:30PM - Karlin 2
5:00PM - 6:30PM	ICONE Technical Session	See App for specific locations	Chair: Shripad Revankar - Purdue University
			Co-Chair: Luo YuChen -
7:00PM - 9:30PM	ICONE Banquet **Ticket Required	Congress Hall 2, Lower Level	Co-Chair: Ayumu Sugiura - Tokyo Denki University

14-01: Nuclear Education and Public Acceptance 8/6/2024 1:00PM-2:30PM - Liben 3

Chair: Leon Cizejl - Jozef Stefan Institute Co-Chair: Kan Wang - Tsinghua University

Study on Development Pathways of Nuclear Energy for Energy System in China Using Message Model
Technical Paper Publication: ICONE31-131292

Luhan Mei - Tsinghua University Xiaotong Chen - Tsinghua University Huang Zhang - Tsinghua University Study on Functional Limitations of Piping in Industrial Facilities
Technical Paper Publication: ICONE31-133764

Researchers Understanding of the Possible Contribution

Ayumu Sugiura - Tokyo Denki University Kiyotaka Takito - Japan Atomic Energy Agency Osamu Furuya - Tokyo Denki University Izumi Nakamura - Tokyo City University Yukihiko Okuda - Japan Atomic Energy Agency

Multi-Objective Optimization Study of Nozzle Outlet Size Based on Atomization Performance Technical Paper Publication: ICONE31-133800 Qingshan Chen - Xi'an Jiaotong University Mingjun Wang - Xi'an Jiaotong University Wenxi Tian - Xi'an Jiaotong University Suizheng Qiu - Xi'an Jiaotong University



Guanghui Su - Xi'an Jiaotong University



Criticality and Burnup Analysis of Nuscale Reactors With Various Burnable Absorber Designs and Fuel Isotopes

Technical Paper Publication: ICONE31-133977

Yu-Chen Luo - National Tsing Hua University

Shin-Rong Wu - National Tsing Hua University

Jhao-Yang Hong - National Tsing Hua University

Der-Sheng Chao - National Tsing Hua University

Jenq-Horng Liang - National Tsing Hua University

Dynamic Modeling and Characteristic Analysis of sCO2 Brayton Cycle System

Technical Paper Publication: ICONE31-134272

Shichang Yun - Xi'an Jiaotong University

Dalin Zhang - Xi'an Jiaotong University

Xinyu Li - Xi'an Jiaotong University

Xindi Lv - Xi'an Jiaotong University

An Experimental Study on the Scrubbing Characteristics of Graphite Dust Aerosol in HTGRs

Technical Paper Publication: ICONE31-134288

Yating Wang - Tsinghua University

Yiyang Zhang - Tsinghua University

Zhikai You - Tsinghua University

Shumiao Zhao - Tsinghua University

Zhu Fang - Tsinghua University

Libin Sun - Tsinghua University

Time Series Analysis With Combined Learning Approach for Anomaly Detection in Nuclear Power Plants

Technical Paper Publication: ICONE31-134602

Feiyan Dong - The University of Tokyo

Shi Chen - The University of Tokyo

Kazuyuki Demachi - The University of Tokyo

Masanori Yoshikawa - Japan Atomic Energy Agency

Akiyuki Seki - Japan Atomic Energy Agency

Shigeru Takaya - Japan Atomic Energy Agency

15-07

8/6/2024 1:00PM-2:30PM - Palmovka 1

Chair: Shripad Revankar - Purdue University

Co-Chair: Shuvendu Shivam - Indian Institute of

Technology, Jammu

Co-Chair: Weixiang Wang - University of Science and

Technology of China

Lattice Physics Study of Various Fuel Assembly Design and Optimization Based on Neutronic Analysis for PT-SCWR

Technical Paper Publication: ICONE31-134897

Shuvendu Shivam - Indian Institute of Technology, Jammu

B. Satya Sekhar - Indian Institute of Technology, Jammu

Goutam Dutta - Indian Institute of Technology, Jammu

Study on Influence of Nonlinear Characteristics of Laminated Rubber Bearings on Reactor Buildings Including SMR

Technical Paper Publication: ICONE31-134933

Keito Kitagawa - Tokyo Denki University

Osamu Furuya - Tokyo Denki University

Shigeki Okamura - Japan Atomic Energy Agency

Multi-Scale Coupling Analysis of the Reactivity Insertion

Accident in the Typical LFR

Technical Paper Publication: ICONE31-134957

Hanrui Qiu - Xi'an Jiaotong University

Ruibo Zhang - Xi'an Jiaotong University

Jing Zhang - Xi'an Jiaotong University

Mingjun Wang - Xi'an Jiaotong University

Wenxi Tian - Xi'an Jiaotong University

g.h. Su - Xi'an Jiaotong University

Methodology for Acquiring Reliability Data in Novel Nuclear Energy Systems Using a Non-Homogeneous Poisson Process

Technical Paper Publication: ICONE31-134981

Zefeng Li - Tsinghua University

Pu Chen - Tsinghua University

Tao Liu - Tsinghua University



Numerical Investigation of Capillary Wick Structural Effects on the Heat Transfer Performance of Heat Pipe Cooled Nuclear Reactor

Technical Paper Publication: ICONE31-135009

Fu Youyuan - Southeast University

Da Chen - Southeast University

Wenbin Liu - Southeast University

Shang Mao - Southeast University

Chunhui Xue - Southeast University

Tao Zhou - Southeast University

Development of a High-Temperature Heat Pipe Simulation Code Using Conjugate Heat-Mass Transfer and High-Speed Compressible Algorithm

Technical Paper Publication: ICONE31-135068

Weixiang Wang - University of Science and Technology of China

Kefan Zhang - University of Science and Technology of China

Sifan Dong - University of Science and Technology of China Rui Pan - University of Science and Technology of China Hongli Chen - University of Science and Technology of

15-10

8/6/2024 1:00PM-2:30PM - Palmovka 2

Chair: Shripad Revankar - Purdue University
Co-Chair: Andrius Ambrutis - Lithuanian Energy Institute
Co-Chair: Chengzuo Ji - Tokyo Institute of Technology

A Numerical Study of Film Cooling and Particle Depositions in Turbine Blade of a High-Temperature Gas-Cooled Reactor

Technical Paper Publication: ICONE31-135428
Xiaozhong Wang - Tsinghua University
Qi Sun - InstituTsinghua University
Ping Ye - Tsinghua University
Wenkui Ma - Tsinghua University
Xiaoyong Yang - Tsinghua University
Wei Peng - Tsinghua University

Study on Bubble Migration Characteristics in a Lead-Cooled Fast Reactor After Steam Generator Tube Rupture

Technical Paper Publication: ICONE31-135457

Zhenyu Feng - Xi'an Jiaotong University

Dalin Zhang - Xi'an Jiaotong University

Haoyu Jiao - Xi'an Jiaotong University

Yutong Chen - Xi'an Jiaotong University

Yue Lin - Xi'an Jiaotong University

Wenxi Tian - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

Guanghui Su - Xi'an Jiaotong University

Remote Measurement by Robot Arm Equipped With PAUVP and Libs

Technical Paper Publication: ICONE31-135489

Chengzuo Ji - Tokyo Institute of Technology

Yuan Chen - Tokyo Institute of Technology

Christian Brice - Tokyo Institute of Technology

Hiroshige Kikura - Tokyo Institute of Technology

Hideharu Takahashi - Tokyo Institute of Technology

Gen Endo - Tokyo Institute of Technology

Development and Validation of a Two-Phase Flow Solver With Drift-Flux Model Based on Openfoam

With Differ lax Model based on Openioan

Technical Paper Publication: ICONE31-135549

Wenqiang Wu – Xi'an Jiaotong University

Dalin Zhang - Xi'an Jiaotong University

Tao Huang - Nuclear Power Institute of China

Lei Zhou - Xi'an Jiaotong University

Peng Du - Nuclear Power Institute of China

Wenxi Tian - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

Guanghui Su - Xi'an Jiaotong University

Enhancing Hydrogen Laminar Burning Velocity Estimation With Artificial Neural Networks and Simulated Data

Technical Paper Publication: ICONE31-135582 Andrius Ambrutis - Lithuanian Energy Institute Mantas Povilaitis - Lithuanian Energy Institute





Designing a Knowledge-Centric Plant Information Model by Integrating Tacit Knowledge

Technical Paper Publication: ICONE31-135585

Pascal Mosler - Technical University of Darmstadt

Uwe Rüppel - Technical University of Darmstadt

15-13

8/6/2024 1:00PM-2:30PM - Palmovka 3

Chair: Shripad Revankar - Purdue University
Co-Chair: John Acierno - Pennsylvania State University
Co-Chair: Pilhyeon Ju - Seoul National University

Les of Twin High-Re Rectangular Jets for Benchmarking Model Order Reduction Methods

Technical Paper Publication: ICONE31-136284 John Acierno - Pennsylvania State University Elia Merzari - Pennsylvania State University Victor Petrov - University of Michigan

Annalisa Manera - University of Michigan

Scaling of Horizontal Steam Generator Based on Three-Dimensional Thermal-Hydraulic Simulations Technical Paper Publication: ICONE31-136502

Milos Lazarevic - University of Belgrade Vladimir Stevanovic - University of Belgrade

Milan Petrovic - University of Belgrade

Sanja Milivojevic - University of Belgrade Milica Ilic - University of Belgrade

Seasonal-Weekly Energy Mix Simulation Model for Carbon Neutrality Incorporating Nuclear and Renewable Energy

Technical Presentation Only: ICONE31-135808

Pilhyeon Ju - Seoul National University

Sungyeol Choi - Seoul National University

Jongho Lee - Seoul National University

Preliminary Study on the Integration of Organic Rankine Cycle With the Low-Temperature Heating Reactor

Technical Presentation Only: ICONE31-139314

De-En Song - Tsinghua University

Wenwen Zhang - Tsinghua University

Wentao Hao - Tsinghua University

Weihua Li - Tsinghua University

Wei Peng - Tsinghua University

The Effect of Liquid and Wall Properties Toward the Increase of Wetting Velocity in the Case of Using Multiple Plates in the Top-Reflood Vertical Surfaces

Technical Presentation Only: ICONE31-139623

Akbari - The University of Electro-communications

Hiroyuki Umebayashi - The University of Electrocommunications

Tomio Okawa - The University of Electro-communications

A Text Intelligence-Based Approach for Automatic Generation of Fault Trees in Nuclear Power Plants

Technical Presentation Only: ICONE31-146582

Xingyu Xiao - Tsinghua University

Songlin Liu - Peking University

Zhiyong Zuo - Univeristy of Science and Technology Beijing

Peng Chen - University of Chinese Academy of Sciences

Ben Qi - Tsinghua University

Jingang Liang - Tsinghua University

Jiejuan Tong - Tsinghua University

09-07: Radiation and Physical Transport Studies

8/6/2024 1:00PM-2:30PM - Liben 1

Chair: Anthony Hechanova - Abu Dhabi Polytechnic Co-Chair: Shuijun He - Institute of NBC Defence

Experimental Investigation on the Gasification Kinetics of Irradiated A3-3 Matrix Graphite

Technical Paper Publication: ICONE31-133398

Weishuai Wang - Tsinghua University

Naizhe Zhang - Tsinghua University

Xuegang Liu - Tsinghua University

Feng Xie - Tsinghua University



Molecular Simulation of I2-H2O Diffusion in Different Pore Structures of Activated Carbon Fiber

Technical Paper Publication: ICONE31-135557

Xin Li - China Institute for Radiation Protection

Jingguo Liu - China Institute for Radiation Protection

Yingzhong Shuang - China Institute for Radiation Protection

Zhixin Liu - China Institute for Radiation Protection

Jian Li - China Institute for Radiation Protection

- China Institute for Radiation Protection

Yongguo Li - China Institute for Radiation Protection

Liye Liu - China Institute for Radiation Protection

Study on the Weights of Influencing Factors of Background Count Rate of Gross Alpha and Gross Beta Measured by Liquid Scintillation Counter

Technical Paper Publication: ICONE31-135811

Shuijun He - Institude of NBC defence

Lijuan Tang - Institute of NBC defence

Manchun Liang - Tsinghua University

Ke Li - Tsinghua University

Jihong Wang - Institute of NBC defence

Xiaochuang Du - Tsinghua University

Research on Pulse Discrimination for Alpha and Beta Measurement Based on Auto-Encoder

Technical Paper Publication: ICONE31-135873

Shuijun He - Institude of NBC Defence

Lijuan Tang - Institute of NBC Defence

Manchun Liang - Tsinghua University

Ke Li - Tsinghua University

Jihong Wang - Institute of NBC Defence

Xiaochuang Du - Tsinghua University

Study on Sodium Extraction and Transport at Monju

Technical Paper Publication: ICONE31-135877

Yuta Isobe - Japan Atomic Energy Agency

Takanori Tanigaki - Japan Atomic Energy Agency

Kohei Tone - Japan Atomic Energy Agency

Yuya Joboji - Japan Atomic Energy Agency

Kazuaki Matsui - Japan Atomic Energy Agency

Ikuhito Obata - Japan Atomic Energy Agency

02-04: Nuclear Fuels and Materials - IV

8/6/2024 1:00PM-2:30PM - Palmovka 4

Chair: Hakan Ozaltun - U.S. Nuclear Regulatory

Commission

Co-Chair: Yue Wang - Tsinghua University

Co-Chair: Sarah Weick - Karlsruhe Institute of Technology

Internal Nitridation of Ni-Based Superalloy In617 During

Aging at 950°C

Technical Paper Publication: ICONE31-131779

Yue Wang - Tsinghua University

Hongsheng Zhao - Tsinghua University

Haitao Wang - Tsinghua University

Li Shi - Tsinghua University

Kejian Li - Tsinghua University

Overview of Tritium-Resistant Performance of Heat

Transfer Tube Materials in Reactors

Technical Paper Publication: ICONE31-133813

Mengjie Wu - Tsinghua University

Ziling Zhou - Tsinghua University

Yu Wang - Tsinghua University

Zhengzhe Qu - Tsinghua University

Jing Chen - Chinergy Co., Ltd.

Feng Xie - Tsinghua University

Jianzhu Cao - Tsinghua University

Jiejuan Tong - Tsinghua University

Preliminary Investigation on Superficial Defects of Zirconium Alloys With Advanced Machine Vision

Technology

Technical Paper Publication: ICONE31-134576

Xiaoliang Yang - Nuclear Power Institute of China

Jiandong Luo - Nuclear Power Institute of China

Haoliang Jiang - Nuclear Power Institute of China

Xuequan Wang - Nuclear Power Institute of China

Shuanglu Yu - Nuclear Power Institute of China

Dan Li - Nuclear Power Institute of China





Effects of Magnetic Ordering on the Ground-State Energy of Plutonium Dioxide: A Study Using Adiabatic Connection Fluctuation-Dissipation Theory

Technical Paper Publication: ICONE31-134660 Hiroki Nakamura - Japan Atomic Energy Agency Masahiko Machida - Japan Atomic Energy Agency

Reconstruction of 3D Nuclear Graphite Based on Generative Adversarial Neural Networks With Gradient Penalty

Technical Paper Publication: ICONE31-134733

Lei Peng - Tsinghua University
Zhiyong Liu - Tsinghua University
Pengyu Wang - University of Posts an

Pengyu Wang - University of Posts and Telecommunications

Hao Liu - Guangdong University of Technology

Huang Zhang - Tsinghua University Huaqiang Yin - Tsinghua University Xuedong He - Tsinghua University Tao Ma - Tsinghua University

The Spizwurz Project – Experimental and Modeling Approaches of Hydrogen in Cladding Tubes Under Dry Storage Conditions

Technical Paper Publication: ICONE31-136905
Michel Herm - Karlsruher Institut für Technologie
Mirco Grosse - Karlsruher Institut für Technologie
Sarah Weick - Karlsruher Institut für Technologie
Robert Kilger – GRS gGmbH
Conrado Rössger - Karlsruher Institut für Technologie

Conrado Rössger - Karlsruher Institut für Technologie Martin Steinbrueck - Karlsruher Institut für Technologie Juri Stuckert - Karlsruher Institut für Technologie

11-01 Severe Accident Mitigation Strategies 8/6/2024 1:00PM-2:30PM - Florenc 2

Chair: Luteng Zhang - Chongqing University
Co-Chair: Ivo Kljenak - Jozef Stefan Institute
Co-Chair: Guoqiang Wang - Westinghouse Electric Co.

The Study on Risk Assessment Method of Severe Accident Management Strategies in Nuclear Power Plants

Technical Paper Publication: ICONE31-127856

Shipeng Niu - China Nuclear Power Engineering Co., Ltd.

Yun Yu - China Nuclear Power Engineering Co., Ltd.

Gaopeng Wang - China Nuclear Power Engineering Co., Ltd.

Xinli Yu - China Nuclear Power Engineering Co., Ltd.

Yang Liu - Xi'an Jiaotong University

Jiarui Zhang - Xi'an Jiaotong University

Yapei Zhang - Xi'an Jiaotong University

Current Challenges in Nuclear Accident Emergency Evacuation for Densely Populated Areas

Technical Paper Publication: ICONE31-134734

Hongchun Ding - Shenzhen Research Institute of China University of Mining and Technology

Guohua Wu - Shenzhen Technology University

Kang Liu - Shenzhen Institutes of Advanced Technology, China Academy of Science

Wei Wang - City University of Hong Kong

Assessment of Multi-Unit Emergency Response Capability of Nuclear Power Plants

Technical Paper Publication: ICONE31-135370

Jiaxuan Gao - China Nuclear Power Engineering Co., Ltd.

Ya Liu - China Nuclear Power Engineering Co., Ltd.

Na Xue - China Nuclear Power Engineering Co., Ltd.

Jiemin Zhang - China Nuclear Power Engineering Co., Ltd.

Mengxi Wang - China Nuclear Power Engineering Co., Ltd.

Research on Depressurization Strategy of AP1000 Automatic Depressurization System Under DVI Pipeline Break Accident

Technical Paper Publication: ICONE31-135532

Dufeng Lv - Harbin Engineering University

Zhengrun Shang - Harbin Engineering University

Zhaoming Meng - Harbin Engineering University

Zhongning Sun - Harbin Engineering University

Depressurization Behavior and Strategy of Automatic Depressurization System for AP1000

Technical Paper Publication: ICONE31-135645
Zhengrun Shang - Harbin Engineering University
Dufeng Lv - Harbin Engineering University



Zhaoming Meng - Harbin Engineering University Zhongning Sun - Harbin Engineering University

Research on Diffusion and Mitigation of Severe Accident Source Terms in Floating Nuclear Power Plant
Technical Paper Publication: ICONE31-139205
Tao Xu - Nuclear Power Institute of China
Junlong Wang - Nuclear Power Institute of China
Bin Zhang - Xi'an Jiaotong University
Jishen Li - Nuclear Power Institute of China
Jiajia Liu - Nuclear Power Institute of China
Mingming Xia - Nuclear Power Institute of China
Haifu Ma - Nuclear Power Institute of China
Yirui Wu - Nuclear Power Institute of China

03-01: Control and Monitoring Systems 8/6/2024 1:00PM-2:30PM - Karlin 1

Chair: Brian Fant - Bechtel

Dynamic Matrix Control for Cold Helium Temperature and Main Steam Temperature of Multi-Modular High Temperature Gas-Cooled Reactor Plant Technical Paper Publication: ICONE31-130137

Wu Zhendong - Tsinghua University Dong Zhe - Tsinghua University

Research on the Radiation Monitoring Methods in the Reactor Coolant Pressure Boundary Leakage of Nuclear Power Plant

Technical Paper Publication: ICONE31-130567
Zhenlei Yang - Nuclear Power Institute of China
Chengmin Liu - Nuclear Power Institute of China
Tianzhi Jiang - Nuclear Power Institute of China
Jin Li - Nuclear Power Institute of China
Xianglin Zhuo - Nuclear Power Institute of China
Hongliang Zhu - Nuclear Power Institute of China
Liang He - Nuclear Power Institute of China
Zhengxi He - Nuclear Power Institute of China
Jinqiu Peng - Nuclear Power Institute of China

A Method Using Strong Tracking Filter for Compensating the Response Delay of Self-Powered Neutron Detectors Technical Paper Publication: ICONE31-130885
Shiyu Liu - Xian Jiaotong University
Qingmin Zhang - Xian Jiaotong University
Jinliang Liu - Northwest Institute of Nuclear Technology Yaodong Sang - Xi'an Jiaotong University
Zhuang Shao - Xi'an Jiaotong University
Kangfu Zhu - Xi'an Jiaotong University

A Study on the Burnup Effect of Silver Self-Powered Neutron Detector Technical Paper Publication: ICONE31-134377 Yaodong Sang - Xi'an Jiaotong University Bangjie Deng - Xian Jiaotong University Shiyu Liu - Xian Jiaotong University Qingmin Zhang - Xian Jiaotong University

Operation and Control Characteristics of Large Parallel Pipeline Fluid System Simulation Study Technical Paper Publication: ICONE31-134879 Niu Yuchen - Harbin Engineering University Minjun Peng - Harbin Engineering University Bowen Zhang - Harbin Engineering University Zhe Yuan - Harbin Engineering University





12-01 Risk Assessments and Management - Session 1

8/6/2024 1:00PM-2:30PM - Karlin 3

Chair: Arun Veeramany - Pacific Northwest National Laboratory

Co-Chair: Hidemasa Yamano - Japan Atomic Energy Agency

Co-Chair: Mahesh Pandey - University of Waterloo

Co-Chair: Anton Prins - Risk Management and Consultancy

Co-Chair: Arnold Yuan - Ryerson University Co-Chair: Ivan Vrbanic - APoSS d.o.o. Co-Chair: Jaroslav Holy - UJV Řež, a.s.

Co-Chair: Yoshihisa Nishi - Central Research Institute of

**Electric Power Industry** 

Co-Chair: Zhegang Ma - Idaho National Laboratory

Co-Chair: Wei Deng - China Nuclear Power Engineering

Co., Ltd.

Co-Chair: Thomas Vogan - Sargent & Lundy

Co-Chair: Tao Yu -

Co-Chair: He Wang - Harbin Engineering University

Co-Chair: Xinli Yu - China Nuclear Power Engineering Co.,

Ltd.

Uncertainty Analysis of Geometric Parameters for Fuel

Assembly Based on Sub-Channel Model

Technical Paper Publication: ICONE31-131992

Deyan Kong - Harbin Engineering University

Zhibo Gao - Harbin Engineering University

Di Wu - Harbin Engineering University

Jie Cheng - Harbin Engineering University

Jianjun Wang - Harbin Engineering University

A Study of Safety Importance Screening Criteria in the NPP Risk-Informed Safety Classification Process

Technical Paper Publication: ICONE31-132467

Jinghua Zhou - China Nuclear Power Engineering Co., Ltd.

Wei Deng - China Nuclear Power Engineering Co., Ltd.

Chao Ma - China Nuclear Power Engineering Co., Ltd.

Yiwen Guo - China Nuclear Power Engineering Co., Ltd.

Comparative Study of Deep Learning Models for Accident Classification in NPP: Emphasizing Transparency and Performance

Technical Paper Publication: ICONE31-133604

Merouane Najar - Harbin Engineering University

He Wang - Harbin Engineering University

Estimation of Unavailability Parameter for Mitigation System Performance Index for the Japanese Nuclear Power Plants

Technical Presentation Only: ICONE31-131637

Yoneda Kimitoshi - Central Research Institute of Electric Power Industry

Yasuhiro lwaya - Central Research Institute of Electric Power Industry

Tomoaki Yoshida - Central Research Institute of Electric Power Industry

A Text Intelligence-Based Approach for Automatic Generation of Fault Trees in Nuclear Power Plants

Technical Paper Publication: ICONE31-134226

Xingyu Xiao - Tsinghua University

Songlin Liu - Peking University

Zhiyong Zuo - University of Science and Technology Beijing

Peng Chen - Chinese Academy of Sciences

Ben Qi -Tsinghua University

Jingang Liang - Tsinghua University

Jiejuan Tong - Tsinghua University,

The Development of the Fire PRA Model for Shimane Unit 2 Nuclear Power Plant

Technical Paper Publication: ICONE31-134339

Kotaro Yoshizaki - Hitachi-GE Nuclear Energy, Ltd.

Bumpei Fujioka - Hitachi-GE Nuclear Energy, Ltd.

Daichi Shiota - Hitachi-GE Nuclear Energy, Ltd.

Takahiro Usui - The Chugoku Electric Power Company

Hitoshi Nojima - The Chugoku Electric Power Company

Kenichi Kanda - The Chugoku Electric Power Company

Kazunobu Noriyasu - The Chugoku Electric Power Company



13-01: Computer Code V&V - I

8/6/2024 1:00PM-2:30PM - Karlin 4

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Yassin Hassan - Texas A&M

Co-Chair: Samah Albdour - Khalifa University

Co-Chair: Han Yin - Shanghai Jiao Tong University

Research and Preliminary Verification of the Resonance Self-Shielding Calculation Method for the High-Fidelity

**Neutronics Code VITAS** 

Technical Paper Publication: ICONE31-133419

Han Yin - Shanghai Jiao Tong University

Tengfei Zhang - Shanghai Jiao Tong University

Xiaojing Liu - Shanghai Jiao Tong University

Verification of Method of Characteristics With General Quadrant Meshing Technique for Complex Geometry

Technical Paper Publication: ICONE31-134175

Jian Guo - Chinese Academy of Sciences

Guifeng Zhu - Chinese Academy of Sciences

Rui Yan - Chinese Academy of Sciences

Yang Zou - Chinese Academy of Sciences

Modeling Co-Current and Counter-Current Flow: A Performance Evaluation of the Trace Condensation Model

With Non-Condensable and Light Gases

Technical Paper Publication: ICONE31-134262

Samah A. Albdour - Khalifa University

Yacine Addad - Khalifa university

Imran Afgan - Khalifa University

Validation and Verification of ASYST Code for Predicting Condensation Phenomena in Nuclear Reactor Safety

Systems

Technical Paper Publication: ICONE31-134294

Satya Prakash Saraswat - Khalifa University

Mubashir Hassan - Khalifa University

Sameer Mohammad Osman - Khalifa University

Chris Allison - Innovative Systems Software

Yacine Addad - Khalifa University

Tube Plugging Induced Temperature Non-Uniformity in Once Through Steam Generator

Technical Paper Publication: ICONE31-134783

Yunhao Luo - Insititude of Nuclear and New Energy Technology

Xiaoyang Xie - Institute of Nuclear and New Energy Technology

Xiaowei Li - Institute of Nuclear and New Energy

Technology

Xinxin Wu - Institute of Nuclear and New Energy

Technology

15-05

8/6/2024 5:00PM-6:30PM - Karlin 2

Chair: Shripad Revankar - Purdue University Co-Chair: Wen Junlong - Kyushu University

Co-Chair: He Shang - Harbin Engineering University

Study on Heat Transfer Behavior of a Rectangular Particle

Bed With Volumetric Heating

Technical Paper Publication: ICONE31-134313

Wen Junlang - Kyushu University

Kamada Yuto - Kyushu University

Yokoyama Kosei - Kyushu University

Matsumoto Tatsuya - Kyushu University

Liu Wei - Kyushu University

Morita Koji - Kyushu University

Imaizumi Yuya - Japan Atomic Energy Agency

Tagami Hirotaka - Japan Atomic Energy Agency

Matsuba Kenichi - Japan Atomic Energy Agency

Kamiyama Kenji - Japan Atomic Energy Agency

The Effect of Liquid and Wall Properties Toward the Increase of Wetting Velocity in the Case of Using Multiple

Plates in the Top-Reflood Vertical Surfaces

Technical Paper Publication: ICONE31-134362

Akbari - The University of Electro-communications

Hiroyuki Umebayashi - The University of Electro-

communications

Tomio Okawa - The University of Electro-communications





Liquid Lead-Bismuth Oxygen Sensors Performance Study
Technical Paper Publication: ICONE31-134381
Hui Li - North China Electric Power University
Weihao Wu - North China Electric Power University
Yuqi Zhu - North China Electric Power University
Huiping Zhu - North China Electric Power University
Fenglei Niu - North China Electric Power University

Investigation on Isotopic Depletion Validation and Uncertainty Analysis With Kalman Filtering

Technical Paper Publication: ICONE31-134428

Jianshu Qiao - Southeast University Dongli Huang - Southeast University

Study on the Calculation of Interphase Drag Force Based on Liquid Metal-Gas Two-Phase Flow

Technical Paper Publication: ICONE31-134630

Hong Zhang - Chongqing University

Yangyong Ou - China Nuclear Power Technology Research Institute Co., Ltd.

Di Wang - China Nuclear Power Technology Research Institute Co., Ltd.

Longxiang Zhu - Chognqing University Lingfeng Wan - Chognqing University

Wan Sun - Chognqing University

Liangming Pan - Chognqing University

Development of a Nonintrusive Reduced Order Model for Parametric Study in the Reactor Pressure Vessel Lower Plenum

Technical Paper Publication: ICONE31-134678

He Shang - Harbin Engineering University

Minjun Peng - Harbin Engineering University

Genglei Xia - Harbin Engineering

Shiqi Zhang - Harbin Engineering University

Shijie Zhu - Harbin Engineering University

15-08

8/6/2024 5:00PM-6:30PM - Palmovka 1

Chair: Shripad Revankar - Purdue University

Co-Chair: Asma Alzarooni - Khalifa University of Science

and Technology

Co-Chair: Yihua Xu - University of Tokyo

Performance Analysis for Enhanced Cr-Coated Fuel Cladding System in APR-1400 Reactor

Technical Paper Publication: ICONE31-135127

Asma Alzarooni - Khalifa University of Science and Technology

Mohammad Alrwashdeh - Khalifa University of Science and Technology

Saeed A. Alameri - Khalifa University of Science and Technology

Numerical Prediction of Flow and Heat Transfer in Supercritical Fluids

Technical Paper Publication: ICONE31-135186

Abdullah Alasif - King Fahd University of Petroleum & Minerals

Andrea Pucciarelli - Università di Pisa

Osman Siddiqui - King Fahd University of Petroleum & Minerals

Afaque Shams - King Fahd University of Petroleum & Minerals

Joint Simulation of Pressurizer and Chemical and Volume Control System of PWR Based on Modelica

Technical Paper Publication: ICONE31-135196

Zhibo Gao - Harbin Engineering University

Xuefeng Xia - Harbin Engineering University

Ziao Xiang - Harbin Engineering University

Jie Cheng - Harbin Engineering University

Jianjun Wang - Harbin Engineering University

Di Wu - Harbin Engineering University

An Improved Multiphase Lattice Boltzmann Method Scheme for Large Density Ratio Simulation in Heat Pipe

Technical Paper Publication: ICONE31-135207

Lie Quan - Tsinghua University

Yugao Ma - Nuclear Power Institute of China

Xiao Liu - Tsinghua University



Shanfang Huang - Tsinghua University Kan Wang - Tsinghua University

Study on Radial Thermal-Hydraulic Characteristics of Once-Through Steam Generator of Sodium-Cooled Fast Reactor

Technical Paper Publication: ICONE31-135219

Yapeng Liu - Xi'an Jiaotong University
Bo Wang - Xi'an Jiaotong University
Dalin Zhang - Xi'an Jiaotong University
Zhenyu Feng - Xi'an Jiaotong University
Xinyu Li - Xi'an Jiaotong University
Wenxi Tian - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University Guanghui Su - Xi'an Jiaotong University

Experimental Study on Metal Jet Spreading on Substrate With Roughness

Technical Paper Publication: ICONE31-135231

Yihua Xu - University of Tokyo Ryo Yokoyama - University of Tokyo Shunichi Suzuki - University of Tokyo

15-11

8/6/2024 5:00PM-6:30PM - Palmovka 2

Chair: Shripad Revankar - Purdue University

Co-Chair: Salvatore Angelo Cancemi - University of Pisa Co-Chair: Aramaki Takuto - Tokyo Denki University

Study of Jet Characteristics and Structural Fatigue in the Upper Chamber of a Lead-Bismuth Eutectic Cooled Reactor Based on Fluid-Structure Coupling Methods

Technical Paper Publication: ICONE31-135637

Ji Zhang - Xi'an Jiaotong University

Mingjun Wang - Xi'an Jiaotong University Wenxi Tian - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

Guanghui Su - Xi'an Jiaotong University

Coarse Mesh Generation for CMFD Acceleration in Sarax-Lavender Code

Technical Paper Publication: ICONE31-135744

Haoxiang Xu - Xi'an Jiaotong University Youqi Zheng - Xi'an Jiaotong University Bowen Xiao - Xi'an Jiaotong University

Hongchun Wu - Xi'an Jiaotong University

Characteristic Time Analysis for the Main Dynamic Behaviors of Radioactive Aerosols in Severe Nuclear Accidents

Technical Paper Publication: ICONE31-135753

Jinghong Wang - Tsinghua University Wei Peng - Tsinghua University Suyuan Yu - Tsinghua University

Enhancing Nuclear Safety Assessment Through Ai-Driven Surrogate Models for Severe Accident Simulations

Technical Paper Publication: ICONE31-135798 Salvatore Angelo Cancemi - University of Pisa

Michela Angelucci - University of Pisa Rosa Lo Frano - University of Pisa Sandro Paci - University of Pisa

Heat Transfer to Supercritical Water Flowing Upward in Short Vertical Flow Geometries

Technical Paper Publication: ICONE31-135875
Mehmet Kavalci - Ontario Tech University
Mark Wspanialy - Ontario Tech University
Laura Heyns - Ontario Tech University
Marcus Cornelius - Ontario Tech University
Igor Pioro - Ontario Tech University

Study on Stabilization Technology of Base Isolation Layer Using Air Floating Technology by Shaking Table Test

Technical Paper Publication: ICONE31-136046

Aramaki Takuto - Tokyo Denki University

Osamu Furuya - Tokyo Denki University

Yoshiro Hiyama - Sansei Airdanshin Systems Inc. Koji Yamazaki - Sansei Airdanshin Systems Inc.





07-04: Experiments and Analyses - III

8/6/2024 5:00PM-6:30PM - Liben 3

Chair: Luke Placzek - Pacific Northwest National Laboratory

Co-Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Fabian Fabian - Karlsruhe Institute of Technology

Experimental Investigation of Heat Transfer to Supercritical Pressure R134a in Artificially Roughened Tubes

Technical Paper Publication: ICONE31-135141

Fabian Wiltschko - Karlsruhe Institute of Technology

Monika Sipova - Centrum Výzkumu Řež

Jan Vit - Centrum Výzkumu Řež

Xu Cheng - Karlsruhe Institute of Technology

Simulation and Analysis for Hualong Reactor Advanced Integrated Test Facility Based on Relap5

Technical Paper Publication: ICONE31-135143

Yiwa Geng - China Nuclear Power Engineering Co., Ltd. Jingxiang Zhan - China Nuclear Power Engineering Co., Ltd. Yuntao Zheng - China Nuclear Power Engineering Co., Ltd. Jiatai Liu - China Nuclear Power Engineering Co., Ltd.

Shuliang Huang - China Nuclear Power Engineering Co., Ltd.

Si Ni - China Nuclear Power Engineering Co., Ltd. Changjiang Yang - China Nuclear Power Engineering Co., Ltd.

Inverse Uncertainty Quantification for Subchannel Code With PSBT Experimental Benchmark

Technical Paper Publication: ICONE31-135192 Hanyu Luo - Shanghai Jiao Tong University

Xiaojing Liu - Shanghai Jiao Tong University

Experimental Study on Startup and Heat Transfer Performance of High Temperature Sodium Heat Pipe

Technical Paper Publication: ICONE31-135210

Shunli Jiang - Nuclear Power Institute of China; Tsinghua University

Huihui Zhou - Nuclear Power Institute of China

Youjia Zhang - Nuclear Power Institute of China

Dewen Yuan - Nuclear Power Institute of China

Shanfang Huang - Tsinghua University

Prediction of Critical Heat Flux of Wire-Wrapped Rod Bundle Based on Artificial Neural Network

Technical Paper Publication: ICONE31-135404

Wei Zhang - Shanghai Jiao Tong University

Yao Xiao - Shanghai Jiao Tong Unversity

Lijun Yu - Shanghai Jiao Tong Unversity

Hanyang Gu - Shanghai Jiao Tong Unversity

Preliminary Assessment of Cathare-Modelica Codes Coupling for Safety Analyses in Nuclear Cogeneration

Technical Paper Publication: ICONE31-136017

Alessandro De Angelis - University of Pisa

Paolo Olita - CEA Cadarache

Walter Ambrosini - University of Pisa

07-06: Experiments and Analyses - V

8/6/2024 5:00PM-6:30PM - Palmovka 3

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Yoshihiro Ishikawa - Rasa Industries, Ltd.

Co-Chair: Minghui Duan - China Institute of Atomic Energy

A Benchmark Test of CHF Test Facility in Ciae to Columbia University HTRF

Technical Paper Publication: ICONE31-135859

Minghui Duan - China Institute of Atomic Energy

Yongwang Xu - China Institute of Atomic Energy

Dongxu Zhang - China Institute of Atomic Energy

Minfu Zhao - China Institute of Atomic Energy

Junhan Wei - China Institute of Atomic Energy

Bing Yang - China Institute of Atomic Energy

Qingyuan Li - China Institute of Atomic Energy

Wei Wang - China Institute of Atomic Energy

Sampo-P Test Facility and Numerical Pretest

Technical Paper Publication: ICONE31-135932

Pengya Guo - Tsinghua University

Peng Yu - China Nuclear Power Engineering Co., Ltd.

Fengyang Quan - China Nuclear Power Engineering Co., Ltd.

Wei Li - China Nuclear Power Engineering Co., Ltd.

Jie Pei - China Nuclear Power Engineering Co., Ltd.



Yidan Yuan - China Nuclear Power Engineering Co., Ltd. Jiyang Yu - DepTsinghua University Weimin Ma - KTH Royal Institute of Technology

Experimental Study of Heat Transfer Characteristics During Reflooding Process Under Partially Exposed Conditions in Narrow Rectangular Channels

Technical Paper Publication: ICONE31-136011

Junchen Wu - Chongqing University

Haidong Liu - Chongqing University of Technology

Deqi Chen - Chongqing University

Qianlong Zuo - Chongqing University

Hanzhou Liu - Chongqing University

Jian Deng - Nuclear Power Institute of China

Dan Wu - Nuclear Power Institute of China

Mingjing Chen - Chongqing University

Experimental Investigation of Fluidelastic Instability in In-Line Tube Arrays

Technical Paper Publication: ICONE31-136028

Yuiqi Wang - Tsinghua University

Xiaoxin Wang - Tsinghua University

Li Shi - Tsinghua University

Xinxin Wu - Tsinghua University

Advanced Radioactive Material Removal System Using Silver Zeolite (9) Performance Evaluation of Silver Zeolite AgX by High Temperature and Atmospheric Pressure Test Equipment

Technical Paper Publication: ICONE31-136295

Yoshihiro Ishikawa - Rasa Industries, Ltd.

Koji Endo - Rasa Industries

Tadashi Narabayashi - Tokyo Tech

Yasuhiro Kawahara - Kimura Chemical Plants

Tomonori Watanabe - Morimura Bros., Inc.

02-05: Fabrication, Fuel Cycle, Shielding, Storage - I

8/6/2024 5:00PM-6:30PM - Palmovka 4

Chair: Hakan Ozaltun - U.S. Nuclear Regulatory

Commission

Co-Chair: Jianhui Wu - Chinese Academy of Sciences

Co-Chair: Xuesong Liu - China Nuclear Power Engineering

Influence of Thorium Utilization on the Safety of a Small Modular Molten Salt Reactor

Technical Paper Publication: ICONE31-134819

Jianhui Wu - Chinese Academy of Sciences

Chunyan Zou - Chinese Academy of Sciences

Chenggang Yu - Chinese Academy of Sciences

Hongkai Zhao - Chinese Academy of Sciences

Yong Cui - Chinese Academy of Sciences

Haotian Bao - Chinese Academy of Sciences

Xiangzhou Cai - Chinese Academy of Sciences

Jingen Chen - Chinese Academy of Sciences

Reliability Studies for Additive Manufacturing Parts of Nuclear Fuel

Technical Paper Publication: ICONE31-135681

Guopeng Qin - CNNC Jianzhong Nuclear Fuel Co., Ltd.

Liying Zhang - CNNC Jianzhong Nuclear Fuel Co., Ltd.

Yushan Huang - Guangzhou Shinengine AM Technology Co., Ltd.

. . . ,

Analysis of Shielding Structures of Radioactive Material Transport Package Based on Isotope γ Radiation Properties in Radioactive Materials

Technical Paper Publication: ICONE31-136353

Zhipeng Wang - China Institute for Radiation Protection

Changwu Wang - China Institute for Radiation Protection

Qian Sun - China Institute for Radiation Protection

Yuhang Zhang - China Institute for Radiation Protection

A Kind of Shielding Design and Verification Test of Radioactive Source Transport Container

Technical Paper Publication: ICONE31-136170

Lei Chen - China Institute for Radiation Protection

Zhipeng Wang - China Institute for Radiation Protection

Liming Jiao - China Institute for Radiation Protection





Dajie Zhuang - China Institute for Radiation Protection Qian Sun - China Institute for Radiation Protection Changwu Wang - China Institute for Radiation Protection

Analysis on Permeation Leakage Through Rubber Sealing Ring for Radioactive Material Transport Packages

Technical Paper Publication: ICONE31-136263

Pengyi Wang - China Institute for Radiation Protection Dajie Zhuang - China Institute for Radiation Protection Hongchao Sun - China Institute for Radiation Protection

Lei Chen - China Institute for Radiation Protection

Methodologies for Fission Product Inventory of Reactor Core Based on Transport-Burnup Program

Technical Paper Publication: ICONE31-136168

Xuesong Liu - China Nuclear Power Engineering Co., Ltd. Bingheng Wang - China Nuclear Power Engineering Co., Ltd

Aijun Mi - China Nuclear Power Engineering Co., Ltd.

11-02 Severe accident mitigation phenomena 8/6/2024 5:00PM-6:30PM - Florenc 2

Chair: Luteng Zhang - Chongqing University
Co-Chair: Ivo Kljenak - Jozef Stefan Institute
Co-Chair: Guoqiang Wang - Westinghouse Electric Co.

Numerical Simulation of Single/two-Phase Flow in a Stratified Porous Bed

Technical Paper Publication: ICONE31-135388 Aimad Bouloudenine - Xian Jiaotong University

Liangxing Li - Xi'an Jiaotong University Zutao Xiang - Xi'an Jiaotong University

Shang Shi - Xi'an Jiaotong University

Muhammad Abu Bakar - Xi'an Jiaotong University

Study on the Remelting Process of the Debris Bed in the Lower Head of Reactor Pressure Vessel Based on Lattice Boltzmann Method

Technical Paper Publication: ICONE31-136038

Shang Shi - Xi'an Jiaotong University Liangxing Li - Xi'an Jiaotong University Weimin Ma - Royal Institute of Technology

Xiao Zeng - China Nuclear Power Engineering Co., Ltd.

Yidan Yuan - China Nuclear Power Engineering Co., Ltd.

Zhenxin Lei - Xi'an Jiaotong University

Zutao Xiang - Xi'an Jiaotong University

Xiangyang Xu - Xi'an Jiaotong University

Uncertainty and Sensitivity Analysis of PHEBUS FPT-1 Experiment Based on Severe Accident Analysis Code ISAA

Technical Paper Publication: ICONE31-136230

Hao Yang - Xi'an Jiaotong University

Bin Zhang - Xi'an Jiaotong University

Jishen Li - Xi'an Jiaotong University

Pengcheng Gao - Xi'an Jiaotong University

Zhiran Zhang - Xi'an Jiaotong University

Fan Miao - School of Nuclear Science and Technology

Experimental Study of Rectangular Channel Heat Transfer With Buoyancy-Aided Flow Under Asymmetrically Heating

Technical Paper Publication: ICONE31-134969

Yongan Ji - Harbin Engineering University

Zehua Guo - Harbin Engineering University

Ming Ding - Harbin Engineering University

Zhongning Sun - Harbin Engineering University

Experimental Study on the Influence of Spray Characteristics and Temperature Control on the Removal Efficiency of Iodine Aerosols

Technical Paper Publication: ICONE31-135227

Jiaxuan Tang - Chongqing University

Yang Yang - Chongqing University

Luteng Zhang - Chongqing University

Jialong Li - Chongqing University

Liangming Pan - Chongqing University

Zhuo Liu - China Nuclear Power Engineering Co., Ltd.

Li Gao - China Nuclear Power Engineering Co., Ltd.

Yidan Yuan - China Nuclear Power Engineering Co., Ltd.

Numerical Study on the Operational Behavior of Catalytic Components With Spherical Packed Bed Structures

Technical Paper Publication: ICONE31-134633

Tianming Man - Harbin Engineering University

Zehua Guo - Harbin Engineering University



Ming Ding - Harbin Engineering University Wenkai Liang - Tsinghua University

03-02: Human Factors and Digitization 8/6/2024 5:00PM-6:30PM - Karlin 1

Chair: Brian Fant - Bechtel

Research on Human Reliability Analysis in Digital Master Control Room of Nuclear Power Plant

Technical Paper Publication: ICONE31-134638

Shuting Wang - Nuclear Power Operations Research

Institute

Ling Zhao - Nuclear Power Operations Research Institute

Dalin Liu - Nuclear Power Operations Research Institute

Zhen Yan - Nuclear Power Operations Research Institute

Overview of the Application of Thermal Management in Industry and the Application Prospect in the DCS of the **NPP** 

Technical Paper Publication: ICONE31-134820 Youyou Xu - Nuclear Power Institute of China

Jian Deng - Nuclear Power Institute of China

Zhifang Qiu - Nuclear Power Institute of China

Dahuan Zhu - Nuclear Power Institute of China

Dongwei Wang - Nuclear Power Institute of China

Wenbin Han - Nuclear Power Institute of China

Influence of Nuclear Power Plant Interface Complexity on Operator Cognitive Behavior: A Modeling Study

Technical Paper Publication: ICONE31-134997

Pu Chen - Tsinghua University

Jiejuan Tong - Tsinghua University

Visual Analysis of the Research Status, Hotspots, and Trends of International Nuclear Industry Internet **Platforms** 

Technical Paper Publication: ICONE31-135876

Liu Xianying - China Nuclear Power Operation Technology

Corporation, Ltd.

Yinggang Jing - China Nuclear Power Operation Technology

Corporation,Ltd.

Minmin Cheng - China Nuclear Power Operation Technology Corporation, Ltd.

Huajian Fang - China Nuclear Power Operation Technology Corporation, Ltd.

Preliminary Research on Human Error Analysis and Accident Risk Assessment of Operators With Dynamic Human-Machine Interaction Simulation of Advanced Control Room in Nuclear Power Plants

Technical Paper Publication: ICONE31-136549

Ting Wen - Shenzhen University

Angi Xu - Shenzhen, China

Ming Yang - Shenzhen University

Xiaomeng Dong - Shenzhen University

Linfeng Li - Shenzhen University

Huiting Wang - Shenzhen University

Leiyue Yang - Shenzhen University

12-02 Risk Assessments and Management - Session 2

8/6/2024 5:00 PM to 6:30 PM - Karlin 3

Chair: Arun Veeramany - Pacific Northwest National Laboratory

Co-Chair: Hidemasa Yamano - Japan Atomic Energy Agency

Co-Chair: Mahesh Pandey - University of Waterloo

Co-Chair: Anton Prins - Risk Management and Consultancy

Co-Chair: Arnold Yuan - Ryerson University

Co-Chair: Ivan Vrbanic - APoSS d.o.o.

Co-Chair: Jaroslav Holy - UJV Řež, a.s.

Co-Chair: Yoshihisa Nishi - Central Research Institute of

**Electric Power Industry** 

Co-Chair: Zhegang Ma - Idaho National Laboratory

Co-Chair: Wei Deng - China Nuclear Power Engineering

Co., Ltd.

Co-Chair: Thomas Vogan - Sargent & Lundy

Co-Chair: Tao Yu -

Co-Chair: He Wang - Harbin Engineering University

Co-Chair: Xinli Yu - China Nuclear Power Engineering Co.,





Enhancement of Shimane Unit 2 Internal Event At-Power PRA for Reflecting New Findings Including Current Plant States

Technical Paper Publication: ICONE31-134400

Takahiro Usui - The Chugoku Electric Power Co., Inc.

Hiroki Nakamura - The Chugoku Electric Power Co., Inc.

Kenichi Ihara - The Chugoku Electric Power Co., Inc.

Yuki Hirai - The Chugoku Electric Power Co., Inc.

Hitoshi Nojima - The Chugoku Electric Power Co., Inc.

Satoshi Yoneda - The Chugoku Electric Power Co., Inc.

Kenichi Kanda - The Chugoku Electric Power Co., Inc.

Kazunobu Noriyasu - The Chugoku Electric Power Co., Inc.

Daichi Shiota - Hitachi-GE Nuclear Energy, Ltd.

Naoki Hirokawa - Hitachi-GE Nuclear Energy, Ltd.

Development of the Ambient Dose Rate Evaluation Methodology Based on Plant Conditions for Rapid Consequence Assessment

Technical Presentation Only: ICONE31-133049 Kodai Wadayama - Nuclear Regulation Authority Retsu Kojo - Nuclear Regulation Authority

Typical Fault Diagnosis Model of Nuclear Power Plant Combined With Knowledge Driven and Data Driven Technical Paper Publication: ICONE31-134815 Xin Wang - Harbin Engineering University Minjun Peng - Harbin Engineering University Hang Wang - Harbin Engineering University Zikang Li - Harbin Engineering University

Impact of Synoptic Weather Patterns Along the Pacific Coastline of Japan on Tornado Wind Hazard Curves

Technical Paper Publication: ICONE31-135030

Kota Fujiwara - Central Research Institute of Electric Power Industry

Daisuke Nohara - Central Research Institute of Electric Power Industry

Yuzuru Eguchi - Central Research Institute of Electric Power Industry

Yasuo Hattori - Central Research Institute of Electric Power Industry

Hiromaru Hirakuchi - Central Research Institute of Electric Power Industry Effect of Hydrogen Plant Structure on Hydrogen Risk Technical Paper Publication: ICONE31-135092 Shucheng Zhang - North China Electric Power University Xuefeng Lyu - North China Electric Power University

Lin Wang - North China Electric Power University
Xichen Li - Shengneng Energy (Zhejiang) Co., Ltd.
Yu Yu - North China Electric Power University
Houjian Zhao - North China Electric Power University
Shengfei Wang - North China Electric Power University
Zhangpeng Guo - North China Electric Power University

Analysis of Mobile Equipment Configuration for Severe Accidents in Nuclear Power Plants Based on Multi-Unit PSA

Technical Paper Publication: ICONE31-134510

Dalin Liu - Nuclear Power Operations Research Institute Jiangguo Wang - Nuclear Power Operations Research Institute

Zhen Yan - Nuclear Power Operations Research Institute Shuting Wang - Nuclear Power Operations Research Institute

Ling Zhao - Nuclear Power Operations Research Institute

13-02: Computer Code V&V - II

8/6/2024 5:00PM-6:30PM - Karlin 4

Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Kotaro Nakada - Toshiba Energy Systems & Solutions Corporation

Co-Chair: Lixin Du - Shanghai Jiao Tong University Co-Chair: Zixuan Wang - Tsinghua University

Verification and Analysis of Thermal-Hydraulics System Program for a Power Plant Model

Technical Paper Publication: ICONE31-134794

Lixin Du - Shanghai Jiao Tong University

Peng Zhou - Shanghai Jiao Tong University

Hao Zhang - Shanghai Jiao Tong University

Yanhua Yang - Shanghai Jiao Tong University



Comparative Analysis of Loss of Coolant Accidents for Gen-III PWRs Based on Acme and Atlas Facilities

Technical Paper Publication: ICONE31-134823

Yuhang Huang - Huazhong University of Science and Technology

Xueyan Zhang - Huazhong University of Science and Technology

Jun Yang - Huazhong University of Science and Technology

Accelerating Nuclear Monte Carlo Simulations With Accuracy Improvement by Using Gaming-Based Deep Learning Super Sampling

Technical Paper Publication: ICONE31-134868

Haoxuan Guo - Xi'an Jiaotong University

Wei Li - Xi'an Jiaotong University

Yaodong Sang - Xi'an Jiaotong University

Haizheng Chen - Xi'an Jiaotong University

Qingmin Zhang - Xi'an Jiaotong University

Code-to-Code Verification of Thermal Hydraulic Subchannel Code Linden

Technical Paper Publication: ICONE31-135128

Zixuan Wang - Tsinghua University

Yuanbing Zhu - China Nuclear Power Technology Research Institute Co., Ltd.

Yan Wang - Tsinghua University

Multi-Physics Coupling Simulation of a Small Floating Lead-Cooled Fast Reactor Based on OpenMC and Gen-Foam

Technical Paper Publication: ICONE31-135154

Haochen Huang - North China Electric Power University

Fei Xie - North China Electric Power University

Yu Liu - North China Electric Power University

Daogang Lu - North China Electric Power University

Tripoli-4® Monte Carlo Code Verification and Validation Using T4G Display Tool

Technical Paper Publication: ICONE31-135213

Yi-Kang Lee - CEA

François-Xavier Hugot - CEA





#### WEDNESDAY, 8/7/2024

Time	Title	Room	Investigation of LSTM and AutoML-Based Models for the Real-Time Diagnosis of PWR LOCA Accident Progression
8:30AM - 10:00AM	ICONE Technical Session	See App for specific locations	Technical Paper Publication: ICONE31-134780
			Johndel Obra - The University of Tokyo
10:00AM - 7:00PM	EXPO Open	Congress Hall Foyer, Lower Level	Shuichiro Miwa - The University of Tokyo
			Koji Okamoto - The University of Tokyo
10:00AM - 10:30AM	Refreshment Break	Congress Hall Foyer, Lower Level	Transport Characteristics of Two-Phase Flow in Rod Bundle Channels With a Spacer Grid
			Technical Paper Publication: ICONE31-134834
10:30AM - 12:00PM	Panel Sessions	See App for specific locations	Jiaxing Ren - Harbin Engineering University
			Ruohao Wang - Harbin Engineering University
12:00PM - 1:00PM	Ticketed Lunch	Atrium Restau- rant	Fangdong Wang - Harbin Engineering University
			Shouxu Qiao - Harbin Engineering University
1:00PM - 2:30PM	Panel Sessions	See App for spe- cific locations	Sichao Tan - Harbin Engineering University
2.20014 2.00014	B.C. I B. I.		Ruifeng Tian - Harbin Engineering University
2:30PM - 3:00PM	Refreshment Break	Congress Hall Foyer, Lower Level	Puzhen Gao - Harbin Engineering University
3:00PM - 4:30PM	ICONE Technical Session	See App for spe-	Reliability Quantification of Passive Containment Cooling System Through Response Surface Methodology
4:45PM - 6:15PM	ICONE Technical Session	See App for spe- cific locations	Technical Paper Publication: ICONE31-134863
			Chen Shikang - Xi'an Jiaotong University
6:00PM - 7:00PM	Student Awards/Track	TBD	Chen Ronghua - Xi'an Jiaotong University
5.551 W 7.551 W	Chair Reception		Qiu Suizheng - Xi'an Jiaotong University

15-06

8/7/2024 8:30AM-10:00AM - Karlin 2

Chair: Shripad Revankar - Purdue University Co-Chair: Salvatore Cancemi - University of Pisa Co-Chair: Koji Fujikura - Tohoku University

Neural Network-Driven Methodology for Predictive Health Monitoring and Aging Management in Nuclear Power Plant Operations

Technical Paper Publication: ICONE31-134685 Salvatore Angelo Cancemi - University of Pisa Michela Angelucci - University of Pisa Rosa Lo Frano - University of Pisa Sandro Paci - University of Pisa Anomaly Detection of Thermal System Using CAE-DDQN Model

Technical Paper Publication: ICONE31-134870
Tong Li - Harbin Engineering University
Jiahao Cheng - Harbin Engineering University
Bo Wang - Harbin Engineering University
Sichao Tan - Harbin Engineering University
Ruifeng Tian - Harbin Engineering University

Neutronics Design of Molten Salt Reactor for Transmutation of Various Radioactive Nuclides Technical Paper Publication: ICONE31-134875

Koji Fujikura - Tohoku University Naoto Aizawa - Tohoku University





15-09

8/7/2024 8:30AM-10:00AM - Palmovka 1

Chair: Shripad Revankar - Purdue University Co-Chair: Defang Mu - Xi'an Jiaotong University

Co-Chair: Seda Yilmaz Kaygisiz -

Ultrasonic Doppler Velocimetry (UDV) for Cold Shock Transients in a Scaled Liquid Metal Cooled Reactor Plenum

Technical Paper Publication: ICONE31-135269

Broderick Sieh - Purdue University Hitesh Bindra - Purdue University

Investigating the Motion Characteristics of Complex-Shaped Foreign Objects on the Secondary Side of a Steam

Generator Based on CFD-DEM Method

Technical Paper Publication: ICONE31-135345

Defang Mu - Xi'an Jiaotong University Jie Rong - Xi'an Jiaotong University Mingjun Wang - Xi'an Jiaotong University

Wenxi Tian - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

Guanghui Su - Xi'an Jiaotong University

Research on Multi-Scale Coupling Program Based on Lead Bismuth Fast Reactor

T | 1 | 10 | 10 | 100

Technical Paper Publication: ICONE31-135354

Yixin Zhang - Xi'an Jiaotong University

Chenglong Wang - Xi'an Jiaotong University

Jiaxin Zhang - Xi'an Jiaotong University

Wenxi Tian - Xi'an Jiaotong University

S.Z. Qiu - Xi'an Jiaotong University

G.H. Su - Xi'an Jiaotong University

Control Scheme of Cogeneration Nuclear Power Plant Based on the "Turbine Follows Heating" Operation Mode

Technical Paper Publication: ICONE31-135376

Ru Zhang - Xi'an Jiaotong University

Nan Zhang - China Nuclear Power Engineering Co., Ltd.

Mengxiao Yan - Xi'an Jiaotong University Peiwei Sun - Xi'an Jiaotong University Xinyu Wei - Xi'an Jiaotong University Investigating the Impact of Various Molten Salt Combinations on Reactor Criticality and Thermal Neutron

Flux Distribution in SD-TMSR

Technical Paper Publication: ICONE31-135393

Seda Yilmaz - Purdue University

Shripad Revankar - Purdue University

Yunlin Xu - Purdue University

Numerical Analysis of Three-Dimensional Flow Field Impact of Sodium Fast Reactor in Core Disruptive Accident

Technical Paper Publication: ICONE31-135397

Jian Zhao - Xi'an Jiaotong University

Jing Zhang - Xi'an Jiaotong Univesity

Yingwei Wu - Xi'an Jiaotong University

Guanghui Su - Xi'an Jiaotong University

Wenxi Tian - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

15-12

8/7/2024 8:30AM-10:00AM - Palmovka 2

Chair: Shripad Revankar - Purdue University

Co-Chair: Ondřej Lachout - Czech Technical University

in Prague

Co-Chair: Noura Elsalamouny - Lithuanian Energy Institute

Analysis of Operational Characteristics of a Small Modular

Reactor With Accident Tolerant Fuel

Technical Paper Publication: ICONE31-136104

Ondřej Lachout - Czech Technical University in Prague

Pavel Suk - Czech Technical University in Prague

Experimental Study of Bubble Migration Characteristics in MCCI Melt Pool

Technical Paper Publication: ICONE31-136126

Guorui Yang - Xi'an Jiaotong University

Jing Zhang - Xi'an Jiaotong University

Yingwei Wu - Xi'an Jiaotong University

Yanan He - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University





Guanghui Sui - Xi'an Jiaotong University Wenxi Tian - Xi'an Jiaotong University

Perform High Temperature and Pressure CHF Experiment Bench Under Six Degrees of Freedom Motion Condition

Technical Paper Publication: ICONE31-136135

Binzhuo Xia - Xi'an Jiaotong University

Fanting Xia - Xi'an Jiaotong University

Yiming Yang - Xi'an Jiaotong University

Kui Zhang - Xi'an Jiaotong University

Ronghua Chen - Xi'an Jiaotong University

Wenxi Tian - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

Influence of Multi-Hole Sparger Geometry on the Chugging

Technical Paper Publication: ICONE31-136169

Luca Berti - University of Pisa

Rosa Lo Frano - University of Pisa

Francesco D'Errico - University of Pisa

Donato Aguaro - University of Pisa

Effect of Neutron Leakage on Equilibrium U-Pu and Th-U Cycle for 16 Selected Reactors

Technical Paper Publication: ICONE31-136237

Josef Sabol - Paul Scherrer Institute / Czech Technical

University in Prague

Jiří Křepel - Paul Scherrer Institute

Modeling of Quench-06 and Quench-20 Experiments Using

Severe Accident Code RELAP/SCDAPSIM

Technical Paper Publication: ICONE31-136274

Noura Elsalamouny - Lithuanian Energy Institute

Tadas Kaliatka - Lithuanian Energy Institute

Algirdas Kaliatka - Lithuanian Energy Institute

07-05: Experiments and Analyses - IV

8/7/2024 8:30AM-10:00AM - Liben 3

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Yasuhiro Kawahara - Kimura Chemical Plants

Co., Ltd.

Co-Chair: Ayodeji Ala - Southwest University of Science and

**Technology** 

Co-Chair: Tomio Okawa - The University of Electro-

Communication

Experimental Study on Emergency Discharge Characteristics of Medical Isotope Test Reactor

Technical Paper Publication: ICONE31-135452

Hang Liu - Nuclear Power Institute of China

Liangming Pan - Chongqing University

Yulong Zhang - Nuclear Power Institute of China

Shiwen Liu - Nuclear Power Institute of China

Jianyong Lai - Nuclear Power Institute of China

Qing Li - Nuclear Power Institute of China

Advanced Radioactive Material Removal System Using Silver Zeolite (8) Development of High Temperature/

Normal Pressure Test Equipment

Technical Paper Publication: ICONE31-135455

Yasuhiro Kawahara - Kimura Chemical Plants Co., Ltd.

Tadashi Narabayashi - Tokyo Institute of Technology

Koji Endo - Rasa Industries, Ltd.

Yoshihiro Ishikawa - Rasa Industries, Ltd.

Sanshiro Kobayashi - Morimura Bros, Inc.

Experimental Study on Characteristics of Entrained Droplets and Liquid Film at Swirler Outlet in Swirl-Vane

Separator

Technical Paper Publication: ICONE31-135520

Ruiq Kang - Shanghai Jiao Tong University

Zhengin Xiong - Shanghai Jiao Tong University



Experimental Investigation of Early Response of Hot Water Rapid Blowdown in Separated Pipeline

Technical Paper Publication: ICONE31-135529 Xiaoqiang He - Harbin Engineering University Puzhen Gao - Harbin Engineering University Ze Zhang - Harbin Engineering University Jianjun Wang - Harbin Engineering University

Experimental Study of the Effect of Pulsatile Flow on Corner Vortices at the Sudden Contraction Before the Inlet of Two Parallel Narrow Rectangular Channels

Technical Paper Publication: ICONE31-135587

Ayodeji Ala - Southwest University of Science and Technology

Bin Ye - Southwest University of Science and Technology

07-07: Experiments and Analyses - VI

8/7/2024 8:30AM-10:00AM - Palmovka 3

Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Christopher Balbier - Pennsylvania State University

Co-Chair: Shigeo Hosokawa - Kansai University

Co-Chair: Hiroaki Nakanishi - Mitsubishi Heavy Industries, Ltd.

Experimental Study on Bubble Rising Behavior in Low-Temperature Molten LBE With Ultrasonic Doppler Velocimetry

Technical Paper Publication: ICONE31-136650
Hui Cheng - Harbin Engineering University
Jiayuan Li - Harbin Engineering University
Minyang Gui - Harbin Engineering University
Songbai Cheng - Harbin Engineering University
Zhaolong Li - Sun Yat-sen University

Experimental Investigation on Void Fraction Measurement in High-Temperature and High-Pressure Gas-Liquid Two-Phase Flow

Technical Presentation Only: ICONE31-134244
Yoshiteru Komuro - Mitsubishi Heavy Industries, Ltd.
Hiroaki Nakanishi - Mitsubishi Heavy Industries, Ltd.
Seiho Utsumi - Mitsubishi Heavy Industries, Ltd.
Yoshiyuki Kondo - Mitsubishi Heavy Industries, Ltd.
Takashi Ueno - Mitsubishi Heavy Industries, Ltd.

Experimental Study on the Operational Stability of Passive Residual Heat Removal System

Technical Presentation Only: ICONE31-135743 Quanbin Zhao - Xi'an Jiaotong University Huchen Han - Xi'an Jiaotong University

Flow Characteristics of Turbulent Bubbly Flow in 2×2 Rod Bundle

Technical Presentation Only: ICONE31-136714 Shigeo Hosokawa - Kansai University Akio Tomiyama - Kobe University

Annular Flow in the Rectangular Channel
Technical Presentation Only: ICONE31-138262
Quan-Yao Ren - Nuclear Power Institute of China
Zengping Pu - Nuclear Power Institute of China
Qingche He - Chongqing University
Hui He - Shanghai Jiaotong University
Haidong Liu - Chongqing University of Technology
Zhong Xiao - Nuclear Power Institute of China

Liang-Ming Pan - Chongqing University

Experimental Study on the Liquid Film Behaviors of

High Temperature Gas Velocity Profile Measurement Using Fiber Optic Hot Wire Velocimetry Technical Paper Publication: ICONE31-136503 Christopher Balbier - Pennsylvania State University Scout Bucks - Pennsylvania State University

Matthew Leoschke - Pennsylvania State University
Federico Scurti - Pennsylvania State University
Saya Lee - Pennsylvania State University





02-06: Fabrication, Fuel Cycle, Shielding, Storage - II

8/7/2024 8:30AM-10:00AM - Palmovka 4

Chair: Hakan Ozaltun - U.S. Nuclear Regulatory Commission

Co-Chair: Yuezhou Wei - University of South China Co-Chair: Xuesong Yan - Chinese Academy of Sciences

An Advanced Aqueous Reprocessing System for MOX-Fuel Based on Anion Exchange and Electrolytic Reduction

Technical Presentation Only: ICONE31-135590

Yuezhou Wei - University of South China Shunyan Ning - University of South China

Xiaobiao Yin - University of South China

Study on Long-Life Minor Actinide Temporary Storage Scheme Based on High-Level Liquid Waste Partitioning Strategy

Technical Paper Publication: ICONE31-135666

Meng Wei - CNNC Long'an Co. Ltd. Xiantao Meng - CNNC Long'an Co. Ltd.

Characteristics of Irradiation Production of Radioisotope in an Ultra-High Flux Research Reactor

Technical Paper Publication: ICONE31-135558

Jian Li - Tsinghua University

Wei Xu - North China Electric Power University

Jing Zhao - Tsinghua University Zhihong Liu - Tsinghua University Ding She - Tsinghua University Heng Xie - Tsinghua University

Lei Shi - Tsinghua University

Comparison of EQL0D V2 and V4 Procedures by Means of Equilibrium U-Pu and Th-U Cycles in 16 Selected Reactors

Technical Paper Publication: ICONE31-136218

Jiří Křepel - Paul Scherrer Institute

Francis Borys - Paul Scherrer Institute

Josef Sabol - Paul Scherrer Institute / Czech Technical

University in Prague

Evžen Losa - Czech Technical University in Prague

Effect of Fission Products on Equilibrium U-Pu and Th-U Cycle for 16 Selected Reactors

Technical Paper Publication: ICONE31-136232

Josef Sabol - Paul Scherrer Institute / Czech Technical University in Prague

Francis Borys - Paul Scherrer Institute

Jiří Křepel - Paul Scherrer Institute

Simulation Calculation of the Utilization Rate of Uranium

Resources on the ADANES Fuel Cycle

Technical Paper Publication: ICONE31-130623

Xuesong Yan - Chinese Academy of Sciences

Yucui Gao - Chinese Academy of Sciences

Yaling Zhang - Chinese Academy of Sciences

Lei Yang - Chinese Academy of Sciences

03-03: Reliability and Safety Systems

8/7/2024 8:30AM-10:00AM - Karlin 1

Chair: Brian Fant - Bechtel

United States Nuclear Regulatory Commission Modernization Efforts to Enable the Safe Use of Digital Instrumentation and Controls in Nuclear Power Plant

Safety Systems

Technical Paper Publication: ICONE31-135026

Samir Darbali - U.S. Nuclear Regulatory Commission

Dinesh Taneja - U.S. Nuclear Regulatory Commission

Erick Martinez Rodriguez - U.S. Nuclear Regulatory

Commission

Gilberto Blas Rodriguez - U.S. Nuclear Regulatory

Commission

Research on Operating Reliability of Multi-Modular HTR Nuclear Power Plant Based on Equipment State

Technical Paper Publication: ICONE31-135387

Chao Guo - Tsinghua University

Jianghai Li - Tsinghua University

Qianqian Jia - Tsinghua University

Ronghong Qu - Tsinghua University

Xiaojin Huang - Tsinghua University





Optimal Sensor Placement in Nuclear Power Steam Water System Based on Signed Directed Graph

Technical Paper Publication: ICONE31-135960

Tianyang Xing - Southeast University

Chunyang Zeng - Southeast University

Bin Han - Southeast University

Mudi Jiang - Southeast University

Yunze He - Southeast University

Shenghui Liu - Southeast University

Junling Huang - Southeast University

Xialiang Zhu - Southeast University

Suppression of Harmonic Vibration in AMB System Using Nonlinear Adaptive Resonant Controllers

Technical Paper Publication: ICONE31-135983

Xiaoyu Bian - Tsinghua University

Zhengang Shi - Tsinghua University

Ni Mo - Tsinghua University

Zhe Sun - Tsinghua University

Response Analysis and Load Optimization of HTR-PM Rotor System

Technical Presentation Only: ICONE31-135993

Tang Xiaoxuan - Tsinghua University

Zhao Lei - Tsinghua University

12-03 Risk Assessments and Management - Session 3

8/7/2024 8:30AM-10:00AM - Karlin 3

Chair: Arun Veeramany - Pacific Northwest National Laboratory

Co-Chair: Hidemasa Yamano - Japan Atomic Energy Agency

Co-Chair: Mahesh Pandey - University of Waterloo

Co-Chair: Anton Prins - Risk Management and Consultancy

Co-Chair: Arnold Yuan - Ryerson University

Co-Chair: Ivan Vrbanic - APoSS d.o.o.

Co-Chair: Jaroslav Holy - UJV Řež, a.s.

Co-Chair: Yoshihisa Nishi - Central Research Institute of

**Electric Power Industry** 

Co-Chair: Zhegang Ma - Idaho National Laboratory

Co-Chair: Wei Deng - China Nuclear Power Engineering

Co., Ltd.

Co-Chair: Thomas Vogan - Sargent & Lundy

Co-Chair: Tao Yu -

Co-Chair: He Wang - Harbin Engineering University

Co-Chair: Xinli Yu - China Nuclear Power Engineering Co.,

Ltd.

Typical Sequence Analysis of SLOCA Accidents in a Third Generation Nuclear Power Plant Based on RISMC Method

Technical Paper Publication: ICONE31-135096

Churan Feng - China Nuclear Power Engineering Co., Ltd.

Jingxiang Zhan - China Nuclear Power Engineering Co. ,Ltd.

Lin Yan - China Nuclear Power Engineering Co., Ltd.

Yiming Wang - China Nuclear Power Engineering Co., Ltd.

Jinghua Zhou - China Nuclear Power Engineering Co., Ltd.

Research and Application of Parameter Verification Technology for Health Monitoring of NPP I&C Board Based on Field Fault Analysis

Technical Paper Publication: ICONE31-135305

Xiaopeng Zhao - China Techenergy Co., Ltd.

Guilian Shi - China Techenergy Co., Ltd.

Hongwei Pei - China Techenergy Co., Ltd.

Fangjie Wu - China Techenergy Co., Ltd.

Yongbin Sun - China Techenergy Co., Ltd.

Human Reliability Analysis for a Passive NPP and Application in Plant Operating Procedure Optimization

Technical Paper Publication: ICONE31-135379

Yongping Qiu - Shanghai Nuclear Engineering Research & Design Institute Co., Ltd.

Xiao Tan - Shanghai Nuclear Engineering Research & Design Institute Co., Ltd.

Study on Realistic Evaluation of Source Term in Level 2 PRA

Technical Presentation Only: ICONE31-135815

Yoshihisa Nishi - Central Research Institute of Electric Power Industry

Masaaki Satake - Central Research Institute of Electric Power Industry

Koichi Nakamura - Central Research Institute of Electric Power Industry

Satoshi Nishimura - Central Research Institute of Electric Power Industry





Quantifying Software Safety in Nuclear Power Plants: A Framework for Requirements Phase Assessment

Technical Paper Publication: ICONE31-135382

Boyuan Li - Tsinghua University

Duo Li - Tsinghua University

Jianghai Li - Tsinghua University

Chao Guo - Tsinghua University

Huasheng Xiong - Tsinghua University

Shuqiao Zhou - Tsinghua University

Xiaojin Huang - Tsinghua University

The Mission Time Analysis in Level 2 Probabilistic Safety Assessment of the Third-Generation Nuclear Power Plant

Technical Paper Publication: ICONE31-135680

Shujie Guo - China Nuclear Power Engineering Co., Ltd.

Jing Liu - China Nuclear Power Engineering Co., Ltd.

Yubao Zhong - Xi'an Jiaotong University

13-03: Computer Code V&V - III

8/7/2024 8:30AM-10:00AM - Karlin 4

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Masaaki Tanaka - Japan Atomic Energy Agency

Co-Chair: Alessandro Bellomo - University of Pisa

Co-Chair: Timothy Valentine - Oak Ridge National

Laboratory

Verification of the RMC-SaraGR Nuclear Design Code System Based on the HTTR Benchmark

Technical Paper Publication: ICONE31-135368

Yuan Yuan - China Nuclear Power Engineering Co., Ltd.

Guoming Liu - China Nuclear Power Engineering Co., Ltd.

Peng Zhang - China Nuclear Power Engineering Co., Ltd.

OECD-NEA Expert Group on Reactor Systems Multi-Physics

Technical Paper Publication: ICONE31-136161

Timothy Valentine - Oak Ridge National Laboratory

Evgeny Ivanov - Institute for Radiological Protection and

Nuclear Safety

Kostadin Ivanov - North Carolina State University

Alessandro Petruzzi - Nuclear and Industrial Engineering S.R.L.

Maria Avramova - North Carolina State University

Mathieu Hursin - Ecole Polytechnic Federal de Lausanne

Oliver Buss - Nuclear Energy Agency

Simmer-III Code Simulation of High-Pressure Water-Lead Interaction in Westinghouse's Lewin Test Facility

Technical Paper Publication: ICONE31-136222

Alessandro Bellomo - University of Pisa

Mattia Massone - Agenzia Nazionale per le Nuove Tecnologie, L'Energia e lo Sviluppo Economico Sostenibile (ENEA)

Simone Gianfelici - Agenzia Nazionale per le Nuove Tecnologie, L'Energia e lo Sviluppo Economico Sostenibile (FNFA)

Fabio Martini - Westinghouse Electric Company UK Limited

Sung Jin Lee - Fauske and Associates

Mariano Tarantino - Agenzia Nazionale per le Nuove Tecnologie, L'Energia e lo Sviluppo Economico Sostenibile (ENEA)

Francesco Galleni - University of Pisa

Andrea Pucciarelli - University of Pisa

Alessio Pesetti - University of Pisa

Pure Lead Thermodynamic Properties in Simmer-Iii Code: A Comparative Review and New Evaluation Proposal

Technical Paper Publication: ICONE31-136243

Alessandro Bellomo - University of Pisa

Mattia Massone - Agenzia Nazionale per le Nuove Tecnologie, L'Energia e lo Sviluppo Economico Sostenibile (ENEA)

Simone Gianfelici - Agenzia Nazionale per le Nuove Tecnologie, L'Energia e lo Sviluppo Economico Sostenibile (ENEA)

Koji Morita - Kyushu University

Mariano Tarantino - Agenzia Nazionale per le Nuove Tecnologie, L'Energia e lo Sviluppo Economico Sostenibile (ENEA)

Alessio Pesetti - University of Pisa

Vittorio Cossu - University of Pisa

Andrei Rineiski - Karlsruhe Institute of Technology



Development and Verification of a Few-Group Parameters Calculation Code TMSR-Link for Molten Salt Reactor

Technical Paper Publication: ICONE31-136987

Kailong Wang - Chinese Academy of Sciences

Yong Cui - Chinese Academy of Sciences

Chunyan Zou - Chinese Academy of Sciences

Jingen Chen - Chinese Academy of Sciences

Xiangzhou Cai - Chinese Academy of Sciences

Development of a Spatial Dynamics Model Based on Semi-Analytic Nodal Method

Technical Paper Publication: ICONE31-137006

Yong Cui - Chinese Academy of Sciences

Jingen Chen - Chinese Academy of Sciences

Jianhui Wu - Chinese Academy of Sciences

Wei Guo - Chinese Academy of Sciences

Xiangzhou Cai - Chinese Academy of Sciences

07-12: SMR and Advanced Reactors - I

3:00PM-4:30PM - Palmovka 1 8/7/2024

Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Wang Zhenlan - Xi'an Jiaotong University Co-Chair: Wang Dexin - Tsinghua University

Transient Analysis of the Loss of Heat Sink Accident in a New Type of Megawatt Heat Pipe Reactor

Technical Paper Publication: ICONE31-131056

Wang Zhenlan - Xi'an Jiaotong University

Gou Junli - Xi'an Jiaotong University

Yuan Leqi - Xi'an Jiaotong University

Shan Jianqiang - Xi'an Jiaotong University

Study on Friction and Wear Performance of Flow-Blocking Packing for High-Temperature Gas-Cooled Reactor

Technical Paper Publication: ICONE31-132043

Dexin Wang - Tsinghua University

Qi Min - Tsinghua University

Yuanyuan Ma - Tsinghua University

Li Shi - Tsinghua University

Xiaowei Li - Tsinghua University

Zhengming Zhang - Tsinghua University

Libin Sun - Tsinghua University

Optimal Design of Supercritical CO2 Power Cycle for High

Temperature Gas-Cooled Reactor

Technical Paper Publication: ICONE31-133714

Yujia Zhou - Xi'an Thermal Power Research Institute Co.,

Ltd.

Yifan Zhang - Xi'an Thermal Power Research Institute Co.,

Hongzhi Li - Xi'an Thermal Power Research Institute Co.,

Mingyu Yao - Xi'an Thermal Power Research Institute Co.,

Ltd.

Temperature Flied Rapid Estimation of Space Nuclear Thermionic Reactor Based on Reduced-Order Model

Technical Paper Publication: ICONE31-134267

Shuo Liu - Xi'an Jiaotong University

Chenglong Wang - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

Wenxi Tian - Xi'an Jiaotong University

Guanghui Su - Xi'an Jiaotong University

Study on Reactor Cavity Cooling System of HTR-PM in DLOFC Accident With TIN-RCCS Code and Spectra Code

Technical Paper Publication: ICONE31-134275

Xinsheng Xu - Tsinghua University

Yiyang Ye - CAEP Software Center for High Performance

Numerical Simulation

Yanhua Zheng - Tsinghua University

M. Stempniewicz Marek - Nuclear Research & Consultancy

Group

Effect of Geometric Parameters on Cooling Performance of the Concrete Shielding for Swimming Pool-Type Low-

Temperature Heating Reactor

Technical Paper Publication: ICONE31-134626

Guangming Fan - Harbin Engineering University

Shuai Hao - Harbin Engineering University

Zongkun Li - Harbin Engineering University

Jiaming Li - Harbin Engineering University

Shicong Guan - Harbin Engineering University





07-14: Single and Multi-Phase Flow - I

8/7/2024 3:00PM-4:30PM - Palmovka 3

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Haidong Liu - Chongqing University of Technology

Co-Chair: Shota Ueda - Central Research Institute of Electric Power Industry

Two-Phase Flow Distribution in 5x5 Rod Bundle During Boil-Off Process

Technical Paper Publication: ICONE31-124804

Shota Ueda - Central Research Institute of Electric Power Industry

Takahiro Arai - Central Research Institute of Electric Power Industry

Atsushi Ui - Central Research Institute of Electric Power Industry

Masahiro Furuya - Central Research Institute of Electric Power Industry

Riichiro Okawa - Central Research Institute of Electric Power Industry

Kenetsu Shirakawa - Central Research Institute of Electric Power Industry

Tadakatsu Yodo - Mitsubishi Heavy Industries, Ltd.

Two Phase Flow Interface Dynamic Behavior During CHF Transient

Technical Paper Publication: ICONE31-131755

Haidong Liu - Chongqing University of Technology

Qiao Zeng - Chongqing University of Technology

Degi Chen - Chongging University

A Mass Flow Rate Control System in the Novel Superheated Steam Supply System of NHR200-II

Technical Paper Publication: ICONE31-131786

Zongyang Li - Tsinghua University

Wentao Hao - Tsinghua University

Wenwen Zhang - Tsinghua University

Weihua Li - Tsinghua University

Xingtuan Yang - Tsinghua University

Flow Regime Visualization of Wet Steam Flow in a Horizontal Circular Pipes Having Different Diameter

Technical Paper Publication: ICONE31-132427

Yuta Uchiyama - Central Research Institute of Electric Power Industry

Ryo Morita - Central Research Institute of Electric Power Industry

Time-Domain Nonlinear Investigation of Two-Phase Flow Instability in HTGR OTSG Using Simulink

Technical Paper Publication: ICONE31-132493

Yang Su - Tsinghua University

Xiaowei Li - Tsinghua University

Xinxin Wu - Tsinghua University

Study on Fluid-Elastic Instability of Tube Bundles in Cross Flow Based on Spatiotemporal Coherence

Technical Paper Publication: ICONE31-134205

Yuxuan Cheng - Chongging University

Shanshan Bu - Chongqing University

Guo Kai - Yanshan University

Degi Chen - Chongging University

07-15: Single and Multi-Phase Flow - II

8/7/2024 3:00PM-4:30PM - Palmovka 4

Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Tan Bing - Harbin Engineering University

Co-Chair: Scott Franz - Framatome Inc.

Bubble Features on SiC Surfaces in Flow Boiling

Technical Paper Publication: ICONE31-134786

Tan Bing - Harbin Engineering University

Haoliang Ren - Harbin Engineering University

Rulei Sun - Harbin Engineering University

Songbai Cheng - Harbin Engineering University



Research on the Natural Circulation Ability of Lead-Bismuth-Steam-Water Direct Contact Multiphase Flow

Technical Paper Publication: ICONE31-134853

Xiaoyao Ma - China institute of Atomic Energy

Daoxi Cheng - China Institute of Atomic Energy

Weiming Zhai - China Institute of Atomic Energy

Song Yu - China Institute of Atomic Energy

Mingdi Xing - China Institute of Atomic Energy

Ruizhi Li - China Institute of Atomic Energy

Ping Zhou - China Institute of Atomic Energy

Weilong Gao - China Institute of Atomic Energy

Investigation of Reverse Flow in the Passive Residual Heat Removal System of NHR-200II

Technical Paper Publication: ICONE31-135702

Yiwa Geng - China Nuclear Power Engineering Co., Ltd.

Ziyi Li - Shandong Institute of Advanced Technology

Xiongbin Liu - Tsinghua University

Shuliang Huang - China Nuclear Power Engineering Co.,

Ltd.

Haiqi Qin - of Tsinghua University

Flow Dynamics in a Fuel Bundle With a Particle Bed

Technical Paper Publication: ICONE31-136239

Scott Franz - Framatome Inc.

Gordon Wissinger - Framatome Inc.

X-Ray Imaging of Two Phase Natural Circulation With Seawater

Technical Presentation Only: ICONE31-135710

Broderick Sieh - Purdue University

Hitesh Bindra - Purdue University

Flow Boiling CHF Enhancement Using Honeycomb Porous

Structure With Two-Layer Structure

Technical Presentation Only: ICONE31-136501

Shoji Mori - Kyushu University

02-07: Methods Development, Computational Approaches - I

8/7/2024 3:00PM-4:30PM - Karlin 1

Chair: Hakan Ozaltun - U.S. Nuclear Regulatory Commission

Co-Chair: Xiang Wang - Harbin Engineering University Co-Chair: Yuancheng Zhou - Xi'an JiaoTong University

Fast Solution of Schroedinger Equation Based on Complex One-Dimensional Potential Wells

Technical Paper Publication: ICONE31-137072

Zihao Liu - Harbin Engineering University

Xiang Wang - Harbin Engineering University

A Preconditioning Method Based on Strongly Implicit Procedure for the Multi- Diagonal Equation

Technical Paper Publication: ICONE31-133656

Bo Tan - Tsinghua University

Haojie Zhang - Tsinghua University

Yutong Wen - Tsinghua University

Ding She - Tsinghua University

Multi-Mesh Approach for Geometry-Independent Neutronic/Thermal-Hydraulics Coupling Analyses Using

RMC and Ansys Fluent

Technical Paper Publication: ICONE31-133607

Xingyu Zhao - Tsinghua University

Guodong Liu - Tsinghua University

Shanfang Huang - Tsinghua University

Qiaoyan Chen - China Nuclear Power Engineering Co., Ltd.

Hao Luo - Tsinghua University

Ying He - Tsinghua University

Junren Hou - Tsinghua University

Kan Wang - Tsinghua University

Kriging Surrogate Modelling of Multiplication Factor With Random Effect

Technical Paper Publication: ICONE31-136647 Yizhen Wang - Harbin Engineering University

Chen Hao - Harbin Engineering University





High-Order Harmonics Calculation for the Power Reconstruction of 3D Pin-Scale Whole-Core

Technical Paper Publication: ICONE31-136320

Zhinan Xie - Harbin Engineering University

Chen Hao - Harbin Engineering University

Wen Yin - Harbin Engineering University

Bamboo-Frame: An Automatic Modeling Tool for the Two-

Step Reactor Core Physics Analysis

Technical Paper Publication: ICONE31-135358

Yuancheng Zhou - Xi'an: JiaoTong University

Yunzhao Li - Xi'an JiaoTong University

Yisong Li - Xi'an JiaoTong University

Yilin Liang - Xi'an JiaoTong University

Hengrui Zhang - Xi'an JiaoTong University

Shilong Zhou - Xi'an JiaoTong University

Weiguo Wang - Xi'an JiaoTong University

Yuxiang Ou - Xi'an JiaoTong University

03-04: Advanced Control Strategies

8/7/2024 3:00PM-4:30PM - Karlin 3

Chair: Brian Fant - Bechtel

A Fuzzy Control Method for Adjusting the Peak Value of Power Axial Distribution Based on Distributed Parameter

Model

Technical Paper Publication: ICONE31-135044

Airan Dang - Harbin Engineering University

Bowen Tu - Harbin Engineering University

Xiuchun Luan - Harbin Engineering University

Control Rod Cooperative Control Strategy Based on

Multipoint Reactor Model

Technical Paper Publication: ICONE31-135073

Bowen Tu - Harbin Engineering University

Airan Dang - Harbin Engineering University

Xiuchun Luan - Harbin Engineering University

Pid Parameter Tuning Method for Steam Generator Level Control System Optimization Data Based on Ant Colony Optimization Algorithm

Technical Paper Publication: ICONE31-136009

Yulong Wang - Xi'an Jiaotong University

Xinyu Wei - Xi'an Jiaotong University

Peiwei Sun - Xi'an Jiaotong University

A Coordinated Control Strategy for NHR200-II Under Load

Rejection Condition

Technical Paper Publication: ICONE31-136013

Canxing Huang - Tsinghua University

Huasheng Xiong - Tsinghua University

Zhe Dong - Tsinghua University

Boyuan Li - Tsinghua University

Shuqiao Zhou - Tsinghua University

Simulation Study of Turbine Trips Without Scram for CPR1000 Nuclear Power Plant Employing MSHIM Control

Technical Paper Publication: ICONE31-134523

Shifa Wu - Xi'an Jiaotong University

Yunzhi Chai - Xi'an Jiaotong University

Jiashuang Wan - Xi'an Jiaotong University

04-04: SMRs, Advanced Reactors, and Fusion

8/7/2024 3:00PM-4:30PM - Florenc 2

Chair: Rosa Lo Frano - University of Pisa

Exergy Analysis of a Small Modular Reactor Nuclear Power Plant Under Constant and Pure Sliding Pressure Operation

Technical Paper Publication: ICONE31-130713

Xin Wang - Tsinghua University

Gang Zhao - Tsinghua University

Xinhe Qu - Tsinghua University

Xiaoyong Yang - Tsinghua University

Jie Wang - Tsinghua University



The Prospects of Small Modular Reactor Development and Application in China Based on the User Requirements

Technical Paper Publication: ICONE31-132001

Sheng Zhu - Nuclear Power Operation Research Institute,

Zhen Yan - Nuclear Power Operation Research Institute, Itd.

Time Series Modeling and Stochastic Techno-Economic Analysis of Advanced Nuclear Energy Systems Under **Growing Penetration of Renewables** 

Technical Presentation Only: ICONE31-147500

Hailei Wang - Utah State University

Application of Global Importance Measures in Risk-Informed Safety Margin Characterization (RISMC) for Dynamic Safety Analysis

Technical Paper Publication: ICONE31-136084

Liye Ma - Harbin Engineering University

He Wang - Harbin Engineering University

Longcong Wang - Harbin Engineering University

Multiphysics Coupling Analysis of an FCM-Fueled Gas-Cooled Microreactor

Technical Paper Publication: ICONE31-124442

Jipu Hu - Shanghai Jiaotong University

Yuyang Shen - Shanghai Jiao Tong University

Ruixiang Wang - Shanghai Jiao Tong University

Kuaiyuan Feng - Shanghai Jiao Tong University

Lei Lou - Nuclear Power Institute of China

Hui Guo - Shanghai Jiao Tong University

Dynamic Modeling and Characteristic Analysis of Microreactor Coupled With Closed Helium Brayton Cycle

Technical Paper Publication: ICONE31-133388

Xuyao Geng - Institute of Nuclear and New Energy

Technology

Jie Wang - Institute of Nuclear and New Energy Technology

04-10: SMRs, Advanced Reactors and Fusion

3:00PM-4:30PM - Karlin 4 8/7/2024

Chair: Rosa Lo Frano - University of Pisa

Development of a Liquid Metal Subchannel Code Used in Ocean Conditions and Study the Heat Transfer Characteristics in Rod Bundle of Reactor Core

Technical Paper Publication: ICONE31-135935

Yuanyuan Yin - Southeast University

Bin Han - Southeast University

Xiaoliang Zhu - Southeast University

Siwei Qi - Southeast University

Shenghui Liu - Southeast University

Tianyang Xing - Southeast University

Bao-Wen Yang - DEQD Institute for Advanced Research in Multiphase Flow and Energy Transfer

Aiguo Liu - DEQD Institute for Advanced Research in Multiphase Flow and Energy Transfer

Dynamic Simulation of a Small Modular Sodium-Cooled Fast Reactor Coupled With Molten Salt Energy Storage System

Technical Paper Publication: ICONE31-136749

Jinrong Jin - Xi'an Jiaotong University

Jiashuang Wan - Xi'an Jiaotong University

Shifa Wu - Xi'an Jiaotong University

Areai Nuerlan - China Institute of Atomic Energy

The Experimental Research of Integrative SMR Using TEG for Power Generation

Technical Paper Publication: ICONE31-133679

Suhao Wang - Nuclear Power Institute of China

Yong Li - Nuclear Power Institute of China

Hui Xiao - Nuclear Power Institute of China

Liang Guo - Nuclear Power Institute of China

Ying Li - Nuclear Power Institute of China

Ruifan Lou - Nuclear Power Institute of China

Hairong Tang - Nuclear Power Institute of China





Practice and Validation of Harmonic Method for HTR-PM Power Distribution Monitoring

Technical Paper Publication: ICONE31-133881

Jinpeng Li - Tsinghua University

Jiong Guo - Tsinghua University

Fu Li - Tsinghua University

Chunlin Wei - Tsinghua University

AHPR1000: Simplified, Intelligent and Environmental-Friendly Advanced Nuclear Power Plant

Technical Paper Publication: ICONE31-135079

Yuxiang Wu - China Nuclear Power Engineering Co., Ltd.

Qianwen Liu - China Nuclear Power Engineering Co., Ltd.

Di Yao - China Nuclear Power Engineering Co., Ltd.

Guangfei Wang - China Nuclear Power Engineering Co.,

Simin Xu - China Nuclear Power Engineering Co., Ltd.

Yang Lu - China Nuclear Power Engineering Co., Ltd.

Chengcheng Wang - China Nuclear Power Engineering Co., Ltd.

Design and Analysis of a Soluble Boron Free Small Modular Pressurized Water Reactor Core by Using NECP-Bamboo

Technical Paper Publication: ICONE31-135088

Songzhe Wang - Xi'an Jiaotong University

Yunzhao Li - Xi'an Jiaotong University

Yisong Li - Xi'an Jiaotong University

Kang Li - Xi'an Jiaotong University

05-06: Optimization and Modeling Methods

8/7/2024 3:00PM-4:30PM - Liben 3

Chair: Fredrick McCrory - Sandia National Laboratories

Co-Chair: Brian Fant - Bechtel

Co-Chair: Alessandro Petruzzi - Nuclear and Industrial

Engineering

Co-Chair: Dmitry Grishchenko - KTH Royal Institute of

Technology

Co-Chair: Scott Sanborn - Sandia National Laboratories

Co-Chair: Takeshi Yamada - Hitachi-Ge Nuclear Energy,

Ltd.

Co-Chair: Tomohiko Ikegawa - Hitachi

Co-Chair: Hideki Horie - Toshiba Corp.

Co-Chair: Patrick Frias - U.S. Department of Energy

Co-Chair: Hongxing Yu - Nuclear Power Institute of China

Co-Chair: Si-chao Tan - Harbin Engineering University

Co-Chair: Ronghua Chen - Xi'An Jiao Tong University

Co-Chair: Songtao Ji -

An Iterational Physical Decoupling Method for Assessing

the Safety of Deformed Fuel Channels

Technical Paper Publication: ICONE31-130816

Junzheng Zheng - Tsinghua University

Musen Lin - Tsinghua University

Xingtuan Yang - Tsinghua University

Dinggu Wang - Tsinghua University

Songyang Li - Tsinghua University

Wentao Hao - Tsinghua University

Wei Xiong - Tsinghua University

Yueyuan Jiang - Tsinghua University

A Heuristic Algorithm for the Vulnerability Analysis of Physical Protection System

Technical Paper Publication: ICONE31-132046

Zixuan Wang - The Fourth Research and Design

Engineering Corporation of CNNC

Liang Ma - The Fourth Research and Design Engineering

Corporation of CNNC

Chenliang Yuan - The Fourth Research and Design

**Engineering Corporation of CNNC** 

Xiaocong Zhang - The Fourth Research and Design

Engineering Corporation of CNNC



Meixuan Wang - The Fourth Research and Design Engineering Corporation of CNNC

Vulnerability Analysis of Physical Protection System for Nuclear Facilities

Technical Paper Publication: ICONE31-132049

Guohai Zhao - State Nuclear Security Technology Center

Zixuan Wang - The Fourth Research and Design Engineering Corporation of CNNC

Liang Ma - The Fourth Research and Design Engineering Corporation of CNNC

Chenliang Yuan - The Fourth Research and Design Engineering Corporation of CNNC

Xiaocong Zhang - The Fourth Research and Design Engineering Corporation of CNNC

Ziyi Li - The Fourth Research and Design Engineering Corporation of CNNC

Research on Optimization Method of Personnel Evacuation Path Based on Evacuation Time and Radiation Risk

Technical Paper Publication: ICONE31-134745

Jiemin Zhang - China Nuclear Power Engineering Co., Ltd.

Jin Yan - China Nuclear Power Engineering Co., Ltd.

Jiaxuan Gao - China Nuclear Power Engineering Co., Ltd.

Qun Cao - China Nuclear Power Engineering Co., Ltd.

Nan Wu - China Nuclear Power Engineering Co., Ltd.

Na Xue - China Nuclear Power Engineering Co., Ltd.

Research on Monte Carlo-Neutron Section Cross Method Coupling Calculation Method of Neutron Radiation Field

Technical Paper Publication: ICONE31-135218

Qi Zhang - Harbin Engineering University

Heli Gong - Harbin Engineering University

Liye Liu - China Institute for Radiation Protection

Yushou Song - Harbin Engineering University

Qinjian Cao - China Institute for Radiation Protection

Jinlong Yong - Harbin Engineering University

Jiawen Hu - Harbin Engineering University

Density Functional Calculation of Adsorption of Po-Containing Gas on Ag Surface

Technical Presentation Only: ICONE31-136167

Man Jiang - Huazhong University of Science and Technology

Hui Du - Huazhong University of Science and Technology

Ao Gan - Huazhong University of Science and Technology

Muyi Ni - Sun Yat-sen University

Jiewei Wu - Sun Yat-sen University

01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV

8/7/2024 3:00PM-4:30PM - Karlin 2

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Pascal Duranton - Framatome

Co-Chair: Haofang Chong - Harbin Engineering University

Co-Chair: Jie Liu - Technische Universität München

Design and Calculation of Nuclear Heating System Utilizing a Molten Salt Heat Storage Circuit for Waste Heat

Absorption and Peak Regulation

Technical Paper Publication: ICONE31-134681

Haofang Chong - Harbin Engineering University

Ruojun Xue - Harbin Engineering University

Sen Wang - Harbin Engineering University

Yaowu Cao - Harbin Engineering University

Furu Jing - Harbin Engineering University

Analysis of Water Hammer in the Reactor Coolant System Based on Wave Tracking Method

Technical Paper Publication: ICONE31-134766

Qianping Zhang - China Nuclear Power Operation Technology Corporation

reciliology corporation

Shubiao Dong - China Nuclear Power Operation

**Technology Corporation** 

Xiaoyu Zhang - China Nuclear Power Operation

Technology Corporation





Research on Automatic Cable Layout Method for Nuclear Power Plant Based on A\* Algorithm

Technical Paper Publication: ICONE31-134799

Hailong Du - Harbin Engineering University

Jie Cheng - Harbin Engineering University

Jianjun Wang - Harbin Engineering University

Puzhen Gao - Harbin Engineering University

Xuchen Deng - China Nuclear Power Engineering Co., Ltd.

Kai Tang - China Nuclear Power Engineering Co., Ltd.

Lei Wang - China Nuclear Power Engineering Co., Ltd.

Jincheng Su - China Nuclear Power Engineering Co., Ltd.

Research on Sealing Performance and Electrical Performance of Low Voltage Electrical Penetrations Assembly in Containment After Severe Accidents

Technical Paper Publication: ICONE31-134800

Yanlu Wang - Harbin Engineering University

Xinli Yu - China Nuclear Power Engineering Co., Ltd.

Xiaxin Cao - Harbin Engineering University

Yu Liu - China Nuclear Power Engineering Co., Ltd.

Attention Mechanisms Based Advancing Interpretable Machine Learning Method for Nuclear Power Plant Fault Diagnosis

Technical Paper Publication: ICONE31-134882

Jie Liu - Technical University of Munich

Rafael Macián-Juan - Technical University of Munich

01-10: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - X

8/7/2024 3:00PM-4:30PM - Palmovka 2

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Pascal Duranton - Framatome

Co-Chair: Busra Buyrukcu - University of Liverpool

Co-Chair: Jiri Cerny - ÚJV Řež, a. s.

Research on Peaking System of Nuclear Power Plant Based on Energy Storage Scheme of Hydrogen Production and Ammonia Synthesis

Technical Paper Publication: ICONE31-136536

Lingyue Shi - Shanghai Nuclear Engineering Research & Design Institute

Cheng Ye - Shanghai Nuclear Engineering Research & Design Institute

Qinglun He - Tsinghua University

Hong Huang - Tsinghua University

The Improvement of the Spent Fuel Rack Design Using Different Neutron Absorber Materials

Technical Paper Publication: ICONE31-137004

Busra Buyrukcu - University of Liverpool

Eray Buyrukcu - Turkish Energy, Nuclear and Mineral Research Agency

Dzianis Litskevich - University of Liverpool

Karl Whittle - University of Liverpool

Investigating Elastic Shakedown Response of Sleeve-Reinforced 90° Back-to-Back Pipe Bends With Local Wall Thinning

Technical Presentation Only: ICONE31-132769

Nak-Kyun Cho - Seoul National University of Science and Technology

Gyeongyul Lee - Seoul National University of Science and Technology

Youngjae Choi - Seoul National University of Science and Technology

Do Kyun Kim - Seoul National University of Science and Technology

Development of the Hitachi Advanced Plant Performance Diagnosis System for Nuclear Power Plant Performance Monitoring: Application to Turbine Building Closed Cooling Water System

Technical Presentation Only: ICONE31-132997

Akinori Tamura - Hitachi Ltd.

Nobuyuki Shinohara - Hitachi-GE Nuclear Energy Ltd.

Norikazu Hamaura - Hitachi-GE Nuclear Energy Ltd.

Seiji Nemoto - Hitachi-GE Nuclear Energy Ltd.

Yuusuke Yamamoto - Chubu Electric Power Co., Inc.

Taketo Endou - Chubu Electric Power Co., Inc.

Ryou Kobayashi - Chubu Electric Power Co., Inc.



Development of the Hitachi Advanced Plant Performance Diagnosis System for Nuclear Power Plant Performance Monitoring: Development Program Overview, Application Examples to Heat Cycle and Turbine Component Cooling Water System

Technical Presentation Only: ICONE31-135591

Nobuyuki Shinohara - Hitachi GE Nuclear Energy, Ltd.

Akinori Tamura - Hitachi Ltd.

Norikazu Hamaura - Hitachi GE Nuclear Energy Ltd.

Seiji Nemoto - Hitachi GE Nuclear Energy Ltd.

Yuki Hidaka - Hitachi GE Nuclear Energy Ltd.

Computational Methodology for Determination of Shoulder to Gauge Ratio by Using Finite Element Method Simulations

Technical Presentation Only: ICONE31-144193

Jiri Cerny - ÚJV Řež, a. s.

Petr Gal - ÚJV Řež, a. s.

07-13: SMR and Advanced Reactors - II

8/7/2024 4:45PM-6:15PM - Palmovka 1

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Walter Ambrosini - Università di Pisa

Co-Chair: Minyang Gui - Harbin Engineering University

Effect of Corrosion Behavior on the Heat Transfer Performance of Fuel Cladding in Lead-Cooled Fast Reactors

Technical Paper Publication: ICONE31-134758

Wenpei Feng - Chengdu University of Technology

Shangdong Yang - Chengdu University of Technology

Hongxing Yu - Nuclear Power Institute of China

Xingqing Lu - Chengdu University of Technology

Xue Zhang - Nuclear Power Institute of China

Zhixing Gu - Chengdu University of Technology

Customising a System Code for the Analysis of the Thermal-Hydraulic Behaviour of a Supercritical Pressure Light Water Small Modular Reactor

Technical Paper Publication: ICONE31-135160

Omar Chaaraoui - Università di Pisa

Andrea Pucciarelli - Università di Pisa

Walter Ambrosini - Università di Pisa

Ivan Otic - Karlsruhe Institute of Technology

Thomas Schulenberg - Karlsruhe Institute of Technology

Chris Allison - Innovative Systems Software

Zheng Fu - Innovative System Software

Study on the Oxidation/corrosion Behavior of Small Modular Lead-Bismuth-Cooled Fast Reactor Summer

Technical Paper Publication: ICONE31-136020

Junjia Zhang - University of Science and Technology of China

Kefan Zhang - University of Science and Technology of China

Hongli Chen - University of Science and Technology of China

Thermal-Hydraulics and Neutronics Coupling Calculation and Validation of NECP-Panda: A Computational Code for Pebble-Bed High Temperature Gas-Cooled Reactors

Technical Paper Publication: ICONE31-136096

Dongyu Xu - Xi'an Jiaotong University

Yongping Wang - Xi'an Jiaotong University

Hongchun Wu - Xi'an Jiaotong University

Aolin Zhang - Xi'an Jiaotong University

Yuxuan Wu - Xi'an Jiaotong University

Yong Luo - Huaneng Nuclear Energy Technology Research Institute

Multi-Phase Large Leakage Sodium-Water Reaction Thermal-Hydraulics Analysis in a Sodium-Cooled Fast

Technical Paper Publication: ICONE31-136210

Xi Bai - Xi'an Jiaotong University

Peiwei Sun - Xi'an Jiaotong University

Xinyu Wei - Xi'an Jiaotong University





Study on Thermal-Hydraulic Characteristics of Horizontal Lead-Based Reactor Assembly Under Complex Motion Condition

Technical Paper Publication: ICONE31-136580

Minyang Gui - Harbin Engineering University

Di Wu - Harbin Engineering University

Hangyuan Zhang - Harbin Engineering University

Senmiao Zhang - Harbin Engineering University

Hui Cheng - Harbin Engineering University

07-16: Heat Transfer - I

8/7/2024 4:45PM-6:15PM - Palmovka 2

Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Jin Der Lee - National Tsing Hua University Co-Chair: Meiqi Song - Shanghai Jiao Tong University

The Investigation of Heat Transfer Deterioration in Supercritical Water Heating Systems Technical Paper Publication: ICONE31-127356 Jin-Der Lee - National Tsing Hua University Yu-Sen Chen - National Tsing Hua University Shao-Wen Chen - National Tsing Hua University

Analysis of Heat Transfer at Supercritical Conditions With Explainable Machine Learning Model Technical Paper Publication: ICONE31-130237

Meiqi Song - Shanghai Jiao Tong University Haozhe Li - Shanghai Jiao Tong University Xiaojing Liu - Shanghai Jiao Tong University

Research on the Coupled Heat Transfer Characteristics
Between Intra- and Inter-Assembly in LFR
Technical Paper Publication: ICONE31-131238
Di Wu - Harbin Engineering University
Minyang Gui - Harbin Engineering University
Jie Cheng - Harbin Engineering University
Jianjun Wang - Harbin Engineering University

Study on the Improvement of Relap5 Post-Critical Boiling Heat Transfer Model for the Submerged Cooling Process of Rectangular Channel

Technical Paper Publication: ICONE31-131657

Lei Zhong - Science and Technology on Reactor System Design Technology

Hongxing Yu - Science and Technology on Reactor System Design Technology Laboratory

Chen Ling - Geely University

Deqi Chen - Chongqing University

Jian Deng - Science and Technology on Reactor System Design Technology Laboratory

Haidong Liu - Chongqing University of Technology

Jun Xu - Science and Technology on Reactor System Design Technology Laboratory

The Variation Law of Aerosol Distribution Coefficient at Different Condensation Rates and Its Impact on Heat Transfer of Tube Bundles

Technical Paper Publication: ICONE31-134530 Xinnuo E - Harbin Engineering University Haifeng Gu - Harbin Engineering University Junyan Chen - Harbin Engineering University Hui Wang - Harbin Engineering University Yanmin Zhou - Harbin Engineering University Qingyang Sun - Harbin Engineering University Jianqun Yu - Harbin Engineering University Xiao Wang - Harbin Engineering University

Effect of Non-Condensable Gas on Heat Transfer of Direct Contact Condensation Technical Paper Publication: ICONE31-134787 Shu Li - General Clean Energy Co., Ltd. Wenxing Huang - Shanghai Jiao Tong University

Dandi Zhang - Shanghai Jiao Tong University Lili Tong - Shanghai Jiao Tong University



07-17: Heat Transfer - II

8/7/2024 4:45PM-6:15PM - Palmovka 3

Chair: Guoqiang Wang - Westinghouse Electric Co.
Co-Chair: Zihan Xia - Karlsruhe Institute of Technology
Co-Chair: Walter Ambrosini - Università di Pisa

Investigation on Development of New Mechanistic Model for Post Dryout Heat Transfer

Technical Paper Publication: ICONE31-135118 Zihan Xia - Karlsruhe Institute for Technology Xu Cheng - Karlsruhe Institute for Technology

Considerations on Current Methodologies for the Assessment of Engineering Correlations for Heat Transfer at Supercritical Pressures

Technical Paper Publication: ICONE31-135167

Sara Kassem - Università di Pisa Andrea Pucciarelli - Università di Pisa Walter Ambrosini - Università di Pisa

Study on Laser-Controlled Surface Preparation and Condensation Heat Transfer Characteristics of Copper-Based Micro-Nano Structure Surface

Technical Paper Publication: ICONE31-135222

Zhikai Wang - Tsinghua University Feng Chen - Tsinghua University

Jing Chen - China Nuclear Energy S&T Limited

Zhiyong Huang - Tsinghua University

He Yan - Tsinghua University

Hanliang Bo - Tsinghua University

Yujie Dong - Tsinghua University

Pool Boiling Heat Transfer Enhancement Using Bi-Conductive Surfaces

Technical Paper Publication: ICONE31-135498 Longchang Tang - Shanghai Jiao Tong University Xiaojing Liu - Shanghai Jiao Tong University Wei Xu - Shanghai Jiao Tong University Luyao Tang - Shanghai Jiao Tong University Study on Heat Transfer Characteristics of 2×2 Helical Cruciform Fuel Assembly Under Non-Uniform Heat Source

Technical Paper Publication: ICONE31-135530

Menghao Luo - Xi'an Jiaotong University

Zhiwei Lu - China Nuclear Power Technology Research Institute Co., Ltd.

Yanan He - Xi'an Jiaotong University

Yingwei Wu - Xi'an Jiaotong University

Wenxi Tian - Xi'an Jiaotong University

Guanghui Su - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

Development of an Onset of Nucleate Boiling Model and a Nucleate Boiling Heat Transfer Model Within the Fouling Layer

Technical Paper Publication: ICONE31-136312 Xiaowen Wang - Shanghai Jiaotong University

Maolong Liu - Fudan University

Tenlong Cong - Shanghai Jiaotong University Hanyang Gu - Shanghai Jiaotong University

07-18: Accident Analyses

8/7/2024 4:45PM-6:15PM - Palmovka 4

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Ningxi Jia - China Nuclear Power Engineering Co.,

Ltd.

Co-Chair: Atsushi Ui - Central Research Institute of Electric

Power Industry

Analysis on the Leakage Behavior of Cable Facility Using Gothic and Gothic 3D Models

Technical Paper Publication: ICONE31-130093

Ningxi Jia - China Nuclear Power Engineering Co., Ltd.

Zhuo Liu - China Nuclear Power Engineering Co., Ltd.

Yidan Yuan - China Nuclear Power Engineering Co., Ltd.

RCCA Ejection Accident Analysis Based on Coupled 3D Neutronics and Thermal-Hydraulics

Technical Paper Publication: ICONE31-134296

Zang Liye - China Nuclear Power Technology Research Institute Co., Ltd.





Accident Progression Analysis of an Offshore Floating Nuclear Power Plant Under Heaving Motion

Technical Paper Publication: ICONE31-134485

Atsushi Ui - Central Research Institute of Electric Power Industry

Yutaka Ikeda - Central Research Institute of Electric Power Industry

Takahiro Arai - Central Research Institute of Electric Power Industry

Application of Sensitivity Analysis Techniques to a Low Dimensional Problem in the Frame of Severe Accidents

Technical Paper Publication: ICONE31-135801

Michela Angelucci - University of Pisa

Sandro Paci - University of Pisa

Salvatore Angelo Cancemi - University of Pisa

Rosa Lo Frano - University of Pisa

Study on Radionuclide Desorption in Matrix Graphite **Under Accident Conditions** 

Technical Paper Publication: ICONE31-135804 Wei Xu - North China Electric Power University

Jian Li - Tsinghua University

Improving the Accuracy of RCCS Simulator Based on Ensemble Kalman Filter Algorithm

Technical Paper Publication: ICONE31-135908

Songsong Liu - Tsinghua University

Han Zhang - Tsinghua University

Yingjie Wu - Tsinghua University

Minggang Lang - Tsinghua University

Yujie Dong - Tsinghua University

Fu Li - Tsinghua University

02-08: Methods Development, Computational Approaches - II

8/7/2024 4:45PM-6:15PM - Karlin 1

Chair: Hakan Ozaltun - U.S. Nuclear Regulatory

Commission

Co-Chair: Xiang Wang - Harbin Engineering University

Co-Chair: Zhiyuan Feng - Tsinghua University

Numerical Simulation and Localization Algorithm Study of Two-Energy-Group Neutron Noise Diffusion Problems Induced by Fuel Rod/Assembly Vibration

Technical Paper Publication: ICONE31-135263

Zelin Zhao - Harbin Engineering University

Xiang Wang - Harbin Engineering University

Implementation of Domain Decomposition Parallelism and gCMFD in MOCP: Method of Characteristics for Pebble-Bed Reactor

Technical Paper Publication: ICONE31-134979

Chen Hao - Harbin Engineering University

Yuchen Wen - Harbin Engineering University

Yizhen Wang - Harbin Engineering University

Investigation on Applicability of Dynamic Mode Decomposition in Burnup Analysis

Technical Paper Publication: ICONE31-135535

PengChao Xue - Harbin Engineering University

Qian Zhang - Zhejiang University

Qiang Zhao - Harbin Engineering University

Yunfei Zhang - Chinese Academy of Sciences

Weight Window Generation Based on Pre-Calculated Response Matrix

Technical Paper Publication: ICONE31-134556

Yingzhe Hu - Tsinghua University

Pengfei Shen - Tsinghua University

Shihang Jiang - Tsinghua University

Shanfang Huang - Tsinghua University

Kan Wang - Tsinghua University

Zeguang Li - Tsinghua University

Zhaoyuan Liu - Tsinghua University



Research on Fuel Pebble Modeling Methods Comparison and Eigenvalue Analysis of the Running-in Phase of HTR-

Technical Paper Publication: ICONE31-131880

Qianye Yang - Tsinghua University

Nan Gui - Tsinghua University

Jiyuan Tu - Royal Melbourne Institute of Technology

University

Shengyao Jiang - Tsinghua University

Research on the ODR-VS Method Applicable to Various Geometric Models

Technical Paper Publication: ICONE31-134943

Zhiyuan Feng - Tsinghua University Jingang Liang - Tsinghua University Wenli Guo - Tsinghua University Kan Wang - Tsinghua University

03-05: Innovations in Nuclear Engineering

8/7/2024 4:45PM-6:15PM - Karlin 3

Chair: Brian Fant - Bechtel

Development and Demonstration Testbed for the Remote Operations and Monitoring of Microreactors

Technical Paper Publication: ICONE31-133205

Joseph Oncken - Idaho National Laboratory

Thomas Ulrich - Idaho National Laboratory

Kaeley Stevens - Idaho National Laboratory

Zachary Sellers - Idaho National Laboratory

Jeren Browning - Idaho National Laboratory

Research on Measurement and Analysis Method of Radiation Test Section Based on Neural Network

Technical Paper Publication: ICONE31-134913

Jinlin Li - Harbin Engineering University

Yunsheng Zhang - Harbin Engineering University

Jie Cheng - Harbin Engineering University

Guangming Fan - Harbin Engineering University

Shuai Jin - Nuclear Power Institute of China; Harbin

**Engineering University** 

Modeling and Control Scheme Design of a Multi-Modular High Temperature Gas Cooled Reactor Cogeneration Unit

Technical Paper Publication: ICONE31-135166

Zhonghua Cheng - Tsinghua University

Zhe Dong - Tsinghua University

Analysis and Research on Control Strategies for Supercritical Carbon Dioxide Nuclear Energy Systems

Technical Paper Publication: ICONE31-135711

Xiuting Liu - Sichuan University

Yanping Huang - Nuclear Power Institute of China

Yuan Zhou - Sichuan University

Minyun Liu - Nuclear Power Institute of China

Jun Yang - Nuclear Power Institute of China

Bitan Qin - Nuclear Power Institute of China

Ruilong Liu - Nuclear Power Institute of China

Model Predictive Control for High Temperature Gas-

Cooled Reactor in Load Following

Technical Paper Publication: ICONE31-136137

Yunlong Zhu - Tsinghua University Zhe Dong - Tsinghua University Xiaojin Huang - Tsinghua University

04-05: SMRs, Advanced Reactors, and Fusion

8/7/2024 4:45PM-6:15PM - Florenc 2

Chair: Rosa Lo Frano - University of Pisa

Research on a Space Reactor Scheme for the Lunar Research Station

Technical Paper Publication: ICONE31-125424

Zhipeng Wang - Chinese Academy of Sciences

Qiang Sheng - Chinese Academy of Sciences

Zijing Liu - Chinese Academy of Sciences

Ke Wang - Chinese Academy of Sciences





Comparison Analysis and Optimization Research of Open and Closed Air Brayton Cycle

Technical Paper Publication: ICONE31-133271

Meihui Song - Xi'an Jiaotong University

Yuyang Leng - Xi'an Jiaotong University

Yiran Qian - Xi'an Jiaotong University

Weixiong Chen - Xi'an Jiaotong University

Yi Yang - China Institute of Atomic Energy

Junjie Yan - Xi'an Jiaotong University

Feasibility Study of Variable Spectrum Molten Salt Reactor by Adjusting Fuel Salt Compositions for the LiF-BeF2-ZrF4-UF4 System

Technical Paper Publication: ICONE31-134672

Naoto Aizawa - Tohoku University

Hiroki Shishido - Tohoku University

Koji Fujikura - Tohoku University

Optimization Design Study of a Radiant Heat Exchanger for a Small-Scale Underwater Nuclear Power Plant's Residual Heat Removal System

Technical Paper Publication: ICONE31-135657

Yinan Guo - Harbin Engineering University

Lei Li - Harbin Engineering University

Yongsheng Wen - Harbin Engineering University

Challenges in the Analysing the Next Water SMR Evolution

Technical Presentation Only: ICONE31-138751

Guido Mazzini - Centrum výzkumu Řež s.r.o.

Jiří Duspiva - Centrum výzkumu Řež s.r.o.

Jan čAda - Centrum výzkumu Řež s.r.o.

Monika šĺpová - Centrum výzkumu Řež s.r.o.

Andrej Prošek - Jožef Stefan Institute

Leon Cizelj - Jozef Stefan Institute

Ivan Otić - Karlsruher Institut für Technologie

Alberto Saez Maderuelo - CIEMAT

Juan Carlos De La Rosa Blul - European Commission (JRC-Petten)

Attila Kiss - Budapest University of Technology and Economics

Szabolcs Czifrus - Budapest University of Technology and Economics

Inventory Control Strategy and Dynamic Modelling of a 1mwe Hexe Brayton Cycle Reactor System

Technical Paper Publication: ICONE31-134369

Xinyu Li - Shanghai Jiao Tong University

Chaoran Guan - Shanghai Jiao Tong University

Xiang Chai - Shanghai Jiao Tong University

Xiaojing Liu - Shanghai Jiao Tong University

04-11: SMRs, Advanced Reactors and Fusion

8/7/2024 4:45PM-6:15PM - Karlin 4

Chair: Rosa Lo Frano - University of Pisa

Features of Space Reactor Brayton Cycle Under Power

Regulation by Control Drums

Technical Paper Publication: ICONE31-135642

Wenkui Ma - Tsinghua University

Ping Ye - Tsinghua University

Yue Gao - Tsinghua University

Yadong Hao - Tsinghua University

Yi Yao - Tsinghua University

Xiaoyong Yang - Tsinghua University

Impact of Narrow Gaps on Graphite Component Lifespan

in Small Modular Molten Salt Reactors

Technical Paper Publication: ICONE31-136988

Qi Wang - Chinese Academy of Sciences

Yu Zhong - Chinese Academy of Sciences

Chenggang Yu - Chinese Academy of Sciences

Wei Guo - Chinese Academy of Sciences

Jingen Chen - Chinese Academy of Sciences

Zhichao Wang - Chinese Academy of Sciences

Qiang Sun - Chinese Academy of Sciences

Conceptual Design and Feasibility Analysis of a Modular

Supercritical CO2 Fast Reactor Core

Technical Paper Publication: ICONE31-135206

Guihua Lai - Tsinghua University

Tian Wang - ZTE Corporation

Ding She - Tsinghua University

Hong Wang - Tsinghua University



Concept Study of a Fisson Fragment Propulsion System Technical Paper Publication: ICONE31-135466

Dacai Zhang - Tsinghua University

Ganglin Yu - Tsinghua University

05-07: System Performance and Safety Enhancements

8/7/2024 4:45PM-6:15PM - Liben 3

Chair: Fredrick McCrory - Sandia National Laboratories

Co-Chair: Brian Fant - Bechtel

Co-Chair: Alessandro Petruzzi - Nuclear and Industrial

Engineering

Co-Chair: Dmitry Grishchenko - KTH Royal Institute of

Technology

Co-Chair: Scott Sanborn - Sandia National Laboratories

Co-Chair: Takeshi Yamada - Hitachi-Ge Nuclear Energy,

Lta.

Co-Chair: Tomohiko Ikegawa - Hitachi

Co-Chair: Hideki Horie - Toshiba Corp.

Co-Chair: Patrick Frias - U.S. Department of Energy

Co-Chair: Hongxing Yu - Nuclear Power Institute of China

Co-Chair: Si-chao Tan - Harbin Engineering University

Co-Chair: Ronghua Chen - Xi'An Jiao Tong University

Co-Chair: Songtao Ji -

Transient Identification of HRT-PM Based on Graph Neural Networks

Technical Paper Publication: ICONE31-134769

Wenji Zhang - Tsinghua University

Tianhao Zhang - Tsinghua University

Jitao Li - Tsinghua University

Duo Li - Tsinghua University

Chao Guo - Tsinghua University

Xiaojin Huang - Tsinghua University

Design and Evaluation of Mitigation Measures for Tsinghua High Flux Reactor Loss-of-Coolant Accidents

Technical Paper Publication: ICONE31-134999

Zhuang Wang - Tsinghua University

Heng Xie - Tsinghua University

Gan Zhu - Tsinghua University

Szu-En Yeh - Tsinghua University

Experimental Study in Cooling Rate by Containment Spray

Technical Paper Publication: ICONE31-135031

Ning Wang - China Institute for Radiation Protection

Yapeng Yang - China Institute for Radiation Protection

Zhe Liu - China Institute for Radiation Protection

Evaluation and Sensitivity Study of Uniform Kernel Method in Atmospheric 41Ar Dispersion Against the Belgian Field Experiment

Technical Paper Publication: ICONE31-135061

Yeshuai Sun - North China Electric Power University

Yujie Zhang - North China Electric Power University

Zhaoyang Wang - North China Electric Power University

Li Yang - North China Electric Power University

Xinpeng Li - North China Electric Power University

Yixue Chen - North China Electric Power University

Xinwen Dong - Tsinghua University

Sheng Fang - Tsinghua University

Exploration of Ultra-High Performance Concrete (UHPC) Application in Nuclear Power Plant Structures

Technical Paper Publication: ICONE31-135588

Zhang Peiyao - China Nuclear Power Engineering Company Co., Ltd.

Song Mengyan - China Nuclear Power Engineering Company Co., Ltd.

Jiang Di - China Nuclear Power Engineering Company Co.,

Gao Jingwei - China Nuclear Power Engineering Company Co., Ltd.





Thermal Performance Analysis of Radioactive Material Transport Containers

Technical Paper Publication: ICONE31-136245

Changwu Wang - Chinese Institute for Radiation Protection
Yuhang Zhang - Chinese Institute for Radiation Protection
Yiren Lian - Chinese Institute for Radiation Protection
Lei Chen - Chinese Institute for Radiation Protection
Zhipeng Wang - Chinese Institute for Radiation Protection
Qian Sun - Chinese Institute for Radiation Protection
Dajie Zhuang - Chinese Institute for Radiation Protection

01-05: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - V

8/7/2024 4:45PM-6:15PM - Karlin 2

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Pascal Duranton - Framatome Co-Chair: Oleksandr Mazurok - ES Group LLC Co-Chair: Kazuya Mori - Kumamoto University

Ways to Solve the Safe Operation of VVER-1000 Reactors in Case of Loss of Original Rod Cluster Control Assemblies Supply

Technical Paper Publication: ICONE31-134916

Oleksandr Mazurok - ES Group LLC

Valeriy Zuyok - National Science Centre "Kharkov Institute of Physics and Technology"

Vadym Ivanov - ES Group LLC

Mykhaylo Tretyakov - National Science Center "Kharkov Institute of Physics & Technology"

Key Technologies Research for the Implementation of In-Service Inspection Strategies Optimizing for the Reactor Coolant System of M310 Unit Nuclear Power Plants

Technical Paper Publication: ICONE31-134982

Yunhai Shen - Chengdu Hezong Nuclear Power Engineering Co., Ltd.

Feng Deng - Chengdu Hezong Nuclear Power Engineering Co., Ltd.

Yongqiang Duan - Chengdu Hezong Nuclear Power Engineering Co., Ltd.

Xiaoquan Yu - Chengdu Hezong Nuclear Power Engineering Co., Ltd.

Shuixiang Ye - Chengdu Hezong Nuclear Power Engineering Co., Ltd.

Remote Impact Acoustic Inspection of Structures Using Water Jet Impacts

Technical Paper Publication: ICONE31-135012 Saeko Tokuomi - Kumamoto University Kazuya Mori - Kumamoto University

Yasutaka Ohshima - Kumamoto University

Research Methods and Protective Measures for Internal Flooding Analysis of Nuclear Islands

Technical Paper Publication: ICONE31-135047

Guang Du - China Nuclear Power Engineering Co., Ltd.
Danfeng Zhao - China Nuclear Power Engineering Co., Ltd.

Daping Lin - China Nuclear Power Engineering Co., Ltd.

Xiaoxia Chen - China Nuclear Power Engineering Co., Ltd.

Research on the Localization Method of Loose Components in Nuclear Power Plants Based on Hilbert-Huang Signal Processing

Technical Paper Publication: ICONE31-135066

Jiming Jiang - North China Electric Power University

Yu Liu - North China Electric Power University

Daogang Lu - North China Electric Power University





#### THURSDAY, 8/8/2024

Time	Title	Room
8:30AM - 10:00AM	ICONE Technical Session	See App for specific locations
10:00AM - 10:30AM	Refreshment Break	Congress Hall Foyer, Lower Level
10:30AM - 12:00PM	ICONE Technical Session	See App for specific locations
12:00PM - 1:00PM	Ticketed Lunch	Atrium Restau- rant
1:00PM - 2:30PM	Panel Sessions	See App for specific locations
2:30PM - 3:00PM	Refreshment Break	See App for spe- cific locations
3:00PM - 4:30PM	ICONE Technical Session	See App for specific locations
4:45PM - 6:15PM	ICONE Technical Session	See App for specific locations

04-06: SMRs, Advanced Reactors and Fusion

8/8/2024 8:30AM-10:00AM - Florenc 2

Chair: Rosa Lo Frano - University of Pisa

Co-Chair: Prashant Jain -

Co-Chair: Ivan Otic - Karlsruhe Institute of Technology

Co-Chair: Hitesh Bindra - Purdue University

Co-Chair: Jovica Riznic - Canadian Nuclear Safety

Commission

Co-Chair: Danrong Song - Nuclear Power Institute of China

Co-Chair: Wei Peng - Tsinghua University

Co-Chair: Dalin Zhang - Xi'an Jiaotong University

Co-Chair: Jinggang Qin -Co-Chair: Min Xu -

Co-Chair: Glenn Harvel -

Co-Chair: Rei Kimura - Toshiba Energy Systems & Solutions

Corporation

Co-Chair: Hiroyuki Sato - Japan Atomic Energy Agency

Co-Chair: Hiroo Kondo -

Co-Chair: Kazuhiro Kamei - Toshiba Energy Systems &

**Solutions Corporation** 

Co-Chair: Takashi Hirano - NA

Reactivity Feedback Effects of Fuel and Grid Plate Expansion in Gas-Cooled Reactors

Technical Paper Publication: ICONE31-134125

Yugao Ma - Nuclear Power Institute of China

Suyi Zhang - Chengdu University of Technology

Jian Deng - Nuclear Power Institute of China

Jinyu Wang - Nuclear Power Institute of China

Yue Liu - Chengdu University of Technology

Shuhua Ding - Nuclear Power Institute of China

Muhao Zhang - Chengdu University of Technology

Generative Design of a Gas-Cooled Micro Reactor Based on Multi-Physics Analysis

Technical Paper Publication: ICONE31-135237

Wenbin Han - Tsinghua University

Qi Lu - Nuclear Power Institute of China

Jian Deng - Nuclear Power Institute of China

Shanfang Huang - Tsinghua University

Thermal Analysis and Structural Design of the Main Steam Containment Penetration for Multi-Modular High-Temperature Gas-Cooled Reactor Power Plant

Technical Paper Publication: ICONE31-130135

Chaoyi Zhu - Tsinghua University

Yiyang Zhang - Tsinghua University

Huijie Yan - Tsinghua University

Jiyang Fu - Tsinghua University

Mei Huang - Chinergy Co. Ltd.

JENDL-5 Benchmarking for Advanced Test Reactor for Preparing Burnup Analysis Using Isotopic Data From HTGR

Type Fuel Irradiation Tests

Technical Paper Publication: ICONE31-131748

Shoichiro Okita - Japan Atomic Energy Agency

Takeshi Aoki - Japan Atomic Energy Agency

Yuji Fukaya - Japan Atomic Energy Agency

Yukio Tachibana - Japan Atomic Energy Agency





Dynamic Modeling of Modular High Temperature Gas-Cooled Reactor Cogeneration System and Control Design Under the Condition of Turbine Isolation

Technical Paper Publication: ICONE31-131854

Xuan Lin - Tsinghua University

Zhe Dong - Tsinghua University

Fan Chen - Tsinghua University

Shuqiao Zhou - Tsinghua University

Chao Guo - Tsinghua University

Duo Li - Tsinghua University

Weidong Sun - Tsinghua University

Performance Analysis and Optimization Scheme Evaluation of Control Rod Drop Collision in Gas-Cooled Microreactor

Technical Paper Publication: ICONE31-132023

Hao Dong - China Nuclear Power Engineering Co., Ltd.

Anzhou Qi - China Nuclear Power Engineering Co., Ltd.

Xiaochuan Jiang - China Nuclear Power Engineering Co.,

07-08: Numerical Analyses

8/8/2024 8:30AM-10:00AM - Liben 3

Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Qi Zhang - Nuclear Power Institute of China

Co-Chair: Xiaoyang Xie - Tsinghua University

Numerical Investigation on the Thermal-Hydraulic and Flow Induced Vibration Characteristics in LBE-Cooled Helical Cruciform Fuel and Wire-Wrapped Fuel

Technical Paper Publication: ICONE31-133402

Qi Zhang - Nuclear Power Institute of China

Haoyu Wang - Nuclear Power Institute of China

Junxian Cao - Nuclear Power Institute of China

Yuanming Li - Nuclear Power Institute of China

Chenxi Li - Nuclear Power Institute of China

Zhenhai Liu - Nuclear Power Institute of China

Numerical Study on Molten Stainless Steel and Lead Bismuth Eutectic Interaction for Lead-Cooled Fast Reactors Using the ACENA Code With Experimental Validation

Technical Paper Publication: ICONE31-134796

Shuowang Fan - Shanghai Nuclear Engineering Research and Design Institute Co., Ltd.

Yutong Chen - Xi'an Jiaotong University

Dalin Zhang - Xi'an Jiaotong University

Xiaoli Wu - Nuclear Power Institute of China

Wenxi Tian - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

Guanghui Su - Xi'an Jiaotong University

Numerical Simulation on the Thermal Hydraulic Characteristics in Pool-Type Fast Reactor Based on the New-Designed Passive Dynamic Residual Heat Removal Valve

Technical Paper Publication: ICONE31-135327

Yuan-Shu Qu - North China Electric Power University

Yu-Hao Zhang - North China Electric Power University

Hai-Qi Zhao - North China Electric Power University

Dao-Gang Lu - North China Electric Power University

Microscopic Turbulence Topology Analysis of the Cross Flow Over a Square Arranged Tube Bundle Using Direct Numerical Simulation

Technical Paper Publication: ICONE31-136171

Xiaoyang Xie - Tsinghua University

Houjian Zhao - North China Electric Power University

Xiaowei Li - Tsinghua University

Xinxin Wu - Tsinghua University

Numerical Study of Gas Flow and Diffusion Driven by Buoyancy in a Multi-Openings Compartment

Technical Paper Publication: ICONE31-136244

Jinghua Jiang - Shanghai Jiaotong University

Peizheng Hu - Shanghai Jiao Tong University

Lili Tong - Shanghai Jiao Tong University

Xuewu Cao - Shanghai Jiao Tong University



Three-Dimensional Numerical Simulation on DRACS and PRACS Heat Removal Ways of Natural Circulation Based on the PLANDTL-DHX Experimental Device

Technical Paper Publication: ICONE31-136974
Haijie Song - North China Electric Power University
Xiangfeng Ma - China Nuclear Power Engineering Co., Ltd.
Haiqi Zhao - North China Electric Power University
Yuhao Zhang - North China Electric Power University
Daogang Lu - North China Electric Power University
Xueyuan Zhang - North China Electric Power University

07-19: Entrainment and Droplet Characteristics 8/8/2024 8:30AM-10:00AM - Palmovka 1

Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Bo Wang - Harbin Engineering University Co-Chair: Kohei Yuki - Sanyo-Onoda City University

Research on the Re-Entrainment Mechanism in Corrugated Plate Driers in the Nuclear Field Technical Paper Publication: ICONE31-132379
Bo Wang - Harbin Engineering University
Ru Li - Tsinghua University
Jiangkuan Li - Harbin Engineering University
Sichao Tan - Harbin Engineering University
Ruifeng Tian - Harbin Engineering University

Coalescence-Induced Irregular Particle-Droplet Removal Technical Paper Publication: ICONE31-134534 Yanzhi Li - Tsinghua University Jiayu Du - Tsinghua University Qi Min - Tsinghua University Libin Sun - Tsinghua University

Study on the Flash Evaporation Characteristics of High-Temperature and High-Pressure Water Immersion Jet and the Behavioral Mechanism of Iodine in Liquid Pool Technical Paper Publication: ICONE31-135611

Han Wu - Harbin Engineering University

Haifeng Gu - Harbin Engineering University

Evaporation of Alkali Metal Sodium Droplet in the Circular Tube

Technical Paper Publication: ICONE31-136993

Songsheng Tang - State Key Lab. of Multiphase Flow in Power Engineering, Shaanxi Key Lab. of Advanced Nuclear Energy and Technology

Kailun Guo - State Key Lab. of Multiphase Flow in Power Engineering, Shaanxi Key Lab. of Advanced Nuclear Energy and Technology

Shiyu Tian - State Key Lab. of Multiphase Flow in Power Engineering, Shaanxi Key Lab. of Advanced Nuclear Energy and Technology

Yugao Ma - Nuclear Power Institute of China

Jinkun Zhao - Shanghai Nuclear Engineering Research & Design Institute Co., Ltd.

Guanghui Su - State Key Lab. of Multiphase Flow in Power Engineering, Shaanxi Key Lab. of Advanced Nuclear Energy and Technology

Suizheng Qiu - State Key Lab. of Multiphase Flow in Power Engineering, Shaanxi Key Lab. of Advanced Nuclear Energy and Technology

Wenxi Tian - State Key Lab. of Multiphase Flow in Power Engineering, Shaanxi Key Lab. of Advanced Nuclear Energy and Technology

State of Leidenfrost Droplets: Equilibrium, Oscillation, and Trampolining

Technical Presentation Only: ICONE31-134873

Jiayu Du - Tsinghua University Yanzhi Li - Tsinghua University Qi Min - Tsinghua University Libin Sun - Tsinghua University

Droplet Evaporation Characteristics on High-Temperature Porous Surfaces for Cooling Fuel Debris

Technical Paper Publication: ICONE31-135281 Kohei Yuki - Tokyo University of Science Naoki Horiguchi - Japan Atomic Energy Agency

Hiroyuki Yoshida - Japan Atomic Energy Agency Kazuhisa Yuki - Tokyo University of Science





02-09: Physics and Transport Theory - I

8/8/2024 8:30AM-10:00AM - Karlin 1

Chair: Hakan Ozaltun - U.S. Nuclear Regulatory Commission

Co-Chair: Martin Lovecký - University of West Bohemia Co-Chair: Shichang Liu - North China Electric Power University

Total Monte Carlo Uncertainty Analysis of VVER-440 Spent Nuclear Fuel in LWR and HWR Reactor Environment Technical Paper Publication: ICONE31-136014 Martin Lovecký - University of West Bohemia Jiří Závorka - University of West Bohemia Tomáš Kořínek - Czech Technical University in Prague

Radek Skoda - Czech Technical University in Prague

Neutronics Study and Conceptual Design for Small Sodium-Cooled Fast Reactor Annular Fuel Technical Paper Publication: ICONE31-134304 Bin Ye - Southwest University of Science and Technology Ayodeji A. Ala - Southwest University of Science and Technology

Neutronics Research on Annular Axial-Non-Uniform Minor Actinides Transmutation Targets in Commercial Pressurized Water Reactor

Technical Paper Publication: ICONE31-135114

Bin Ye - Southwest University of Science and Technology

Ayodeji A. Ala - Southwest University of Science and

Technology

Three-Dimensional Refined Depletion Calculation of Helical-Cruciform Nuclear Fuel Assembly Technical Paper Publication: ICONE31-135085 Duan Qianni - Xian Jiaotong University Li Wei - Xian Jiaotong University Wu Junmei - Xian Jiaotong University Development and Initial Analysis of a Neutron Diffusion Model for Teplator Using COMSOL Multiphysics Code Technical Paper Publication: ICONE31-133182 Dipanjan Ray - University of West Bohemia Martin Lovecký - University of West Bohemia Jiří Závorka - University of West Bohemia Radek šKoda - Czech Technical University

Calculation of Radiation Field and Shutdown Dose Rate for Fusion Reactor Based on cosRMC

Technical Paper Publication: ICONE31-134661 Shichang Liu - North China Electric Power University Zhenyu Wang - North China Electric Power University Rui Che - North China Electric Power University

04-12: SMRs, Advanced Reactors and Fusion 8/8/2024 8:30AM-10:00AM - Karlin 3

Chair: Rosa Lo Frano - University of Pisa

Conceptual Design of High-Power Nuclear Power System on the Surface of Mars

Technical Paper Publication: ICONE31-135644 Yansong Han - Tsinghua University

Thermodynamic Characteristics Analysis of Helium Xenon Mixed Working Medium Space Closed Brayton Cycle Nuclear Reactor

Technical Paper Publication: ICONE31-135685
Yuhang Liu - Harbin Institute of Technology
Yulan Zhao - Harbin Institute of Technology
Kunlin Cheng - Harbin Institute of Technology
Haochun Zhang - Harbin Institute of Technology

ASME BPVC Section III Division 4 Fusion Construction Code Roadmap

Technical Presentation Only: ICONE31-133048 Thomas Davis - Oxford Sigma



V&V of Accident Behaviors in Silicon Carbide Fuel Matrices for High-Temperature Gas-Cooled Reactors

Technical Presentation Only: ICONE31-135182

Yosuke Nishimura - The University of Tokyo

Avadhesh Sharma - The University of Tokyo

Anna Gubarevich - Tokyo Institute of Technology

Katsumi Yoshida - Tokyo Institute of Technology

Koji Okamoto - The University of Tokyo

Methodology Development for Explosion Hazard Evaluation in Hydrogen Production System Using High Temperature Gas-Cooled Reactor

Technical Paper Publication: ICONE31-135407 Keisuke Morita - Japan Atomic Energy Agency Takeshi Aoki - Japan Atomic Energy Agency Atsushi Shimizu - Japan Atomic Energy Agency

Hiroyuki Sato - Japan Atomic Energy Agency

04-13: SMRs, Advanced Reactors and Fusion 8/8/2024 8:30AM-10:00AM - Karlin 4

Chair: Rosa Lo Frano - University of Pisa

Establish and Analysis of an Optimized System for Hydrogen Production From Nuclear Energy in China Technical Paper Publication: ICONE31-130730
Ping Wang - China Nuclear Power Engineering Co., Ltd. Li Fan - China Nuclear Power Engineering Co., Ltd. Yibo Luo - China Nuclear Power Engineering Co., Ltd.

Multi-Objective Optimization Design for Nuclear-Coupled Distributed Multi-Energy System in Alpine Regions

Technical Paper Publication: ICONE31-135307

Xiaoxiao Ren - Xi'an Jiaotong University

Chao Jiang - Nuclear Power Institute of China

Jinshi Wang - Xi'an Jiaotong University

Sifan Yang - Xi'an Jiaotong University

Quanbin Zhao - Xi'an Jiaotong University

Junjie Yan - Xi'an Jiaotong University

Hydrogen Production by High Temperature Steam Electrolysis Coupled With a Small Modular Reactor: Cross-Comparison Between Various Thermal Architectures

Technical Paper Publication: ICONE31-135501

Nicolas Tauveron - CEA

David Haubensack - CEA

Pierre Dumoulin - CEA

Nicolas Alpy - CEA

Technology Review and Safety Assessment of Nuclear-Renewable Hybrid Energy Systems With Light-Water Small Modular Reactors

Technical Paper Publication: ICONE31-136037

Alessandro De Angelis - University of Pisa

Michele Frignani - Ansaldo Nucleare S.p.A.

Andrea Pucciarelli - University of Pisa

Oleksandr Sevbo - ENERGORISK

Miriam Minchole Lapuente - Empresarios Agrupados Internacional

Christophe Schneidesch - TRACTEBEL

Claire Vaglio-Gaudard - CEA, DES, IRESNE, DER/SESI

Joachim Miss - IRSN

Thorsten Hollands - GRS

Walter Ambrosini - University of Pisa

CFD-DEM Simulation on Gas-Solid Separation and Sphere Packing Behaviors in a Storage Bin of the Small Absorber Sphere System

Technical Paper Publication: ICONE31-135598

Tianjin Li - Tsinghua University

Haitao Hu - Tsinghua University

He Yan - Tsinghua University

Xingzhong Diao - Tsinghua University

Effects of Mixed Inert Gases on Design of Centrifugal Compressors for Space Nuclear Reactor

Technical Paper Publication: ICONE31-135992

Risheng Xu - Tsinghua University

Wenkui Ma - Tsinghua University

Ping Ye - Tsinghua University

Gang Zhao - Tsinghua University

Xiaoyong Yang - Tsinghua University





08-05: Computational Fluid Dynamics (CFD) and Applications - V

8/8/2024 8:30AM to 10:00AM - Palmovka 2

Chair: Yassin Hassan - Texas A&M

Co-Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Kei Ito -

Co-Chair: Ruihan Jing - Harbin Engineering University Co-Chair: Enping Zhu - Shanghai Jiaotong University

Numerical Investigation on the Enhancement of Steam-Air Condensation Heat Transfer Outside Spiral Pipes

Technical Paper Publication: ICONE31-135038

Ruihan Jing - Heilongjiang Provincial Key Laboratory of

Nuclear Power System & Equipment

Lu Zhang - China Nuclear Power Engineering Co., Ltd.

Haozhi Bian - Heilongjiang Provincial Key Laboratory of Nuclear Power System & Equipment

Xinyi Shen - Heilongjiang Provincial Key Laboratory of Nuclear Power System & Equipment

Xu Zhang - Harbin Engineering University

Shuhang Zhou - Heilongjiang Provincial Key Laboratory of Nuclear Power System & Equipment

Xiang Peng - Heilongjiang Provincial Key Laboratory of Nuclear Power System & Equipment

Study of the Effect of Different P/D Ratios on the Thermal-Hydrodynamic Performance of Lead-Cooled Fast Reactor Fuel Assemblies

Technical Paper Publication: ICONE31-135052

Yangguang Zhang - North China Electric Power University

Daogang Lu - North China Electric Power University

Qiong Cao - North China Electric Power University

Xiaotian Wang - North China Electric Power University

An Online State Estimation Method Based on Quantum Genetic Algorithm for Space Nuclear Reactors

Technical Paper Publication: ICONE31-135080

Enping Zhu - Shanghai Jiaotong University

Xiang Chai - Shanghai Jiaotong University

Numerical Simulation and Analysis of Condensation-Induced Water Hammer in Heat Exchangers for Residual Heat Removal System in Nuclear Power Plant

Technical Paper Publication: ICONE31-135113

Jie Li - China Nuclear Power Engineering Co., Ltd.

Feng Xiong - North China Electric Power University

Jiaqi Pan - China Nuclear Power Engineering Co., Ltd.

Ruiyang Tu - North China Electric Power University

Pei Yu - China Nuclear Power Engineering Co., Ltd.

Jiaming Zhao - China Nuclear Power Engineering Co., Ltd.

Zhengyu Chen - North China Electric Power University

Zihao Zhang - North China Electric Power University

Wentao Guo - North China Electric Power University

Shengfei Wang - North China Electric Power University

Numerical Simulation Study on Axial Mixing Characteristics of Fuel Assembly

Technical Paper Publication: ICONE31-135170

Xiaoyang Zhang - China Institute of Atomic Energy

Junhan Wei - China Institute of Atomic Energy

Minfu Zhao - China Institute of Atomic Energy

Hydrodynamic Characteristics of Single Phase Flowing Through Orifice Plate

Technical Paper Publication: ICONE31-135197

Min Qiao - CNNC Key Laboratory on Nuclear Reactor Thermal Hydraulics Technology

Xiao Deng - Nuclear Power Institute of China

Dawei Pan - Sichuan University

Weixing Huang - Sichuan University

08-09: Computational Fluid Dynamics (CFD) and Applications - IX

8/8/2024 8:30AM-10:00AM - Palmovka 3

Chair: Yassin Hassan - Texas A&M

Co-Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Wenxing Liu -

Co-Chair: Herve Cordier - EDF

Co-Chair: Ossama Halim - Università di Pisa



CFD Modeling of a Full Clogging Event in a Pumping Station With Neptune\_CFD Solver

Technical Paper Publication: ICONE31-135781

Sebastien Natchez - EDF Romain Ceyrolle - EDF Vincent Loizeau - EDF Herve Cordier - EDF

Research on Convection Heat Transfer Performance of High-Temperature Helium-Argon Mixed Gas

Technical Paper Publication: ICONE31-135839
Lisha Xu - Nuclear Power Institute of China
Zicheng Qiu - Nuclear Power Institute of China
Jianjun Xu - Nuclear Power Institute of China

Numerical Analysis of Thermal-Stratification for Upper Plenum in Pool-Type Sodium Fast Reactors

Technical Paper Publication: ICONE31-135878
Mingdi Xing - China Institute of Atomic Energy
Daoxi Cheng - China Institute of Atomic Energy
Xiaoyao Ma - China Institute of Atomic Energy
Weiming Zhai - China Institute of Atomic Energy
Ping Zhou - China Institute of Atomic Energy
Song Yu - China Institute of Atomic Energy
Ruizhi Li - China Institute of Atomic Energy
Weilong Gao - China Institute of Atomic Energy

Analytical Study of Melt Spreading in Shallow Pool Observed in PULIMS-E10 Test Using MSPREAD Implemented With Molten Jet Quench Model Technical Paper Publication: ICONE31-135902 Wataru Kikuchi - Nuclear Regulation Authority Akitoshi Hotta - Nuclear Regulation Authority Koetsu Ito - Advance Soft Corporation Hiroaki Yugo - Advance Soft Corporation Mamoru Shimizu - Advance Soft Corporation

A Stabilization Strategy of Multi-Resolution Multiphase MPS Method

Technical Paper Publication: ICONE31-136067

Yubao Zhong - Xi'an Jiaotong University

Sijun Li - Xi'an Jiaotong University

Ronghua Chen - Xi'an Jiaotong University

Kailun Guo - Xi'an Jiaotong University

Wenxi Tian - Xi'an Jiaotong University

A Comparative Analysis of CFD Approaches to Model Wire-Wrapped Fuel Bundle and Experimental Validation

Technical Paper Publication: ICONE31-136113

Ossama Halim - Università di Pisa Andrea Pucciarelli - Università di Pisa Nicola Forgione - Università di Pisa

12-04 Risk Assessments and Management

- Session 4

8/8/2024 8:30 AM to 10:00 AM - Palmovka 4

Chair: Arun Veeramany - Pacific Northwest National Laboratory

Co-Chair: Hidemasa Yamano - Japan Atomic Energy Agency

Co-Chair: Mahesh Pandey - University of Waterloo

Co-Chair: Anton Prins - Risk Management and Consultancy

Co-Chair: Arnold Yuan - Ryerson University

Co-Chair: Ivan Vrbanic - APoSS d.o.o., Zabok, Croatia

Co-Chair: Jaroslav Holy - UJV Řež, a.s.

Co-Chair: Yoshihisa Nishi - Central Research Institute of

Electric Power Industry

Co-Chair: Zhegang Ma - Idaho National Laboratory

Co-Chair: Wei Deng - China Nuclear Power Engineering

Co., Ltd.

Co-Chair: Thomas Vogan - Sargent & Lundy

Co-Chair: Tao Yu -

Co-Chair: He Wang - Harbin Engineering University

Co-Chair: Xinli Yu - China Nuclear Power Engineering Co.,

Ltd.





Effect of Different Temperature Probability Curve Fitting Methods on the System Reliability for PCCS in AP1000

Technical Paper Publication: ICONE31-135769

Yu Yu - North China Electric Power University

Guanyu Liu - North China Electric Power University

Wanxin Feng - North China Electric Power University

Houjian Zhao - North China Electric Power University

Xuefeng Lyu - North China Electric Power University

Risk-Informed Defense-in-Depth Strategy for Nuclear Power Plant

Technical Paper Publication: ICONE31-135793

Qianwen Liu - China Nuclear Power Engineering Co., Ltd.

Yuxiang Wu - China Nuclear Power Engineering Co., Ltd.

Yuhan Wang - China Nuclear Power Engineering Co., Ltd.

Design Management Platform Maturity Research and Improvement Application

Technical Paper Publication: ICONE31-135862

Haili Shi - China Nuclear Power Engineering Co., Ltd.

Yuefei Hu - China Nuclear Power Engineering Co., Ltd.

Wenzhao Zhao - China Nuclear Power Engineering Co., Ltd.

Study on the PSA Application in Emergency Operating Procedure Development

Technical Paper Publication: ICONE31-135954

Chao Ma - China Nuclear Power Engineering Co., Ltd.

Churan Feng - China Nuclear Power Engineering Co., Ltd.

Jinyan Du - China Nuclear Power Engineering Co., Ltd.

Jian Yang - China Nuclear Power Engineering Co., Ltd.

Safety Evaluation and Optimization of Nuclear Power Plant Under Adaptive Sampling

Technical Paper Publication: ICONE31-136531

Linfeng Li - Shenzhen University

Zhen Zhang - Shenzhen University

Angi Xu - Shenzhen University

Ting Wen - Shenzhen University

Xiaomeng Dong - Shenzhen University

Ming Yang - Shenzhen University

Linxian Chen - Shenzhen University

Yong Liu - Shenzhen University

Research on the Application of Risk-Managed Technical Specifications in Passive Nuclear Power Plants

Technical Paper Publication: ICONE31-136866

Zhen Yan - NPRI

Jiajian Wang - NPRI

Gang Ma - SMNP

Jianwen Sun - NPRI

Zhenqi Wang - SMNP

Dalin Liu - NPRI

Shuting Wang - NPRI

Sheng Zhu - NPRI

01-06: Nuclear Plant Operation, Modification, Life Extension, Maintenance and Life Cycle - VI

8/8/2024 8:30AM-10:00AM - Karlin 2

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Pascal Duranton - Framatome

Co-Chair: Furu Jing - Harbin Engineering University

Co-Chair: Young Sun Jang - KONES Corp. Co.

Adaptive Refinement Simulation Model of Condenser Based on the Mechanism-Al Coupling Modeling Paradigm

Technical Paper Publication: ICONE31-135134

Furu Jing - Harbin Engineering University

Ruojun Xue - Harbin Engineering University

Jiaming Tang - Harbin Engineering University

Haofang Chong - Harbin Engineering University

Investigation in Design Technology of Load Follow Without Changing Soluble Boron of Hualong One

Technical Paper Publication: ICONE31-135183

Cui Huaiming - Nuclear Power Institute of China

Ning Zhonghao - Nuclear Power Institute of China

Liu Tongxian - Nuclear Power Institute of China

Wang Chenlin - Nuclear Power Institute of China

Li Tianya - Nuclear Power Institute of China

Cai Yun - Nuclear Power Institute of China



Seismic Response of NPP Considering the Non-Linear Soil-Structure Interaction Effects With DRM

Technical Paper Publication: ICONE31-135202

Young Sun Jang - KONES Corp. Co.

Youngoh Lee - KONES Corp. Co.

Research on Dynamic Rod Measurement Method Based on Torch Software Package for PWR

Technical Paper Publication: ICONE31-135284

Yun Cai - Nuclear Power institute of China

Tianya Li - Nuclear Power Institute of China

Rui Guo - Nuclear Power Institute of China

Tongxian Liu - Nuclear Power Institute of China

Qing Li - Nuclear Power Institute of China

Lingfang Yang - Nuclear Power Institute of China

Wenbo Zhao - Nuclear Power Institute of China

Load-Following Control of Nuclear Reactor Using Variable-Order Fuzzy Fractional Pid Controller Based on the Fractional-Space Neutron Point Kinetics Model

Technical Paper Publication: ICONE31-135371

Hetao Sun - Harbin Engineering University

Hailemichael Guadie Mengsitu - Harbin Engineering University

Xiuchun Luan - Harbin Engineering University

Jie Zhou - Harbin Engineering University

Junling Wang - Harbin Engineering University

Zhida Yang - Harbin Engineering University

Dynamic Entropy Investigation of Feed Water Heater in Nuclear Power Plant During Start-Up Process

Technical Paper Publication: ICONE31-135392

Zhijiang Zhang - Harbin Engineering University

Zhaofei Tian - Harbin Engineering University

Xiaoyu Ma - Harbin Engineering University

04-07: SMRs, Advanced Reactors, and Fusion

8/8/2024 10:30AM-12:00PM - Florenc 2

Chair: Rosa Lo Frano - University of Pisa

Co-Chair: Hitesh Bindra - Purdue University

Development of Thermal–Hydraulic and Safety Analysis

Code for a Heat Pipe Cooled Reactor

Technical Paper Publication: ICONE31-133432

Guanghui Jiao - Harbin Enginering University

Genglei Xia - Harbin Engineering University

Tao Zhou - Harbin Engineering University

Jianjun Wang - Harbin Enginering University

Optimization of Inventory Control Strategies for Part Load Operation in a sCO2 Recuperated Brayton Cycle for a 5 MWth Heat Pipe Micro Modular Reactor

Technical Paper Publication: ICONE31-133703

Matthias Peiretti - University of Stuttgart

Markus Hofer - University of Stuttgart

Michael Buck - University of Stuttgart

Ruggero Meucci - University of Stuttgart

Jörg Starflinger - University of Stuttgart

Thermo-Neutronics Coupled Simulation of a Heat Pipe Reactor Based on COMSOL

Technical Paper Publication: ICONE31-135246

Jingyu Nie - Xi'an Jiaotong University

Binqian Li - Xi'an Jiaotong University

Yingwei Wu - Xi'an Jiaotong University

Jing Zhang - Xi'an Jiaotong University

Guoliang Zhang - China Nuclear Power Technology

Research Institute

Qisen Ren - China Nuclear Power Technology Research

Institute

Yanan He - Xi'an Jiaotong University

Guanghui Su - Xi'an Jiaotong University

The Neutronics Analysis of Heat Pipe Cooled Traveling Wave Reactor Designs With High-Assay Low-Enrichment Uranium and Natural Uranium

Technical Paper Publication: ICONE31-136201

Po Hu - Shanghai Jiao Tong University

Kunfeng Ma - Shanghai Jiao Tong University





Optimal Design of a Coupling System of Heat Pipe Cooled Reactor With Energy Storage System

Technical Paper Publication: ICONE31-136516

Limin Liu - Shanghai Jiao Tong University

Ziyin Liu - Shanghai Jiao Tong University

Ziang Guo - Shanghai Jiao Tong University

Hanyang Gu - Shanghai Jiao Tong University

Numerical Investigation of High-Temperature Heat Pipes With Different Wick Structures Under Non-Uniform Heating Boundary Conditions

Technical Paper Publication: ICONE31-137029

Kailun Guo - Xi'an Jiaotong University

Qishi Sun - Xi'an Jiaotong University

Hao Sun - China Nuclear Power Technology Research Institute

Chenlong Wang - Xi'an Jiaotong University

Kang Chen - Shanghai Nuclear Engineering Research & Design Institute Co., Ltd.

Wenxi Tian - Xi'an Jiaotong University

Guanghui Su - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

07-09: Simulations and Predictions - I

8/8/2024 10:30AM-12:00PM - Liben 3

Chair: Guogiang Wang - Westinghouse Electric Co.

Co-Chair: Mengqi Wu - Tsinghua University

Co-Chair: Hideki Yagihashi - Nuclear Regulation Authority

Japan

Data Augmentation for Discharging Time Prediction of Particle Flow: A Deep Learning and Style Transfer

Approach

Technical Paper Publication: ICONE31-132744

Mengqi Wu - Tsinghua University

Yang Liu - Tsinghua University

Bin Li - Tsinghua University

Zhen Zhang - Tsinghua University

Nan Gui - Tsinghua University

Jiyuan Tu - Royal Melbourne Institute of Technology

University

Simulation Study on the Transient Operating Characteristics of Natural Circulation Coupled With PCM Energy Storage Module for the Passive Containment

Energy Storage Module for the Passive Containment Cooling System

Technical Paper Publication: ICONE31-134301

Yufan Huang - Xi'an Jiaotong University

Han Wang - Xi'an Jiaotong University

Weixiong Chen - Xi'an Jiaotong University

Xiaohu Yang - Wuhan Second Ship Design and Research

Institute

Shaodan Li - Wuhan Second Ship Design and Research

Institute

Junjie Yan - Xi'an Jiaotong University

Simulation Study of Transient Characteristics of Liquid

Lead-Bismuth Recirculation Loop

Technical Paper Publication: ICONE31-134551

Zhenhua Sheng - North China Electric Power University

Zhen Yang - North China Electric Power University

Tengjun Geng - North China Electric Power University

Shengfei Wang - North China Electric Power University

Haicai Lv - North China Electric Power University

Wentao Guo - North China Electric Power University

Fang Liu - North China Electric Power University

Fenglei Niu - North China Electric Power University

Validation of Trace Simulation for PWR Plant Small-Break LOCA

Technical Paper Publication: ICONE31-134596

Hideki Yagihashi - Nuclear Regulation Authority

Kaho Goto - Nuclear Regulation Authority

Masashi Sekine - Nuclear Regulation Authority

Naofumi Tsukamoto - Nuclear Regulation Authority

Prediction of Flow Field in Heat Transfer Tube of Natural Circulating Steam Generator Based on Neural Network

Technical Paper Publication: ICONE31-134725

He Zhang - Harbin Engineering University

Biao Liang - Harbin Engineering University

Bo Wang - Harbin Engineering University

Jiangkuan Li - Harbin Engineering University

Rui Han - Harbin Engineering University

Sichao Tan - Harbin Engineering University

Sichao ran - Harbin Engineering Oniversity

Ruifeng Tian - Harbin Engineering University



07-20: Thermal-Hydraulics Research and Applications - I

8/8/2024 10:30AM-12:00PM - Palmovka 1

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Wen He - Tsinghua University

Co-Chair: Weiyu Chu - Harbin Engineering University

Research on the Film Thickness Characteristics of Jet Condenser Nozzle

Technical Paper Publication: ICONE31-135712

Weiyu Chu - Harbin Engineering University

Chonghai Huang - Wuhan Second Ship Design and

Research Institute

Qi Xiao - Wuhan Second Ship Design and Research

Institute

Zhaoming Meng - Harbin Engineering University

Yilin Fu - Harbin Engineering University

Assessment of the Force-Balance Model in Predicting the Bubble Departure Diameter in Inclined Channels

Technical Paper Publication: ICONE31-131958

Wen He - Tsinghua University

Jinyu Han - Tsinghua University

Chenru Zhao - Tsinghua University

Hanliang Bo - Tsinghua University

Application of Modal Decomposition Techniques for Reduced-Order Modelling of Once-Through Steam Generator

Technical Paper Publication: ICONE31-132735

Yifan Xu - Harbin Engineering University

Minjun Peng - Harbin Engineering University

Genglei Xia - Harbin Engineering University

The Effective Thermal Conductivity Model of Dispersion Fuel Elements Based on Effective Matrix Approximation

Technical Paper Publication: ICONE31-133655

Tianchen Qiu - Tsinghua University

Jun Sun - Tsinghua University

Study on Scaling Method for Natural Circulation Instability in Narrow Channel

Technical Paper Publication: ICONE31-134167

Yao Yao - Southeast University

Tao Zhou - Southeast University

Dongli Huang - Southeast University

Jianyu Tang - Southeast University

Wenbin Liu - Southeast University

Shilei Dun - Southeast University

Analysis of Energy Dissipation Effect of Fluid-Filled Capacitive Structure in the Water Hammer Process

Technical Paper Publication: ICONE31-134432

Linging Yang - Tsinghua University

Benke Qin - Tsinghua University

Yanlin Li - Tsinghua University

Yue Ma - Tsinghua University

Hanliang Bo - Tsinghua University

02-10: Physics and Transport Theory - II

8/8/2024 10:30 AM to 12:00 PM - Karlin 1

Chair: Hakan Ozaltun - U.S. Nuclear Regulatory Commission

Co-Chair: Zhang Hongjian - Tsinghua University

Co-Chair: Baoxin Yuan - China Academy of Engineering

Physics

Further Research on Neutron Noise Calculation Under Plate Fuel Failure Conditions Based on Frequency Domain Finite Element Method

Technical Paper Publication: ICONE31-132052

Baoxin Yuan - China Academy of Engineering Physics

Huiyi Lv - SouthWest University of Science and Technology

Herong Zeng - China Academy of Engineering Physics

Jie Zheng - China Academy of Engineering Physics

Zihan Chen - China Academy of Engineering Physics

Huan Huang - China Academy of Engineering Physics

Songbao Zhang - China Academy of Engineering Physics

Dazhi Qian - China Academy of Engineering Physics





Improved Athermal Recombination Corrected Dpa Model for Displacement Damage Cross-Section Calculation

Technical Paper Publication: ICONE31-135163

Wen Yin - Harbin Engineering University

Tiejun Zu - Xi'an Jiaotong University

Liangzhi Cao - Xi'an Jiaotong University

Thermal Cut-Off Energy for Accurate Analysis of Prismatic High-Temperature Gas-Cooled Reactor

Technical Paper Publication: ICONE31-130801

Satoshi Takeda - Osaka University

Takanori Kitada - Osaka University

Akio Yamamoto - Nagoya University

Kazuya Yamaji - Mitsubishi Heavy Industries, Ltd.

Hiroki Koike - Mitsubishi Heavy Industries, Ltd.

Koji Asano - Mitsubishi Heavy Industries, Ltd.

Evaluation of Expansion Reactivity Based on Reactivity Coefficient for Sodium-Cooled Fast Reactor

Technical Paper Publication: ICONE31-132277

Satoshi Takeda - Osaka University

Takanori Kitada - Osaka University

Eiji Hoashi - Osaka University

Takafumi Okita - Osaka University

Validation of Doppler Reactivity Feedback in SPERT-III E-Core With the Best-Estimate Transient Code Trac Toshiba Version

Technical Paper Publication: ICONE31-134116

Tohru Egawa - Toshiba Energy Systems & Solutions Corporation

Mikio Tokashiki - Toshiba Energy Systems & Solutions Corporation

Takamasa Miyaji - Toshiba Energy Systems & Solutions Corporation

Takanori Fukunaga - Toshiba Energy Systems & Solutions Corporation

Research on the Dependency Between Transuranic Isotopes and Burnup in Pebble Bed High-Temperature Reactors

Technical Paper Publication: ICONE31-132764

Zhang Hongjian - Tsinghua University

Zhu Qing - Tsinghua University Zhang Liguo - Tsinghua University

Ma Tao - Tsinghua University

02-13: Structural Evaluation, Performance Assessment, Multiphysics Coupling - III

8/8/2024 10:30AM-12:00PM - Karlin 3

Chair: Hakan Ozaltun - U.S. Nuclear Regulatory Commission

Co-Chair: Kun Zhuang - Nanjing University of Aeronautics and Astronautics

Co-Chair: Zhengang Duan - Chongqing University

Investigation on Burst Behaviors of Cr-Coated Cladding Under Simulated Loca Conditions

Technical Paper Publication: ICONE31-134397

Zhengang Duan - Chongqing University

Bo Yuan - Chongqing University

Qinglong Wen - Chongqing University

Kang Chen - Chongqing University

Neutronics-Mechanics Coupling for Fast Transient Simulation in Molten Salt Reactors

Technical Paper Publication: ICONE31-133060

Théo Vidril - CEA

Stanislas De Lambert - CEA

Nicolas Lelong - CEA

Florence Drui - CEA

Cyril Patricot - CEA

Elsa Merle - Grenoble INP, CNRS

Improvement of Thermal Feedback Model in Bamboo-Core From Parallel-Channel to Subchannel

Technical Paper Publication: ICONE31-135973

Hengrui Zhang - Xi'an Jiaotong University

Yunzhao Li - Xi'an Jiaotong University

Sicheng Wang - Xi'an Jiaotong University

Yisong Li - Xi'an Jiaotong University

Yiling Liang - Xi'an Jiaotong University

Method Research on the Model Optimization of Whole-Core Fuel-Assembly Bowing Based on 3D Variational Algorithm and the Measurement Values

Technical Paper Publication: ICONE31-136183

Lin Guo - Xi'an Jiaotong University Kai Zhang - Xi'an Jiaotong University



Chenghui Wan - Xi'an Jiaotong University

Hongchun Wu - Xi'an Jiaotong University

Neutronic and Thermal-Hydraulic Analysis for a Small Liquid-Solid Dual-Fuel Reactor With Different Fuel Types

Technical Paper Publication: ICONE31-134828

Zhichao Qiu - Nanjing University of Aeronautics and Astronautics

Kun Zhuang - Nanjing University of Aeronautics and Astronautics

Yongzhan Wang - Nanjing University of Aeronautics and Astronautics

Xiaoyu Wang - Nanjing University of Aeronautics and Astronautics

Lina Deng - Nanjing University of Aeronautics and Astronautics

Yingzheng Wang - Nanjing University of Aeronautics and Astronautics

Sipeng Wang - Nanjing University of Aeronautics and Astronautics

04-14: SMRs, Advanced Reactors and Fusion

8/8/2024 10:30AM-12:00PM - Karlin 4

Chair: Rosa Lo Frano - University of Pisa

Current Results of BME NTI in the ECC-SMART Project: Different Analysis on the SCW-SMR

Technical Paper Publication: ICONE31-135760

Tamás Varju - Budapest University of Technology and Economics

Attila Kiss - Budapest University of Technology and Economics

Csenge Antók - Budapest University of Technology and Economics

Boglárka Babcsány - Budapest University of Technology and Economics

Ildikó Boros - Budapest University of Technology and Economics

Péter Mészáros - Budapest University of Technology and

Zeno Bertesina - Budapest University of Technology and Economics

Szabolcs Czifrus - Budapest University of Technology and Economics

Differential Method for Predicting Heat Transfer Deterioration Regimes in Supercritical Channels and Rod Assemblies

Technical Paper Publication: ICONE31-136180

Vladislav Filonov - IPP-Centre LLC

Yuliia Filonova - IPP-Centre LLC

Olexander Kovalenko - IPP-Centre LLC

Dmitriy Fedorov - IPP-Centre LLC

Evaluation of Three-Dimensional Initial Dynamics of the Decompression Wave at LB LOCA in the Advanced Supercritical Reactor ECC-SMART

Technical Paper Publication: ICONE31-136271

Vladislav Filonov - IPP-Centre LLC

Yaroslav Dubyk - IPP-Centre LLC

Olexander Kovalenko - IPP-Centre LLC

Yuliia Filonova - IPP-Centre LLC

Dmitriy Fedorov - IPP-Centre LLC

Effect of the Heat Transfer Correlation Choice on the Coupled Assessment of Energy Release and Stress-Strain State of an Elementary Supercritical Fuel Rod Under Nuclear Heating Conditions

Technical Paper Publication: ICONE31-136275

Vladislav Filonov - IPP-Centre LLC

Olexander Kovalenko - IPP-Centre LLC

Yaroslav Dubyk - IPP-Centre LLC

Yuliia Filonova - IPP-Centre LLC

Dmitriy Fedorov - IPP-Centre LLC

A Preliminary Thermodynamic Model of Hydrogen Generation Using Solid Oxide Electrolysis Cell (SOEC) Coupled With a High-Temperature Gas-Cooled Reactor

Technical Paper Publication: ICONE31-135353

Wenxiu Gao - Tsinghua University

Xiongbin Liu - Tsinghua University

Zhende Zhou - Huaneng Nuclear Energy Technology Research Institute

Xiaowei Li - Tsinghua University





08-06: Computational Fluid Dynamics (CFD) and Applications - VI

8/8/2024 10:30AM-12:00PM - Palmovka 2

Chair: Yassin Hassan - Texas A&M

Co-Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Sofiane Benhamadouche - Electricite De France

R & D

Co-Chair: Samuel Oke - Harbin Engineering University

Co-Chair: Zhelun Ai - Sun Yat-sen University

Research on CFD Calculation and Analysis Technology of Porous Media in Sodium Cooled Fast Reactor Core

Technical Paper Publication: ICONE31-135291 Yuchen Sun - Harbin Engineering University

Guangliang Chen - Harbin Engineering University

Xinli Yin - Harbin Engineering University

Hao Qian - Harbin Engineering University

Yizhi Tian - Harbin Engineering University

Senyong Zhang - Harbin Engineering University

Menglai Li - Harbin Engineering University

Study on the Flow Characteristics and Impact of Wet Steam Condensation in Nuclear Power Steam Turbine

Technical Paper Publication: ICONE31-135359

Zhuojun Jiang - Chongqing University

Wan Sun - Chongging University

Simiao Tang - Chongqing University

Liangming Pan - Chongqing University

Luteng Zhang - Chongqing University

Zaiyong Ma - Chongqing University

Numerical Simulation of Steam-Seawater Suppression

Technology for Miniature Containment

Technical Paper Publication: ICONE31-135394

An Cao - Harbin Engineering University

Shipeng Niu - China Nuclear Power Engineering Co., Ltd

Jianfa Li - China Nuclear Power Engineering Co., Ltd

Yongzhen Hua - China Nuclear Power Engineering Co., Ltd

Xiangjie Qi - Harbin Engineering University

Jiayu Xiao - Harbin Engineering University

Zhaoming Meng - Harbin Engineering University

Numerical Analysis and Model Evaluation on Flow and Heat Transfer Characteristics of LBE in a Pipe Based on DNS Data

Technical Paper Publication: ICONE31-135396

Zhelun Ai - Sun Yat-sen University

Jie Li - Sun Yat-sen University

Yumeng Sun - Sun Yat-sen University

Heng Miao - Sun Yat-sen University

Numerical Investigation of Convective Heat Transfer Performance of Hybrid Nanofluid Flowing Through Square Channel in PWR Fuel Rod Assembly

Technical Paper Publication: ICONE31-135419

Samuel Oke - Harbin Engineering University

Puzhen Gao - Harbin Engineering University

Olatomide Fadodun - Obafemi Awolowo University

Mathew A. Jayeola - Harbin Engineering University

Numerical Investigation of Vapor-Liquid Direct Contact Condensation Heat Transfer Behavior Under the Spray Condition

Technical Paper Publication: ICONE31-135440

Yiwei Wang - Harbin Engineering University

Hongyang Wei - Harbin Engineering University

Puzhen Gao - Harbin Engineering University

Ruifeng Tian - Harbin Engineering University

Sichao Tan - Harbin Engineering University

08-10: Computational Fluid Dynamics (CFD) and Applications - X

8/8/2024 10:30AM-12:00PM - Palmovka 3

Chair: Yassin Hassan - Texas A&M

Co-Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Tomas Korinek - Czech Technical University in

Prague

Co-Chair: Shunyang Li - Tsinghua University



Coupled Thermal-Hydraulics and Neutron Transport Calculations of Small Modular Reactor Using Serpent, OpenFOAM and SubChanFlow Codes

Technical Paper Publication: ICONE31-136127

Tomas Korinek - Czech Technical University in Prague

Jiri Zavorka - University of West Bohemia

Martin Lovecky - University of West Bohemia

Radek Skoda - Czech Technical University in Prague

Numerical Simulation of Nucleate Boiling Process by High-Order Lattice Boltzmann Method

Technical Paper Publication: ICONE31-136142

Shunyang Li - Tsinghua University

Li Wan - Tsinghua University

Nan Gui - Tsinghua University

Xingtuan Yang - Tsinghua University

Jiyuan Tu - Royal Melbourne Institute of Technology

University

Shengyao Jiang - Tsinghua University

Study of Compressible Flow in Tubes Containing Mesh Structures

Technical Paper Publication: ICONE31-136153

Jun Xu - Nuclear Power Institute of China

Hongxing Yu - Nuclear Power Institute of China

Jian Deng - Nuclear Power Institute of China

Yu Liu - Nuclear Power Institute of China

Luteng Zhang - Chongqing University

Langlang Tian - Chongqing University

Lei Zhong - Nuclear Power Institute of China

Study on Single-Phase Flow and Heat Transfer Characteristics of Vertical Narrow Rectangular Channel With Nonuniform Heating

Technical Paper Publication: ICONE31-136177

Zhu Di - Harbin Engineering University

Sun Ruilei - Harbin Engineering University

Li Yang - Harbin Engineering University

Tan Sichao - Harbin Engineering University

Tian Ruifeng - Harbin Engineering University

Numerical Investigation of Natural Convection Heat Transfer Characteristics in a Swinging Cavity

Technical Paper Publication: ICONE31-136322

Lize Xing - Tsinghua University

Xiongbin Liu - Tsinghua University

08-11: Computational Fluid Dynamics (CFD) and Applications - XI

8/8/2024 10:30AM-12:00PM - Palmovka 4

Chair: Yassin Hassan - Texas A&M

Co-Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Yasuo Hattori - Central Research Institute of

**Electric Power Industry** 

Co-Chair: Vladimir Stevanovic - University of Belgrade

Co-Chair: Tomasz Kwiatkowski - National Centre for

**Nuclear Research** 

Numerical Simulation of Pool Boiling With Two-Fluid and Grid-Resolved Wall Model

Technical Paper Publication: ICONE31-136496

Milan Petrovic - University of Belgrade

Vladimir Stevanovic - University of Belgrade

Milica Ilic - University of Belgrade

Sanja Milivojevic - University of Belgrade

Evaluation of Hydrodynamic Effects for Flow Accelerated Corrosion (FAC) at Weld Section

Technical Presentation Only: ICONE31-130797

Ryo Morita - Central Research Institute of Electric Power Industry

Tomohisa Yuasa - Central Research Institute of Electric Power Industry

Yuta Uchiyama - Central Research Institute of Electric Power Industry

Takayuki Yamagata - Niigata University

Optimization Design of High-Temperature Gas-Cooled Core Coolant Channel Based on NURBS

Technical Presentation Only: ICONE31-132598

Qi Lu - Nuclear Power Institute of China

Wenbin Han - Nucleaer Power Institute of China

Jian Deng - Nuclear Institue of China





Fluid-Induced Vibration Assessment in Main Steam Pipe Using Computational Fluid Dynamics

Technical Presentation Only: ICONE31-135693

Haein Lee - KEPCO-ENC Ahram Lee - KEPCO-ENC Younho Won - KEPCO-ENC Gon Hwangbo - KEPCO-ENC

Analysis of Flow Pulsations in Triangular and Square Rod Bundles

Technical Presentation Only: ICONE31-136058

Tomasz Kwiatkowski - National Centre for Nuclear Research

Anna Talarowska - European Nuclear Society Young Generation Network

Afaque Shams - King Fahd University of Petroleum and Minerals

Osman Siddiqui - King Fahd University of Petroleum and Minerals

A Eulerian-Lagrangian Investigation on Graphite Aerosol Transport in the Containment During a Water-Ingress Accident of HTGR

Technical Presentation Only: ICONE31-136361

Yiyang Zhang - Institute of Nuclear and New Energy Technology

Zhu Fang - Institute of Nuclear and New Energy Technology

Xinxin Wu - Institute of Nuclear and New Energy Technology

Libin Sun - Institute of Nuclear and New Energy Technology

01-07: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VII

8/8/2024 10:30AM-12:00PM - Karlin 2

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Pascal Duranton - Framatome

Co-Chair: Saeko Tokuomi - Kumamoto University

Co-Chair: Xiuchun Zhang - Harbin Engineering University

Remote Tapping Inspection Method Employing a String

Technical Paper Publication: ICONE31-135414

Saeko Tokuomi - Kumamoto University

Kazuya Mori - Kumamoto University

Yasutaka Ohshima - Kumamoto University

Research on the Criteria for Single Protection Channel Power Failure in Nuclear Power Plants

Technical Paper Publication: ICONE31-135415

Xiuchun Zhang - Harbin Engineering University

Hong Xia - Harbin Engineering University

Yongkang Liu - China Nuclear Power Technology Research Institute Co., Ltd.

Shaomin Zhu - Harbin Engineering University

Jiyu Zhang - Harbin Engineering University

Junjun Xu - Suzhou Nuclear Power Research Institute Co., Ltd.

Yingying Jiang - Harbin Engineering University

Wenzhe Yin - Harbin Engineering University

Jie Zhang - Suzhou Nuclear Power Research Institute Co., Ltd.

Jie Liu - Suzhou Nuclear Power Research Institute Co., Ltd.

Research and Application of Containment Structural Health Monitoring System During Operation of Nuclear Power Plant

Technical Paper Publication: ICONE31-135418

Song Mengyan - China Nuclear Power Engineering Company

Yao Di - China Nuclear Power Engineering Company

Zhang Chaoqi - China Nuclear Power Engineering Company

Jiang Di - China Nuclear Power Engineering Company

Zhang Peiyao - China Nuclear Power Engineering Company



Predictions of Component Remaining Useful Life Using Bayesian LSTM for Reactor Coolant Pump

Technical Paper Publication: ICONE31-135439

Renyi Xu - Science and Technology on Reactor System Design Technology Laboratory

Yan Wang - Science and Technology on Reactor System Design Technology Laboratory

Minjun Peng - Harbin Engineering University

Huaiming Cui - Science and Technology on Reactor System Design Technology Laboratory

Hang Wang - Harbin Engineering University

Chengxiao Kuang - Science and Technology on Reactor System Design Technology Laboratory

Research on Fault Diagnosis Framework of Nuclear Power Plant Rotating Equipment Based on Unity3D

Technical Paper Publication: ICONE31-135447

Zhujun Jia - Harbin Engineering University

Hong Xia - Harbin Engineering University

Wenzhe Yin - Harbin Engineering University

Yingying Jiang - Harbin Engineering University

Functional Failure Probability Assessment of Passive Systems Based on Meta-Model

Technical Paper Publication: ICONE31-135651

Shiqi Zhang - Harbin Engineering University

Minjun Peng - Harbin Engineering University

Genglei Xia - Harbin Engineering University

Chenyang Wang - Harbin Engineering University

He Shang - Harbin Engineering University

07-10: Simulations and Predictions - II

8/8/2024 3:00PM-4:30PM - Liben 3

Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Bo Wang - Harbin Engineering University

Co-Chair: Deyang Gao - Tsinghua University

Research on Long Term Trend Prediction of Nuclear Power

Plants Based on Integrated Framework

Technical Paper Publication: ICONE31-134726

Canyi Tan - Harbin Engineering University

Biao Liang - Harbin Engineering University

Bo Wang - Harbin Engineering University

Jiangkuan Li - Harbin Engineering University

Rui Han - Harbin Engineering University

Sichao Tan - Harbin Engineering University

Ruifeng Tian - Harbin Engineering University

Research on Accident Prediction of Nuclear Power Plants Based on Deep Learning

Technical Paper Publication: ICONE31-134779

Wei Lv - Harbin Engineering University

Tong Li - Harbin Engineering University

Bo Wang - Harbin Engineering University

Sichao Tan - Harbin Engineering University

Jiangkuan Li - Harbin Engineering University

Ruifeng Tian - Harbin Engineering University

Research on Key Parameter Prediction Technology of Small Modular Pressurized Water Reactor Under Ocean Conditions

Technical Paper Publication: ICONE31-134788

Yiheng Cheng - Harbin Engineering University

Tong Li - Harbin Engineering University

Sichao Tan - Harbin Engineering University

Bo Wang - Harbin Engineering University

Zhengxi He - Nuclear Power Institute of China

Ruifeng Tian - Harbin Engineering University





Molecular Dynamics Simulation of the Nanostructure-Induced Bubble Nucleation

Technical Paper Publication: ICONE31-134821

Deyang Gao - Tsinghua University

Yue Ma - Tsinghua University

Hanliang Bo - Tsinghua University

Prediction of Sensor Data Accuracy in Thermal Experimental Benches Using GRU-GCN Neural Network Model

Technical Paper Publication: ICONE31-134843

Linjun Yang - Harbin Engineering University

Tong Li - Harbin Engineering University

Yongchao Liu - Harbin Engineering University

Bo Wang - Harbin Engineering University

Jiangkuan Li - Harbin Engineering University

Jiming Wen - Harbin Engineering University

Sichao Tan - Harbin Engineering University

Ruifeng Tian - Harbin Engineering University

Prediction of Thermal-Hydraulic Parameters for Autonomous Load Following LFR Core Using Surrogate Model

Technical Paper Publication: ICONE31-134988

Kefan Zhang - University of Science and Technology of China

Wenshun Duan - University of Science and Technology of Chian

Junjia Zhang - University of Science and Technology of

Hongli Chen - University of Science and Technology of

07-11: Simulations and Predictions - III

8/8/2024 3:00PM-4:30PM - Palmovka 4

Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Guido Mazzini - Centrum výzkumu Řež s. r. o.

Co-Chair: Zhiyuan Sun - Tsinghua University

Comparative Investigation of Eulerian and VOF Models in

Gas-Liquid Two-Phase Flow Simulation

Technical Paper Publication: ICONE31-135117

Zhiyuan Sun - Tsinghua University

Wen He - Tsinghua University

Jinyu Han - Tsinghua University

Zhanwei Liu - Tsinghua University

Hanliang Bo - Tsinghua University

CFD Simulations of Helium Flow Through Partial Heating Pebble Bed

Technical Paper Publication: ICONE31-135126

Jiajie Li - Tsinghua University

Yu Ji - Tsinghua University

Jun Sun - Tsinghua University

Inquiry on the Effect of Heating Structures in the Prediction of Flow Stability at Supercritical Pressures

Technical Paper Publication: ICONE31-135176

Alessio Betti - Università di Pisa

Andrea Pucciarelli - Università di Pisa

Walter Ambrosini - Università di Pisa

OpenFOAM Based Benchmarking Simulations of Xenon Gas Behavior in Molten Lead for Advanced Fast Reactors

Technical Paper Publication: ICONE31-135256

Emir Hanic - Harbin Engineering University

Xiang Wang - Harbin Eingineering University

Simulation of Energy Well Micro Modular Reactor Using System Codes

Technical Paper Publication: ICONE31-135616 Guido Mazzini - Centrum Výzkumu Řež s. r. o.

Marek Bencik - UJV s.a.s.

Mathieu Reungoat - Centrum Výzkumu Rez s.r.o.



Neutronics/Thermal-Hydraulics Coupling Simulation Using JAMPAN in a Single BWR Fuel Assembly

Technical Paper Publication: ICONE31-135974
Tomohiro Kamiya - Japan Atomic Energy Agency
Taku Nagatake - Japan Atomic Energy Agency
Ayako Ono - Japan Atomic Energy Agency
Kenichi Tada - Japan Atomic Energy Agency
Ryoichi Kondo - Japan Atomic Energy Agency
Yasunobu Nagaya - Japan Atomic Energy Agency
Hiroyuki Yoshida - Japan Atomic Energy Agency

07-21: Thermal-Hydraulics Research and Applications - II

8/8/2024 3:00PM-4:30PM - Palmovka 1

Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Hongwei Jiang - Harbin Engineering University Co-Chair: Yoshihiro Ishikawa - Rasa Industries, Ltd.

Advanced Radioactive Material Removal System Using Silver Zeolite (7) Evaluation of Noble Gas Adsorption Characteristics by XeA

Technical Paper Publication: ICONE31-134643 Yoshihiro Ishikawa - Rasa Industries, Ltd. Koji Endo - Rasa Industries, Ltd. Tadashi Narabayashi - Tokyo Tech Yasuhiro Kawahara - Kimura Chemical Plants Yuta Nakasaka - Hokkaido University

Development and Preliminary Validation of the Fine Fuel Cell Subchannel Analysis Code Cunlun Technical Paper Publication: ICONE31-134838 Hongwei Jiang - Harbin Engineering University Guangliang Chen - Harbin Engineering University Zhaofei Tian - Harbin Engineering University Design Calculation of Ultra-High Temperature and High Pressure Helium-Xenon Mixed Gas Radiator Technical Paper Publication: ICONE31-135059 Yongwang Xu - China Institute of Atomic Energy

Minghui Duan - China institute of Atomic Energy Junhan Wei - China institute of Atomic Energy Minfu Zhao - China Institute of Atomic Energy Dongxu Zhang - China Institute of Atomic Energy Qingyuan Li - China Institute of Atomic Energy

Study on the Dynamic Characteristics of the Supercritical CO2 Recompression Brayton Cycle for a Single Island Lead-Bismuth Generator Set

Technical Paper Publication: ICONE31-135095

Yifan Zhang - Xi'an Thermal Power Research Institute Co., Ltd.

Hongzhi Li - Xi'an Thermal Power Research Institute Co., Ltd.

Yujia Zhou - Xi'an Thermal Power Research Institute Co., Ltd.

Research on Computation Method of Bubble Volume Based on Machine Learning

Technical Paper Publication: ICONE31-135162

Yongwang Ding - Tsinghua University

Xinxing Liu - Harbin Engineering University

Zhaoming Meng - Harbin Engineering University

Han Zhang - Tsinghua University

Fu Li - Institute of Nuclear and New Energy Technology

02-11: Structural Evaluation, Performance Assessment, Multiphysics Coupling - I

8/8/2024 3:00PM-4:30PM - Karlin 1

Chair: Hakan Ozaltun - U.S. Nuclear Regulatory Commission

Co-Chair: Ao Zhang - Shanghai Institute of Applied Physics Co-Chair: Jiri Zavorka - University of West Bohemia





Molten Salt Reactor Multi-Physics Simulations by Using a MOOSE-Based Application Suanni

Technical Paper Publication: ICONE31-136944

Ao Zhang - Shanghai Institute of Applied Physics

Ming Dai - Shanghai Institute of Applied Physics

Shaopeng Xia - Shanghai Institute of Applied Physics

Jingen Chen - Shanghai Institute of Applied Physics

Xiangzhou Cai - Shanghai Institute of Applied Physics

Irradiation-Thermal-Mechanical Coupling Behaviors of a Typical TRISO/SiC Fuel Element Based on Actual Distribution

Technical Paper Publication: ICONE31-135863

Zhang Liangjie - Nuclear Power Institute of China

Chen Ping - Nuclear Power Institute of China

Liu Shichao - Nuclear Power Institute of China

Wang Haoyu - Nuclear Power Institute of China

Wei Chong - Northwestern Polytechnical University

Pan Xiaoqiang - Nuclear Power Institute of China

Numerical Simulation Research on Irradiation-Thermal-Mechanical Behavior of CDM Fuel in Different Types of Reactors

Technical Paper Publication: ICONE31-135696

Changbing Tang - Nuclear Power Institute of China

Yuanming Li - Nuclear Power Institute of China

Haoyu Liao - Nuclear Power Institute of China

A Review of the Performance Analysis of Plate Type Fuel Elements in High-Flux Reactors

Technical Paper Publication: ICONE31-135005

Yue Song - Tsinghua University

Heng Xie - Tsinghua University

Meng Lv - Tsinghua University

Structural Design and Analysis of Plate-Type Fuel Assembly of Research Reactor

Technical Paper Publication: ICONE31-132740

Hyun-Jung Kim - Korea Atomic Energy Research Institute

Young-Wook Tahk - Korea Atomic Energy Research

Institute

Dong-Hyun Kim - Korea Atomic Energy Research Institute

Analysis of the Effect of Random Bowing of the Fuel Pin on the Power Distribution in the Fuel Assembly

Technical Paper Publication: ICONE31-136287

Jiri Zavorka - University of West Bohemia

Martin Lovecky - University of West Bohemia

Radek Skoda - Czech Technical University in Prague

Petra Monhartova - ŠKODA JS a.s

02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV

8/8/2024 3:00PM-4:30PM - Karlin 3

Chair: Hakan Ozaltun - U.S. Nuclear Regulatory

Commission

Co-Chair: Quanyao Ren - Nuclear Power Institute of China

Co-Chair: Cuijie Pan - China Institute of Atomic Energy

Experimental Study on the Liquid Film Behaviors of Annular Flow in the Rectangular Channel

Technical Paper Publication: ICONE31-136299

Quanyao Ren - Science and Technology on Reactor System

Design Technology Laboratory

Zeng-Ping Pu - Science and Technology on Reactor System

Design Technology Laboratory

Qingche He - Science and Technology on Reactor System

Design Technology Laboratory

Haidong Liu - Chongqing University of Technology

Hui He - Shanghai Jiaotong University

Zhong Xiao - Science and Technology on Reactor System

Design Technology Laboratory

Liang-Ming Pan - Chongqing University

The Solitary Wave and Advanced Nuclear Energy System

Technical Presentation Only: ICONE31-135355

Jin Huang - East China University of Technology



Benchmark Critical Experiments of Two Slab Cores Containing 19.75% Enriched Uranyl Nitrate Solution Technical Presentation Only: ICONE31-139495 Qi Zhou - China Institute of Atomic Energy Qingfu Zhu - China Institute of Atomic Energy Zhaodong Xia - China Institute of Atomic Energy Yuting Cheng - China Institute of Atomic Energy Huanxing Li - China Institute of Atomic Energy

Theoretical and Experimental Validation of Core Management System Code Package of the Annular Fuel Technical Presentation Only: ICONE31-139586 Cuijie Pan - China Institute of Atomic Energy Qingfu Zhu - China Institute of Atomic Energy Qi Zhou - China Institute of Atomic Energy

Zhaodong Xia - China Institute of Atomic Energy Geng Zhang - China Institute of Atomic Energy Yuting Cheng - China Institute of Atomic Energy

04-08: SMRs, Advanced Reactors and Fusion 8/8/2024 3:00PM-4:30PM - Florenc 2

Chair: Rosa Lo Frano - University of Pisa

Preliminary Core Design Analysis of Core Criticality and Heat Transfer of the All-Solid-State Micro-Reactor Technical Paper Publication: ICONE31-135017 Takeshi Koike - Mitsubishi Heavy Industries, Ltd. Koji Asano - Mitsubishi Heavy Industries, Ltd. Mizuki Yamada - Mitsubishi Heavy Industries, Ltd. Satoru Kamohara - Mitsubishi Heavy Industries, Ltd. Tadakatsu Yodo - Mitsubishi Heavy Industries, Ltd. Nozomu Murakami - Mitsubishi Heavy Industries, Ltd.

Preliminary Design and Transient Simulation of a Nuclear-Solar Hybrid System Using an Open-Air Brayton Cycle
Technical Paper Publication: ICONE31-135136
Jiaolong Deng - Shanghai JiaoTong University
Chaoran Guan - Shanghai JiaoTong University
Xiaojing Liu - Shanghai JiaoTong University
Hui He - Shanghai JiaoTong University
Xiang Chai - Shanghai JiaoTong University

Feasibility and Safety Analysis of Solid-State Core Reactor for Lunar Surface Exploration Technical Paper Publication: ICONE31-135172 Yugao Ma - Nuclear Power Institute of China Jiahao Lu - Chengdu University of Technology Yue Liu - Chengdu University of Technology

Suyi Zhang - Chengdu University of Technology Muhao Zhang - Chengdu University of Technology

Criteria for Selecting Nuclear Reactors for Merchant Shipping

Technical Paper Publication: ICONE31-135177

Jan Emblemsvag - Norwegian University of Science and Technology

César Hueso Ordóñez - IDOM Cristian Garrido Tamm - IDOM

Terje Strand - Norwegian University of Science and Technology

Helge Thoresen - Norwegian University of Science and Technology

Javier Santos Ortigosa - IDOM

Alejandria Perez - KTH Royal Institute of Technology

Yolanda Mugica Colilles - IDOM

Alba Esteban Izquierdo - IDOM

Application of Virtual Reality Technology in Human Factors Verification of Nuclear Power Plant Design

Technical Paper Publication: ICONE31-136054

Dong Hao - China Nuclear Power Engineering Co., Ltd. Yanfang Fan - China Nuclear Power Engineering Co., Ltd. Binghe Bai - China Nuclear Power Engineering Co., Ltd.





Numerical Simulation of Agglomeration Characteristics of Liquid Lead-Bismuth Eutectic (LBE) Impurity Particles

Technical Paper Publication: ICONE31-135019

Dingsheng Lu - Xi'an Jiaotong University

Yupeng Yang - Xi'an Jiaotong University

Xiao Pang - Xi'an Jiaotong University

Chenglong Wang - Xi'an Jiaotong University

Wenxi Tian - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

G.H. Su - Xi'an Jiaotong University

08-07: Computational Fluid Dynamics (CFD) and Applications - VII

8/8/2024 3:00PM-4:30PM - Palmovka 2

Chair: Yassin Hassan - Texas A&M

Co-Chair: Guoqiang Wang - Westinghouse Electric Co. Co-Chair: Tian Ruifeng - Harbin Engineering University

Co-Chair: Tianyi Huang - Tsinghua University

Co-Chair: Junshuai Sun - Harbin Engineering University

Simulation Study of Nuclear Heating Reactor Control

Method in Slight Boiling Operation Mode

Technical Paper Publication: ICONE31-135458

Tianyi Huang - Tsinghua University

Jun Sun - Tsinghua University

Heng Xie - Tsinghua University

Numerical Study of Flow-Induced Vibration of Square Tube Bundle Structures Under Ocean Conditions Based on

Large Eddy Simulation

Technical Paper Publication: ICONE31-135476

Junshuai Sun - Harbin Engineering University

Rulei Sun - Harbin Engineering University

Xiaoqiang He - Harbin Engineering University

Jiming Wen - Harbin Engineering University

Sichao Tan - Harbin Engineering University

Ruifeng Tian - Harbin Engineering University

Study on Flow Fluctuation Attenuation in the L-Shaped Pipe With Spring Vibrator

Technical Paper Publication: ICONE31-135505

Sipeng Wang - Nanjing University of Aeronautics and Astronautics

Jin Chen - Nanjing University of Aeronautics and Astronautics

Zehang Kang - Nanjing University of Aeronautics and Astronautics

Zhongcheng Yue - Nanjing University of Aeronautics and Astronautics

Kun Zhuang - Nanjing University of Aeronautics and Astronautics

Coherent Structure Numerical Simulation and Heat Transfer Study of Reactor Coolant

Technical Paper Publication: ICONE31-135545

Lixuan Zhang - Harbin Engineering University

Guangliang Chen - Harbin Engineering University

Zhaofei Zhang - Harbin Engineering University

Hao Qian - Harbin Engineering University

Yuhang Zhang - Harbin Engineering University

Rui Li - Harbin Engineering University

New Turbulent Prandtl Number Model for Liquid Metal Based on DNS Results

Technical Paper Publication: ICONE31-135583

Hao Fu - North China Electric Power University

Houjian Zhao - North China Electric Power University

Xiaowei Li - Tsinghua University

Xinxin Wu - Tsinghua University

Xuefeng Lyu - North China Electric Power University

Fang Liu - North China Electric Power University

Yu Yu - North China Electric Power University

Wei Xu - North China Electric Power University

Analysis of Hydrogen Transport Operation Under Multiple Drive Sources in Containment

Technical Paper Publication: ICONE31-135609

Xinyan Liu - Harbin Engineering University

Li Gao - China Nuclear Power Engineering Co. Ltd.

Zongwen Hu - China Nuclear Power Engineering Co. Ltd.

Zhongning Sun - Harbin Engineering University

Haozhi Bian - Harbin Engineering University

Zixiang Ye - Harbin Engineering University



05-04: Nuclear Engineering and Safety Analysis 8/8/2024 3:00PM-4:30PM - Karlin 4

Chair: Fredrick McCrory - Sandia National Laboratories

Co-Chair: Brian Fant - Bechtel

Co-Chair: Alessandro Petruzzi - Nuclear and Industrial

Engineering

Co-Chair: Dmitry Grishchenko - KTH Royal Institute of

Technology

Co-Chair: Scott Sanborn - Sandia National Laboratories

Co-Chair: Takeshi Yamada - Hitachi-Ge Nuclear Energy,

Ltd.

Co-Chair: Tomohiko Ikegawa - Hitachi Co-Chair: Hideki Horie - Toshiba Corp

Co-Chair: Patrick Frias - U.S. Department of Energy

Co-Chair: Hongxing Yu - Nuclear Power Institute of China

Co-Chair: Si-chao Tan - Harbin Engineering University

Co-Chair: Ronghua Chen - Xi'An Jiao Tong University

Co-Chair: Songtao Ji -

Seismic Fluid-Structure-Interaction Analysis of NHR200-II Fuel Assembly

Technical Paper Publication: ICONE31-132757

Musen Lin - Tsinghua University

Xingtuan Yang - Tsinghua University

Dingqu Wang - Tsinghua University

Junzheng Zheng - Institute Tsinghua University

Yuchen Hao - Shanghai Electro-mechanical Engineering

Institute

Songyang Li - Tsinghua University

Wentao Hao - Tsinghua University

Wei Xiong - Tsinghua University

Yueyuan Jiang - Tsinghua University

Construction and Exploration of a Diagnostic Platform for High-Temperature Gas-Cooled Reactor Units

Technical Paper Publication: ICONE31-133789

Cui Mao - Tsinghua University

Haisheng Liu - Tsinghua University

Di Geng - Tsinghua University

Yuhua Liu - Tsinghua University

Zaizhe Yin - Tsinghua University

Effect of Structure-Soil-Structure Interaction on the Seismic Response of the Nuclear Building of Small Modular Reactor

Technical Paper Publication: ICONE31-136085

Dongyang Wang - China Nuclear Power Engineering Co.,

Xiaoying Sun - China Nuclear Power Engineering Co., Ltd.

Chaoqi Zhang - China Nuclear Power Engineering Co., Ltd.

Radioactive Source Term of Lead-Bismuth SMR and the Environmental Impact

Technical Presentation Only: ICONE31-136160

Muyi Ni - Sun Yat-sen University

Wei Wang - Sun Yat-sen University

Man Jiang - Huazhong University of Science and

Technology

Yuqing Wang - Sun Yat-sen University

Yingwu Jiang - Sun Yat-sen University

Experimental Investigation on the Heat Transfer Capacity of a Prototypically Long Straight Thermosiphon Bundle for Nuclear Spent Fuel Pool Passive Cooling

Technical Paper Publication: ICONE31-136234

Sergio Iván Cáceres Castro - University of Stuttgart

Rudi Kulenovic - University of Stuttgart

Jörg Starflinger - University of Stuttgart

Analysis of the Dynamic Behaviour of a Nuclear Containment Structure Under Missile Impact

Technical Paper Publication: ICONE31-136867

Rosa Lo Frano - University of Pisa

Salvatore Angelo Cancemi - University of Pisa

Michela Angelucci - University of Pisa

Giovanni Pugliese - University of Pisa





05-05: Radiation Science and Nuclear Materials

8/8/2024 3:00PM-4:30PM - Palmovka 3

Chair: Fredrick McCrory - Sandia National Laboratories

Co-Chair: Brian Fant - Bechtel

Co-Chair: Alessandro Petruzzi - Nuclear and Industrial

Engineering

Co-Chair: Dmitry Grishchenko - KTH Royal Institute of

Technology

Co-Chair: Scott Sanborn - Sandia National Laboratories

Co-Chair: Takeshi Yamada - Hitachi-Ge Nuclear Energy,

Ltd.

Co-Chair: Tomohiko Ikegawa - Hitachi

Co-Chair: Hideki Horie - Toshiba Corp.

Co-Chair: Patrick Frias - U.S. Department of Energy

Co-Chair: Hongxing Yu - Nuclear Power Institute of China

Co-Chair: Si-chao Tan - Harbin Engineering University Co-Chair: Ronghua Chen - Xi'An Jiao Tong University

Co-Chair: Songtao Ji -

Climate Change: Overview of the Process and Methodologies Used by EDF for Taking Into Account the Effects of Climate Change in the Design of Nuclear Power

Technical Paper Publication: ICONE31-131809

Herve Cordier - EDF Amelie Joly - EDF

AWCC Simulations Based on Monte Carlo Code RMC

Technical Paper Publication: ICONE31-132066

Yuanhao Gou - Tsinghua University

Zhaoyuan Liu - Tsinghua University

Conglong Jia - Tsinghua University

Dacai Zhang - Tsinghua University

Hao Luo - Tsinghua University

Kan Wang - Tsinghua University

Conduct a Tritium Radiation Safety Assessment on the Heating System Directly Supplied by the Steam From the Secondary Loop of the High-Temperature Gas-Cooled Reactor

Technical Paper Publication: ICONE31-132181

Wenyi Wang - Tsinghua University

Chuan Li - Tsinghua University

Jianzhu Cao - Tsinghua University

Feng Xie - Tsinghua University

Hong Li - Tsinghua University

Model Development and Behavioral Characteristics of

Radionuclides in Oceanic Biota

Technical Paper Publication: ICONE31-132278

Priscilla Obeng Oforiwaa - Tsinghua University

Xiaole Zhang - Tsinghua University

Guofeng Su - Tsinghua University

Monte Carlo Simulation of Response of β-Delayed Neutron

Inspection System for Fuel Cladding Damage

Technical Paper Publication: ICONE31-134218

Weihua Zhang - Tsinghua University

Liguo Zhang - Tsinghua University

Jianzhu Cao - Tsinghua University

In Situ Measurement of the Solubility, Diffusivity, Permeability and Chemical Form of Hydrogen Isotope in

Liquid Lead-Bismuth

Technical Presentation Only: ICONE31-134387

Yingwu Jiang - Sun Yat-sen University

Jiewei Wu - Sun Yat-sen University

Fuhao Ji - Sun Yat-sen University

Junkang Yang - Sun Yat-sen University

Muyi Ni - Sun Yat-sen University



01-08: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VIII

8/8/2024 3:00PM-4:30PM - Karlin 2

Chair: Guoqiang Wang - Westinghouse Electric Co.

Co-Chair: Pascal Duranton - Framatome

Co-Chair: Yanjie Tuo - Shanghai Jiao Tong University

Co-Chair: Ze Zhu - Xi'an Jiaotong University

Intelligent Fault Diagnosis of Rotating Machinery Based on Deep Neural Network

Technical Paper Publication: ICONE31-135724

Xiuchun Zhang - Harbin Engineering University

Hong Xia - Harbin Engineering University

Yongkang Liu - China Nuclear Power Technology Research Institute Co., Ltd.

Shaomin Zhu - Harbin Engineering University

Yingying Jiang - Harbin Engineering University

Jiyu Zhang - Harbin Engineering University

Jie Liu - Suzhou Nuclear Power Research Institute Co., Ltd.

Wenzhe Yin - Harbin Engineering University

Modular Structure Selection and Design of Hualong Reactor Plant

Technical Paper Publication: ICONE31-135725

Man Xu - China Nuclear Power Engineering Co., Ltd.

Minghao Tang - China Nuclear Power Engineering Co., Ltd.

Xiaopan Jia - China Nuclear Power Engineering Co., Ltd.

Data Sharing and Business Collaboration – The Refined Management Process of Bulk Materials for Nuclear Power Projects

Technical Paper Publication: ICONE31-135764

Wang Jie - China Nuclear Power Engineering Co., Ltd.

Li Zhuoze - China Nuclear Power Engineering Co., Ltd.

Xin Yuan - China Nuclear Power Engineering Co., Ltd.

Xia Xinpei - China Nuclear Power Engineering Co., Ltd.

Zhao Yi - China Nuclear Power Engineering Co., Ltd.

Wang Sen - China Nuclear Power Engineering Co., Ltd.

Zheng Yanling - China Nuclear Power Engineering Co., Ltd.

Enhancing Nuclear Power Plant Operational Forecasting With Transformer Neural Networks: A Time-Series Data Approach

Technical Paper Publication: ICONE31-135879

Yanjie Tuo - Shanghai Jiao Tong University

Xiaojing Liu - Shanghai Jiao Tong University

Research on the Reactor Coolant Pump Fault Diagnosis Based on Typical Fault Mode Test and Deep Learning Algorithm Model

Technical Paper Publication: ICONE31-135905

Cui Huaiming - Nuclear Power Institute of China

Kuang Chengxiao - Nuclear Power Institute of China

A Control-Oriented Hybrid Model for Nuclear Reactors Based on Neural Network

Technical Paper Publication: ICONE31-135988

Ze Zhu - Xi'an Jiaotong University

Wenlong Liang - Xi'an Jiaotong University

Baiqing Ye - Xi'an Jiaotong University

Qingfeng Jiang - Xi'an Jiaotong University

Pengfei Wang - Xi'an Jiaotong University





15-14

8/8/2024 4:45PM-6:15PM - Palmovka 1

Chair: Shripad Revankar - Purdue University

Co-Chair: Vladimir Stevanovic - University of Belgrade

Co-Chair: Wolfgang Hansen - Technical University Dresden

Co-Chair: Gonzalo Jimenez - Universidad Politécnica de

Madrid

Co-Chair: Jovica Riznic - Canadian Nuclear Safety

Commission

Co-Chair: Rosa Lo Frano - University of Pisa

Co-Chair: Hitesh Bindra - Purdue University

Co-Chair: Suyuan Yu - Tsinghua University

Co-Chair: Satoshi Takeda - Osaka University

Co-Chair: Liangming Pan - Chongqing University

Co-Chair: Hui He - Shanghai Jiao Tong University

Co-Chair: Longxiang Zhu - Chongqing University

Co-Chair: Mingjun Wang - Xi'an Jiaotong University

Co-Chair: Jianjun Wang - Harbin Engineering University

Co-Chair: Ping Ye - Tsinghua University

Co-Chair: Hideharu Takahashi - NA

Evaluation of Thermal Performance for Lead Use Rods in

TPBAR

Technical Presentation Only: ICONE31-148681

Mie Azuma - Pacific Northwest National Laboratory

Nate Carstens - Pacific Northwest National Laboratory

Emily Stull - Pacific Northwest National Laboratory

Robert Gates - Pacific Northwest National Laboratory

Review of Transient Analysis and Accident Simulation Codes for Nuclear Reactor

Technical Paper Publication: ICONE31-135003

Xinze Qiu - Tsinghua University

Tao Liu - Tsinghua University

Jiejuan Tong - Tsinghua University

Liguo Zhang - Tsinghua University

Yuzeng Wu - Marine Design & Research Institute of China

Study of Gravity Effect on the Operating Characteristics of

High-Temperature Bending Heat Pipes

Technical Paper Publication: ICONE31-130470

Zhipeng Zhang - Xi'an Jiaotong University

Chenglong Wang - Xi'an Jiaotong University

Kailun Guo - Xi'an Jiaotong University

Wenxi Tian - Xi'an Jiaotong University

Guanghui Su - Xi'an Jiaotong University

Suizheng Qiu - Xi'an Jiaotong University

02-12: Structural Evaluation, Performance Assessment, Multiphysics Coupling - II

8/8/2024 4:45PM-6:15PM - Karlin 1

Chair: Hakan Ozaltun - U.S. Nuclear Regulatory

Commission

Co-Chair: Ruihan Li - Tsinghua University

Co-Chair: zhang yuanji - Lanzhou University

High-Fidelity Depletion-Pebble-Flow Coupling Simulation

of Pebble Bed Reactor HTR-PM

Technical Paper Publication: ICONE31-134641

Ruihan Li - Tsinghua University

Jingang Liang - Tsinghua University

Ding She - Tsinghua University

Weijian Zhang - Tsinghua University

Development Progress of Neutronics and Thermal Hydraulic Calculation Program NECP-Panda for Pebble-

Bed High Temperature Gas-Cooled Reactor

Technical Paper Publication: ICONE31-134649

Yuxuan Wu - Xi'an Jiaotong University

Yongping Wang - Xi'an Jiaotong University

Shuai Qin - Xi'an Jiaotong University

Liangzhi Cao - Xi'an Jiaotong University

Hongchun Wu - Xi'an Jiaotong University

Yong Luo - Huaneng Nuclear Energy Technology Research Institute



TRISO Particle Behavior Analyses of an HTR-10 Type Reactor Employing the OTTO Operation Scheme

Technical Paper Publication: ICONE31-136107

Junxiao Zhang - Harbin Engineering University

Songyang Liu - Huaneng Nuclear Energy Technology Research Institute

Junhao Xie - Harbin Engineering University

Tian Zhang - Harbin Engineering University

Hydrodynamics of High-Density Particles in a Multistage Fluidized Bed With Downcomers

Technical Paper Publication: ICONE31-133171

Yiming Zhang - China University of Petroleum-Beijing

Ying Yang - China University of Petroleum-Beijing Huan Wang - CNNC No. 7 Research and Design Institute

Co.

Shuyue Li - China University of Petroleum-Beijing

Yongmin Zhang - China University of Petroleum-Beijing

Xiuhua Wu - CNNC No. 7 Research and Design Institute Co.

Study on the Influence of Tube Wall Effect on Detection Efficiency of BF3 Counter Tube

Technical Paper Publication: ICONE31-134388

Yuanji Zhang - Lanzhou University

Zhumin Jiang - Nuclear Power Institute of China

Zhiqi Guo - Lanzhou University

Dianwei Zhou - Lanzhou University

Yunchuang Wang - Nuclear Power Institute of China

Yunli Xie - Nuclear Power Institute of China

02-15: Generic Topics and Reviews

8/8/2024 4:45PM-6:15PM - Karlin 3

Chair: Hakan Ozaltun - U.S. Nuclear Regulatory Commission

Co-Chair: Ding Chen - China Institute of Nuclear Industry Strategy

Co-Chair: Lei Shi - China Institute of Nuclear Industry Strategy

Further Study of China's Strategy for Closed Nuclear Fuel Cycle Development Against the Carbon Neutrality Target Technical Paper Publication: ICONE31-133248 Ding Chen - China Institute of Nuclear Industry Strategy Lei Shi - China Institute of Nuclear Industry Strategy

Jiqiang Su - China Institute of Nuclear Industry Strategy Yan An - China Institute of Nuclear Industry Strategy

Yihan Wang - China Institute of Nuclear Industry Strategy

Policy Study of Spent Fuel in Different Countries
Technical Paper Publication: ICONE31-135560
Lei Shi - China Institute of Nuclear Industry Strategy
Jiqiang Su - China Institute of Nuclear Industry Strategy
Ding Chen - China Institute of Nuclear Industry Strategy
Yan An - China Institute of Nuclear Industry Strategy

Research on Refueling Efficiency of Fuel Handling and Storage System in Hualong Two

Technical Presentation Only: ICONE31-136008

Hu Yue Fei - China Nuclear Power Engineering

Shi Haili - China Nulear Power Engineering

Li Xiuyuan - China Nuclear Power Engineering

Zhou Chao - China Nuclear Power Engineering

Study on the Development Path of Interim Storage for Spent Fuel in China

Technical Paper Publication: ICONE31-136022

Lei Shi - China Institute of Nuclear Industry Strategy

Haoran Lu - China Institute of Nuclear Industry Strategy

Yihan Wang - China Institute of Nuclear Industry Strategy

Jian Hu - China Institute of Nuclear Industry Strategy

Study on the Characteristics of Nuclear Fuel Industry
Technical Paper Publication: ICONE31-136048
Lei Shi - China Institute of Nuclear Industry Strategy
Yihan Wang - China Institute of Nuclear Industry Strategy
Hongjun Liu - China Institute of Nuclear Industry Strategy
Honglin Zhang - China Institute of Nuclear Industry
Strategy





#### 11-03 Core Melt Issues

8/8/2024 4:45 PM to 6:15 PM - Palmovka 2

Chair: Luteng Zhang - Chongqing University Co-Chair: Ivo Kljenak - Jozef Stefan Institute

Co-Chair: Guoqiang Wang - Westinghouse Electric Co.

Experimental Investigation on the Survival of Cooling Tube in the Molten Pool

Technical Paper Publication: ICONE31-134398

Jie Pei - China Nuclear Power Engineering Co., Ltd.

Fengyang Quan - China Nuclear Power Engineering Co.,

Wei Li - China Nuclear Power Engineering Co., Ltd.

Yidan Yuan - China Nuclear Powerr Engineering Co., Ltd.

Research on Heat Transfer Calculation of Ellipsoidal Melt Pool

Technical Paper Publication: ICONE31-134536

Peng Liu - Southeast university

Tao Zhou - Southeast University

Haolei Zhang - Southeast University

Xiaofang Liu - Southeast University

Experimental Study of the Heat Transfer Performance and the Shell Layers of the Two-Layer Stratified Melting Corium

Technical Paper Publication: ICONE31-135101

Mengyi Wang - China Nuclear Power Engineering Co., Ltd.

Fengyang Quan - China Nuclear Power Engineering Co.,

Jie Pei - China Nuclear Power Engineering Co., Ltd.

Wei Li - China Nuclear Power Engineering Co., Ltd.

Yidan Yuan - China Nuclear Power Engineering Co., Ltd.

Experimental Studies on Two-Layer Stratified Molten Pool Heat Transfer With Water and N-Octanol

Technical Paper Publication: ICONE31-136323

Fengyang Quan - China Nuclear Power Engineering Co., Ltd.

Jie Pei - China Nuclear Power Engineering Co., Ltd.

Wei Li - China Nuclear Power Engineering Co., Ltd.

Yidan Yuan - China Nuclear Power Engineering Co., Ltd.

Experimental Study on the Coolability of Molten Core Materials Discharged Into a Depth- and Volume-Limited Sodium Plenum

Technical Paper Publication: ICONE31-135809

Kenichi Matsuba - Japan Atomic Energy Agency

Shinya Kato - Japan Atomic Energy Agency

Kenji Kamiyama - Japan Atomic Energy Agency

Assan Akaev - National Nuclear Center of the Republic of Kazakhstan

Alexandr Vurim - National Nuclear Center of the Republic of Kazakhstan

Viktor Baklanov - National Nuclear Center of the Republic of Kazakhstan

04-09: SMRs, Advanced Reactors and Fusion

8/8/2024 4:45PM-6:15PM - Florenc 2

Chair: Rosa Lo Frano - University of Pisa Co-Chair: Hitesh Bindra - Purdue University

Preliminary Investigation of THFR Passive Residual Heat Removal System

Technical Paper Publication: ICONE31-133151

Yuan Huang - Tsinghua University

Wei Xu - North China Electric Power University

Heng Xie - Tsinghua University

Lei Shi - Tsinghua University

The Steady States and DLOFC Accident Analysis of HTR-PM in the OTTO Operation Scheme

Technical Paper Publication: ICONE31-133310

Songyang Liu - Huaneng Nuclear Energy Technology Research Institute

Xuelin Li - Huaneng Nuclear Energy Technology Research Institute

Yong Luo - Huaneng Nuclear Energy Technology Research Institute

Wei Liu - Huaneng Nuclear Energy Technology Research Institute

Qin Zhou - Huaneng Nuclear Energy Technology Research Institute

Cheng Gu - Huaneng Nuclear Energy Technology Research Institute

Tian Zhang - Harbin Engineering University



Study on Analytical Model of Permanent Magnet Eddy Current Retarder for High Temperature Gas-Cooled Reactor

Technical Paper Publication: ICONE31-134170

Hongyu Wu - Tsinghua University He Yan - Tsinghua University Yujie Dong - Tsinghua University

Xingzhong Diao - Tsinghua University

Research on a Very-High-Temperature Gas-Cooled Reactor-Driven Hydrogen-Electricity Cogeneration System

Technical Paper Publication: ICONE31-134847

Hang Ni - Tsinghua University Xinhe Qu - Tsinghua University Gang Zhao - Tsinghua University Jie Wang - Tsinghua University Wei Peng - Tsinghua University

Design of a He-Xe Gas-Cooled Nuclear Microreactor System Based on Detailed Models of the Cycle Components

Technical Paper Publication: ICONE31-134951 Chaoran Guan - Shanghai Jiao Tong University Xiang Chai - Shanghai Jiao Tong University Tengfei Zhang - Shanghai Jiao Tong University Xiaojing Liu - Shanghai Jiao Tong University

Effect of Air Impurities on the Characteristics of Helium Discharge at High Temperature and High Pressure Technical Paper Publication: ICONE31-135193 Chuping Yang - Tsinghua University Yinan Geng - Tsinghua University Jie Wang - Tsinghua University 08-04: Computational Fluid Dynamics (CFD) and Applications - IV

8/8/2024 4:45PM-6:15PM - Karlin 4

Chair: Yassin Hassan - Texas A&M

Co-Chair: Guoqiang Wang - Westinghouse Electric Co.
Co-Chair: Jinbiao Xiong - Shanghai Jiao Tong University
Co-Chair: Zihao Zhang - North China Electric Power

University

Co-Chair: Anxiang Ma - Tsinghua University

Numerical Simulation of Condensation-Induced Water Hammer With Dynamic Valve Control Using an Advanced Phase Change Model

Technical Paper Publication: ICONE31-134958

Danfeng Zhao - China Nuclear Power Engineering Co., Ltd.

Xiaoxia Chen - China Nuclear Power Engineering Co., Ltd. Ruiyang Tu - North China Electric Power University

Zihao Zhang - North China Electric Power University

Jiaming Zhao - China Nuclear Power Engineering Co., Ltd.

Feng Xiong - North China Electric Power University
Zhengyu Chen - North China Electric Power University
Wentao Guo - North China Electric Power University
Shengfei Wang - North China Electric Power University

Cfd Simulation of Water Hammer Induced by Condensation Using an Improved Phase Change Model Technical Paper Publication: ICONE31-134963
Li Peng - China Nuclear Power Engineering Co., Ltd.
Ruiyang Tu - North China Electric Power University
Daping Lin - China Nuclear Power Engineering Co., Ltd.
Feng Xiong - North China Electric Power University
Jiaming Zhao - China Nuclear Power Engineering Co., Ltd.
Xiaoxin Long - North China Electric Power University
Zhengyu Chen - North China Electric Power University
Zihao Zhang - North China Electric Power University
Wentao Guo - North China Electric Power University

Shengfei Wang - North China Electric Power University





Numerical Simulation of Turbulent Cross Flow Over Helical Tube Bundles With Supporting Structure

Technical Paper Publication: ICONE31-134964

Anxiang Ma - Tsinghua University

Xiaoyang Xie - Tsinghua University

Houjian Zhao - North China Electric Power University

Xiaowei Li - Tsinghua University

Xinxin Wu - Tsinghua University

Fluid-Structure Coupling Analysis of U-Type Tube Bundle in **PWR Steam Generator** 

Technical Paper Publication: ICONE31-134975

Yingying Jiang - Harbin Engineering University

Hong Xia - Harbin Engineering University

Lanxin Sun - Harbin Engineering University

Shuang Li - Harbin Turbine Company Limited

Jinming Zhang - Harbin Engineering University

Direct Numerical Simulation Study on Turbulent Flow and Heat Transfer Behavior of Helium-Xenon Gas Mixture in a Round Pipe

Technical Paper Publication: ICONE31-134985

Ruini Zhang - Nuclear Power Institute of China

Jian Deng - Nuclear Power Institute of China

Zonglan Wei - Nuclear Power Institute of China

Qi Lu - Nuclear Power Institute of China

Wenbin Han - Tsinghua University

08-08: Computational Fluid Dynamics (CFD) and Applications - VIII

8/8/2024 4:45PM-6:15PM - Liben 3

Chair: Yassin Hassan - Texas A&M

Co-Chair: Guogiang Wang - Westinghouse Electric Co.

Co-Chair: Wenxi Tian - Xi'an Jiaotong University

Co-Chair: Cheng Peng - Shanghai University of Electric

Power

Co-Chair: Liu Jing - Shanghai Jiao Tong University

Understanding the Flow Anisotropic Turbulent Flow in the Subchannel of Fuel Assembly Under Effect of the Bare Rod and Mixing Vane Grid by LES

Technical Paper Publication: ICONE31-135617

Siwei Qi - Southeast University

Bin Han - Southeast University

Tianyang Xing - Southeast University

Xiaoliang Zhu - Southeast University

Bao-Wen Yang - DEQD Institute for Advanced Research in Multiphase Flow and Energy Transfer

Yuanyuan Yin - Southeast University

Aiguo Liu - DEQD Institute for Advanced Research in

Multiphase Flow and Energy Transfer

Shenghui Liu - Southeast University

Numerical Simulation of Richtmyer-Meshkov Instability at Vapor-Liquid Interface Under Single and Double Bubbles' Conditions

Technical Paper Publication: ICONE31-135626

Helin Chen - Shanghai University of Electric Power

Cheng Peng - Shanghai University of Electric Power

Dong Li - Shanghai University of Electric Power

Jian Deng - Nuclear Power Institute of China

Impact of Tube Fouling on Steam Generator Performance Using a Thermal-Hydraulic Code

Technical Paper Publication: ICONE31-135643

Liu Jing - Shanghai Jiao Tong University

Li Zhen - Fujian Fuqing Nuclear Power Co., Ltd.

Xiong Zhenqin - Shanghai Jiao Tong University

Gao Yuan - Fujian Fuqing Nuclear Power Co., Ltd.

Lin Yuchen - Fujian Fuqing Nuclear Power Co., Ltd.

Shi Linpeng - Shanghai Jiao Tong University

Numerical Investigation on Interphase Interaction and Interplume Effects of Multi-Hole Steam Injection Condensation Based on ADS 1-3

Technical Paper Publication: ICONE31-135676

Jibin Xu - North China Electric Power University

Hao Zheng - China Nuclear Power Engineering Co., Ltd.

Xihao Shen - North China Electric Power University

Yuhao Zhang - North China Electric Power University

Daogang Lu - North China Electric Power University





Investigation of the Heat Transfer Properties of Natural Circulation Flow in the Irradiation Channel of the HFETR

Technical Paper Publication: ICONE31-135738

Shuai Jin - Nuclear Power Institute of China

Sheng Sun - Nuclear Power Institute of China

Wenhua Yang - Nuclear Power Institute of China

Junping Si - Nuclear Power Institute of China

Yixing Xu - Nuclear Power Institute of China

Jin Lei - Nuclear Power Institute of China

The Influences of Key Factors on the Gas Diffusion in the Material Irradiation Tests Based on the Regulation of Gas Composition

Technical Paper Publication: ICONE31-135739

Yixiong Sun - Nuclear Power Institute of China

Wenhua Yang - Nuclear Power Institute of China

Sheng Sun - Nuclear Power Institute of China

Liang Zhang - Nuclear Power Institute of China

Wenbin Zhao - Nuclear Power Institute of China

Shuai Jin - Nuclear Power Institute of China

Jin Lei - Nuclear Power Institute of China

Jinkang Cheng - Nuclear Power Institute of China

01-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX

8/8/2024 4:45 PM to 6:15 PM - Karlin 2

Chair: Guogiang Wang - Westinghouse Electric Co.

Co-Chair: Pascal Duranton - Framatome

Co-Chair: Antony Hurst - Engineering Analysis Services

Limited

Co-Chair: Martin Kykal - ES Group Europe s.r.o.

Research on Energy-Saving Operation Optimization of Circulating Water System Under CHP of Nuclear Energy

Comprehensive Utilization

Technical Paper Publication: ICONE31-136033

Fang Wu - SPIC Nuclear Energy Co. Ltd.

Te Tang - Shanghai Nuclear Engineering Research & Design Institute Co. Ltd.

Weili Liu - SPIC Nuclear Energy Co. Ltd.

Yingnan Li - SPIC Nuclear Energy Co. Ltd.

Xinzhuang Wu - Shanghai Nuclear Engineering Research & Design Institute Co. Ltd.

Experiment and Simulation Analysis for Performance of Squat Shear Wall in Nuclear Island

Technical Paper Publication: ICONE31-136045

Shaojie Wang - China Nuclear Power Engineering Co., Ltd.

Dongmei Wang - China Nuclear Power Engineering Co.,

Ltd.

Yumin Li - China Nuclear Power Engineering Co., Ltd.

Development of Requirements for Demonstrating Structural Integrity of the Highest Reliability Components

Technical Paper Publication: ICONE31-136097

Antony Hurst - EASL, A Division of Kinectrics

Louis Chang - EASL, A Division of Kinectrics

Mike Nielsen - EASL, A Division of Kinectrics

Sam Holcroft - EASL, A Division of Kinectrics

NPP Modification Opportunity by Hydrogen Technologies Implementation: Assessment in Frame of the Euratom Project NPHyCo

Technical Paper Publication: ICONE31-136129

Martin Kykal - ES Group Europe s.r.o.

Oleksandr Mazurok - ES Group LLC

Martin Glueckler - Framatome GmbH

Cecilia Herrero Moriana - Tecnatom

Canet Serin - Framatome GmbH

Vasyl Korolchuk - ES Group LLC

A Study of Vortex Shadding Acts on Steel Vent Stack Based on Eu Standards

Technical Paper Publication: ICONE31-136166

Liu Yuanda - China Nuclear Power Engineering Co., Ltd.

Wu Xiting - China Nuclear Power Engineering Co., Ltd.

Tang Minghao - China Nuclear Power Engineering Co., Ltd.

Progress in Isolation Analysis and Experimental Research of HPR1000 Nuclear Island Plant

Technical Paper Publication: ICONE31-136330

Chencheng Shi - China Nuclear Power Engineering Co., Ltd.

Jian Chen - China Nuclear Power Engineering Co., Ltd.; Tsinghua University

Xiaoying Sun - China Nuclear Power Engineering Co., Ltd.

Xiaoyi Yang - China Nuclear Power Engineering Co., Ltd.

Hehuan Ren - China Nuclear Power Engineering Co., Ltd.



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Coffee and tea will be served amongst the exhibits during the coffee breaks.

#### **Dates & Times:**

Monday, August 5 10:00AM-8:00PM Tuesday, August 6 10:00AM-4:00PM Wednesday, August 7 10:00AM-4:00PM Thursday, August 8 9:30AM-3:00PM

Location: Congress Hall Foyer, Lower Level

#### **Exhibitors:**

China Nuclear Power Engineering



### Thank you to our volunteers

The Nuclear Engineering Division recognizes the following individuals for their contributions in arranging the technical program, reviewing abstracts, organizing technical tracks and sessions, and working with colleagues from around the world. These contributions were major factors in the success of ICONE31.





#### **Paper Reviewers Recognition**

The Nuclear Engineering Division recognizes the following paper reviewers for their outstanding contribution to the technical program and ICONE series of International Conferences on Nuclear Engineering.

#### Δ

Daniel Abuda Imran Afgan **Zayed Ahmed** Naoto Aizawa Ketan Ajay Ayodeji Ala Miltos Alamaniotis Saeed Alameri Malek Albadarneh Majid Ali Hiba Al-Khodire Michela Angelucci Asif Arastu Sofía Arfinengo del Carpio Benjamin Arnold Kazuhito Asano Hamza Ayyash Mie Azuma

#### В

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Liu Wei
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Jiming Wen
Graham Wilson
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### **Track Chair Recognition**

Track	Track Chair(s)	ASME Co-Chair(s)	JSME Track Chair/ Co-Chair(s)	CNS Track Chair/ Co-Chair(s)
<ol> <li>Nuclear Plant Operation &amp; Maintenance, Engineering and Modification, Operation Life Extension (OLE), and Life Cycle</li> </ol>	Duranton Pascal	William A. Byers Bob Stakenborghs Wajih Hamouda Duranton Pascal	Koji Yamada Yukinori Hirose Ryo Morita	Yawei MAO Weihua ZHA Minjun PENG Chao TAN Xianfeng MA
<b>2</b> — Nuclear Fuel and Material, Reactor Physics and Transport Theory and Fuel Cycle Technology	Hakan Ozaltun	Andrew Prudil Radek Skoda Justin Spencer Paul Chan Bob Oelrich Wenzhong Zhou Gillespie Paul Ali Zbib	Daisuke Sato Keita Watanabe Yuichiro Kubo Satoshi Takeda	Min XIAO Liangzhi CAO Wenbo LIU Ke SHEN Daoxi CHENG Chen HAO
<b>3</b> — I&C, Digital Control, and Influence of Human Factors	Brian Fant	Stylianos Chatzdakis Mauro Cappelli Goran Simeunovic Miltos Alamaniotis Damien Feronm Samir Darbali	Tatsuto Sugiura Akio Gofuku	Yongbin SUN Shuhui ZHANG Quan MA Wei ZHENG Hong XIA
<b>4</b> — SMRs, Advanced Reactors and Fusion	Rosa lo Frano	lvan Otic Glenn Harvel Jovica Riznic Prashant Jain Hitesh Bindra	Rei Kimura Hiroyuki Sato Hiroo Kondo Kazuhiro Kamei Takashi Hirano	Danrong SONG Wei PENG Dalin ZHANG Jinggang QIN Min XU
<b>5</b> — Nuclear Safety, Security, and Cyber Security	Mitch McCrory	Dmitry Grishchenko Patrick Frias Alessandro Petruzzi Scott Sanborn	Takeshi Yamada Tomohiko Ikegawa Hideki Horie	Sichao TAN Ronghura CHEN Hongxing YU Songtao JI
<b>6</b> — Nuclear Codes, Standards, Licensing, & Regulatory Issues	Tom Vogan	Clayton Smith Mathew Panicker Dale Matthews Alex Poitras	Koji Yamada Makoto Nakajima Yasushi Saito	Lin TIAN Ruilin DONG Xiaodong HUO Jianqiang SHAN Xinfu HE
<b>7</b> — Thermal-Hydraulics and Safety Analysis	Guoqiang Wang	Shripad T. Revankar Yassin Hassan Asif Arastu Qingzi Zhu Baowen Yang Gonzalo Jimenez Jun Liao Afaque Shams Anas Alwafi Kurshad Muftuoglu	Wei Liu Chikako lwaki Tomio Okawa Yoshiyuki Kondo Daisuke Ito	Yingwei WU Yao XIAO Jianjun XU Di ZHANG Haifeng GU





8 — Computational Fluid Dynamics (CFD) and Applications	Yassin Hassan	Prashant Jain Elia Merzari Sofiane Benhama- douche Yacine Addad Milorad Dzodzo Mie Azuma Yan Bartosiewitcz Vasilii Volkov Afaque Shams Anas Alwafi	Kei Ito Hiroyuki Yoshida Yasuo Hattori	Wenxi TIAN Jinbiao XIONG Ruifeng TIAN Jian WU Wenxing LIU
<b>9</b> — Decontamination & Decommissioning, Radiation Protection, & Waste Management	Anthony Hecha- nova	Benjamin P Parruzot Emmanuel Porcheron Benjamin Maier Rosa lo Frano Massimo Sepielli Patricia Paviet Yitung Chen Iuliia Ipatova	Daisuke Kawasaki Taro Shimada	Tao DUAN Kui ZHANG Weiqun SHI Bin LIU
<b>10</b> — Advanced Methods of Manufacturing for Nuclear Reactors and Components	Asif Arastu	Guoqiang Wang Antony M Hurst Miltos Alamaniotis Emre Tatli	Yasuhiro Ishijima Shinobu Okido Yoshinori Katayama Akemi Nishida	Ting JIN WanSUN Gaihuan YUAN
<b>11</b> — Severe Accidents and Mitigation Strategies for Beyond Design Basis Events	Ivo Kljenak	Alexei Miassoedov Pavlo Kudinov	Masahiro Ishigaki Tadashi Watanabe Chiaki Kino Toshinori Matsu- moto	Yidan YUAN Yapei ZHANG Jian DENG Luteng ZHANG Xuefeng LV
12 — Risk Assessments and Management	Arun Veeramany	Zhegang Ma Anton Prins Mahesh Pandey Xianxun (Arnold) Yuan Ivan Vrbanic Jaroslav Holý	Hidemasa Yamano Yoshihisa Nishi	Tao YU Wei DENG He WANG Xinli YU
<b>13</b> — Computer Code Verification and Validation	Richard Schultz	Yassin Hassan Milorad Dzodzo Alessandro Petruzzi Sam Treasure Josh Kaiser	Masaaki Tanaka Kotaro Nakada	Hongchun WU Ting WANG Hui YU Ming DING Yanhua YANG
<b>14</b> — Nuclear Education and Public Acceptance	Leon Cizelj	Yassin Hassan Asif Arastu Rosa lo Frano	Hiroshige Kikura Hideharu Takahashi	Yongmei WANG Kan WANG Puzhen GAO Wei WANG
15 — Student Paper Competition	Shripad Revankar	Vladimir Stevanovic Wolfgang Hansen Gonzalo Jimenez Jovica Riznic Rosa lo Frano Hitesh Bindra	Satoshi Takeda Hideharu Takahashi	Suyuan YU Liangming PAN Hui HE Longxiang ZHU Mingjun WANG Jianjun WANG Ping YE



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Deyang	Gao	07-10: Simulations and Predictions - II	134821	8/8/2024	3:00PM-4:30PM	3	98
	Gao		135091	8/5/2024	4:45PM-6:15PM	4	40
Jiarong Jiaxuan	Gao	05-03: Digitalization and Fault Detection	135370	8/6/2024	1:00PM=2:30PM	2	46
-		11-01 Severe Accident Mitigation Strategies	135353	8/8/2024		4	93
Wenxiu	Gao	04-14: SMRs, Advanced Reactors, and Fusion		8/6/2024	10:30AM-12:00PM	2	50
Zhibo	Gao	15-08	135196		5:00PM-6:30PM	5	
Xuyao	Geng	04-04: SMRs, Advanced Reactors, and Fusion	133388	8/7/2024	3:00PM-4:30PM	-	69
Xuyao	Geng	07-22: Thermal-Hydraulics Research and Applications - III	135619	8/5/2024	1:00PM-2:30PM	1	19
Yiwa	Geng	07-04: Experiments and Analyses - III	135143	8/6/2024	5:00PM-6:30PM	1	52
Yiwa	Geng	07-15: Single and Multi-Phase Flow - II	135702	8/7/2024	3:00PM-4:30PM	2	67
Menghang	Gong	08-03: Computational Fluid Dynamics (CFD) and Applications - III	134632	8/5/2024	4:45PM-6:15PM	0	38
Yuanhao	Gou	05-05: Radiation Science and Nuclear Materials	132066	8/8/2024	3:00PM-4:30PM	1	104
Chaoran	Guan	04-09: SMRs, Advanced Reactors, and Fusion	134951	8/8/2024	4:45PM-6:15PM	4	109
Minyang	Gui	07-13: SMR and Advanced Reactors - II	136580	8/7/2024	4:45PM-6:15PM	5	74
Chao	Guo	03-03: Reliability and Safety Systems	135387	8/7/2024	8:30AM-10:00AM	1	62
Haoxuan	Guo	13-02: Computer Code V&V - II	134868	8/6/2024	5:00PM-6:30PM	2	57
Jian	Guo	13-01: Computer Code V&V - I	134175	8/6/2024	1:00PM-2:30PM	1	49
Jingni	Guo	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV	134482	8/8/2024	3:00PM-4:30PM	2	
Kailun	Guo	04-07: SMRs, Advanced Reactors, and Fusion	137029	8/8/2024	10:30AM-12:00PM	5	90
Lin	Guo	02-13: Structural Evaluation, Performance Assessment, Multiphysics Coupling - III	136183	8/8/2024	10:30AM-12:00PM	3	92
Pengya	Guo	07-06: Experiments and Analyses - V	135932	8/6/2024	5:00PM-6:30PM	1	52
Shujie	Guo	12-03 Risk Assessments and Management - Session 3	135680	8/7/2024	8:30AM-10:00AM	5	64
Yinan	Guo	04-05: SMRs, Advanced Reactors, and Fusion	135657	8/7/2024	4:45PM-6:15PM	3	78
Izabela	Gutowska	04-01: SMRs, Advanced Reactors, and Fusion	135989	8/5/2024	1:00PM-2:30PM	5	23
Ossama	Halim	08-09: Computational Fluid Dynamics (CFD) and Applications - IX	136113	8/8/2024	8:30AM-10:00AM	5	87
Jasmine	Hamelberg	15-03	133273	8/5/2024	4:45PM-6:15PM	0	33
Bin	Han	08-08: Computational Fluid Dynamics (CFD) and Applications - VIII	135617	8/8/2024	4:45PM-6:15PM	0	110
Bin	Han	04-10: SMRs, Advanced Reactors and Fusion	135935	8/7/2024	3:00PM-4:30PM	0	69
Huchen	Han	07-07: Experiments and Analyses - VI	135743	8/7/2024	8:30AM-10:00AM	2	61
Wenbin	Han	04-06: SMRs. Advanced Reactors, and Fusion	135237	8/8/2024	8:30AM-10:00AM	1	81
	Han		135644	8/8/2024	8:30AM-10:00AM	0	84
Yansong		04-12: SMRs, Advanced Reactors, and Fusion	136054	8/8/2024		4	101
Dong	Hao	04-08: SMRs, Advanced Reactors, and Fusion			3:00PM-4:30PM	5	
Shuai	Hao	07-12: SMR and Advanced Reactors - I	134626	8/7/2024	3:00PM-4:30PM	-	65
Yuchen	Hao	09-02: Waste Packages and Monitoring	132843	8/5/2024	3:00PM-4:30PM	0	28
Shuijun	He	09-07: Radiation and Physical Transport Studies	135811	8/6/2024	1:00PM-2:30PM	2	45
Shuijun	He	09-07: Radiation and Physical Transport Studies	135873	8/6/2024	1:00PM-2:30PM	3	45
Sixuan	He	06-02 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2	135159	8/5/2024	3:00PM-4:30PM	3	27
Wen	He	07-20: Thermal-Hydraulics Research and Applications - I	131958	8/8/2024	10:30AM-12:00PM	1	91
Xiaoqiang	He	07-05: Experiments and Analyses - IV	135529	8/7/2024	8:30AM-10:00AM	3	61
Kiminobu	Hojo	06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3	136517	8/5/2024	4:45PM-6:15PM	3	34
Zhang	Hongjian	02-10: Physics and Transport Theory - II	132764	8/8/2024	10:30AM-12:00PM	5	92
Shigeo	Hosokawa	07-07: Experiments and Analyses - VI	136714	8/7/2024	8:30AM-10:00AM	3	61
Guang	Hu	09-06: Waste Management and Environmental Studies	135796	8/5/2024	4:45PM-6:15PM	3	36
Hao	Hu	09-02: Waste Packages and Monitoring	135542	8/5/2024	3:00PM-4:30PM	4	28
Jifeng	Hu	09-05: Radiation Protection and Dose Assessment	134809	8/5/2024	3:00PM-4:30PM	2	29
Jipu	Hu	04-04: SMRs, Advanced Reactors, and Fusion	124442	8/7/2024	3:00PM-4:30PM	4	69
Po	Hu	04-07: SMRs, Advanced Reactors and Fusion	136201	8/8/2024	10:30AM-12:00PM	3	89
Yingzhe	Hu	02-08: Methods Development, Computational Approaches - II	134556	8/7/2024	4:45PM-6:15PM	3	76
Canxing	Huang	03-04: Advanced Control Strategies	136013	8/7/2024	3:00PM-4:30PM	3	68
Haochen	Huang	13-02: Computer Code V&V - II	135154	8/6/2024	5:00PM-6:30PM	4	57
Jinfeng	Huang	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV	135355	8/8/2024	3:00PM-4:30PM	1	100
Ruolin	Huang	07-21: Thermal-Hydraulics Research and Applications - II	134892	8/8/2024	3:00PM-4:30PM	2	28
Tianyi	Huang	08-07: Computational Fluid Dynamics (CFD) and Applications - VII	135458	8/8/2024	3:00PM-4:30PM	0	102
Yuan	Huang	04-05: SMRs. Advanced Reactors, and Fusion	133151	8/7/2024	4:45PM-6:15PM	0	108
Yufan	Huang	07-09: Simulations and Predictions - I	134301	8/8/2024	10:30AM-12:00PM	1	90
Yufei	Huang	09-05: Radiation Protection and Dose Assessment	134891	8/5/2024	3:00PM-4:30PM	o O	29
Yuhang	Huang	13-02: Computer Code V&V - II	134823	8/6/2024	5:00PM-6:30PM	1	57
Yuji	Huang	02-02: Nuclear Fuels and Materials – II	134560	8/5/2024	3:00PM-4:30PM	2	29
Antony	Hurst	01-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX	136097	8/8/2024	4:45PM-6:15PM	2	111
Yasuhiro	Ishijima	02-02: Nuclear Fuels and Materials – II	132312	8/5/2024	3:00PM-4:30PM	0	29
Yoshihiro	Ishikawa	07-21: Thermal-Hydraulics Research and Applications - II	134643	8/8/2024	3:00PM-4:30PM	0	99
Yoshihiro	Ishikawa	07-06: Experiments and Analyses - V	136295	8/6/2024	5:00PM-6:30PM	4	53
Yuta		09-07: Radiation and Physical Transport Studies	135877	8/6/2024	1:00PM-2:30PM	4	45
	Isobe		135202	8/8/2024	8:30AM-10:00AM	2	89
Young Sun Stepan	Jang Jedlan	01-06: Nuclear Plant Operation, Modification, Life Extension, Maintenance and Life Cycle - VI 15-02	133131	8/5/2024	3:00PM-4:30PM	1	25
	-	15-10	135489	8/6/2024	1:00PM-2:30PM	2	43
Chengzuo	Ji ii	11-02 Severe Accident Mitigation Phenomena	134969	8/6/2024	5:00PM-6:30PM	3	54
Yongan	Ji ''-	07-18: Accident Analyses	130093	8/7/2024	4:45PM-6:15PM	0	75
Ningxi	Jia						97
Zhujun	Jia Jiang	01-07: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VII	135447 134838	8/8/2024	10:30AM-12:00PM	4 1	99
Hongwei	Jiang	07-21: Thermal-Hydraulics Research and Applications - II		8/8/2024	3:00PM-4:30PM	1	99 82
Jinghua	Jiang	07-08: Numerical Analyses	136244	8/8/2024	8:30AM-10:00AM		
Man	Jiang	05-06: Optimization and Modeling Methods	136167	8/7/2024	3:00PM-4:30PM	5	71
Shunli	Jiang	07-04: Experiments and Analyses - III	135210	8/6/2024	5:00PM-6:30PM	3	52
Yingwu	Jiang	05-05: Radiation Science and Nuclear Materials	134387	8/8/2024	3:00PM-4:30PM	5	104
Yingying	Jiang	08-04: Computational Fluid Dynamics (CFD) and Applications - IV	134975	8/8/2024	4:45PM-6:15PM	3	110
Zhuojun	Jiang	08-06: Computational Fluid Dynamics (CFD) and Applications - VI	135359	8/8/2024	10:30AM-12:00PM	1	94
Guanghui	Jiao	04-07: SMRs, Advanced Reactors, and Fusion	133432	8/8/2024	10:30AM-12:00PM	0	89
Wang	Jie	01-08: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VIII	135764	8/8/2024	3:00PM-4:30PM	2	105
Antonio	Jiménez-Carrascosa	04-03: SMRs, Advanced Reactors, and Fusion	133069	8/5/2024	4:45PM-6:15PM	3	38
Shuai	Jin	08-08: Computational Fluid Dynamics (CFD) and Applications - VIII	135738	8/8/2024	4:45PM-6:15PM	4	111
Furu	Jing	01-06: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VI	135134	8/8/2024	8:30AM-10:00AM	0	88
Liu	Jing	08-08: Computational Fluid Dynamics (CFD) and Applications - VIII	135643	8/8/2024	4:45PM-6:15PM	2	110
Ruihan	Jing	08-05: Computational Fluid Dynamics (CFD) and Applications - V	135038	8/8/2024	8:30AM-10:00AM	0	86
Han Young	Joo	14-01: Nuclear Education and Public Acceptance	147520	8/6/2024	1:00PM-2:30PM	2	41
Pilhyeon		15-13	135808	8/6/2024	1:00PM-2:30PM	2	44
	Ju	13 13		0/0/2024			
Wen	Junlong	15-05	134313	8/6/2024	5:00PM-6:30PM	0	49





Ruiqi Zuoyi						_	
	Kang	07-05: Experiments and Analyses - IV	135520	8/7/2024	8:30AM-10:00AM	2	60
	Kang	10-03: Advanced Manufacturing 3	135948	8/5/2024	4:45PM-6:15PM	1	34
Mehmet	Kavalci	15-11	135875	8/6/2024	5:00PM-6:30PM	4	119
Yasuhiro	Kawahara	07-05: Experiments and Analyses - IV	135455	8/7/2024	8:30AM-10:00AM	1	60
Ikhwan	Khaleb	08-02: Computational Fluid Dynamics (CFD) and Applications - II	134475	8/5/2024	3:00PM-4:30PM	1	32
Ilyas	Khurshid	07-22: Thermal-Hydraulics Research and Applications - III	136086	8/5/2024	1:00PM-2:30PM	3	19
Wararu	Kikuchi	08-09: Computational Fluid Dynamics (CFD) and Applications - IX	135902	8/8/2024	8:30AM-10:00AM	3	87
Hyun-Jung	Kim	02-11: Structural Evaluation, Performance Assessment, Multiphysics Coupling - I	132740	8/8/2024	3:00PM-4:30PM	4	100
Yoneda	Kimitoshi	12-01 Risk Assessments and Management - Session 1	131637	8/6/2024	1:00PM-2:30PM	3	48
Norikazu	Kinoshita	09-01: Waste Treatment and Decontamination	131634	8/5/2024	1:00PM-2:30PM	1	20
						1	
Keito	Kitagawa	15-07	134933	8/6/2024	1:00PM-2:30PM	1	42
Hideharu	Kobayashi	09-03: Decommissioning	135887	8/5/2024	4:45PM-6:15PM	1	36
Yuya	Kodua	09-03: Decommissioning	135953	8/5/2024	4:45PM-6:15PM	2	36
Takeshi	Koike	04-08: SMRs, Advanced Reactors, and Fusion	135017	8/8/2024	3:00PM-4:30PM	0	101
Deyan	Kong	12-01 Risk Assessments and Management - Session 1	131992	8/6/2024	1:00PM-2:30PM	0	48
,				8/8/2024	10:30AM-12:00PM	0	95
Tomas	Korinek	08-10: Computational Fluid Dynamics (CFD) and Applications - X	136127			-	
Chengxiao	Kuang	01-08: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VIII	135905	8/8/2024	3:00PM-4:30PM	4	105
Tomasz	Kwiatkowski	08-11: Computational Fluid Dynamics (CFD) and Applications - XI	136058	8/8/2024	10:30AM-12:00PM	4	96
Martin	Kykal	01-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX	136129	8/8/2024	4:45PM-6:15PM	3	111
Ondřej	Lachout	15-12	136104	8/7/2024	8:30AM-10:00AM	0	59
Guihua	Lai	04-11: SMRs, Advanced Reactors, and Fusion	135206	8/7/2024	4:45PM-6:15PM	2	78
Haehyun	Lee	06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3	136158	8/5/2024	4:45PM-6:15PM	2	34
						3	96
Haein	Lee	08-11: Computational Fluid Dynamics (CFD) and Applications - XI	135693	8/8/2024	10:30AM-12:00PM	-	
Jinlin	Lee	03-05: Innovations in Nuclear Engineering	134913	8/7/2024	4:45PM-6:15PM	1	77
Yi-Kang	Lee	13-02: Computer Code V&V - II	135213	8/6/2024	5:00PM-6:30PM	5	57
Youho	Lee	09-05: Radiation Protection and Dose Assessment	137567	8/5/2024	3:00PM-4:30PM	4	29
Boyuan	Li	12-03 Risk Assessments and Management - Session 3	135382	8/7/2024	8:30AM-10:00AM	4	64
Dong	li .	08-01: Computational Fluid Dynamics (CFD) and Applications - I	133282	8/5/2024	1:00PM-2:30PM	1	23
	li .					2	25
Fuhai	-	01-01: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - I	131787	8/5/2024	1:00PM-2:30PM	_	
Fuhai	Li	01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III	133448	8/5/2024	4:45PM-6:15PM	1	40
Hui	Li	15-05	134381	8/6/2024	5:00PM-6:30PM	2	50
Jiajie	Li	07-11: Simulations and Predictions - III	135126	8/8/2024	3:00PM-4:30PM	1	98
Jiaming	Li	08-01: Computational Fluid Dynamics (CFD) and Applications - I	133597	8/5/2024	1:00PM-2:30PM	3	23
Jian	li .	02-06: Fabrication, Fuel Cycle, Shielding, Storage - II	135558	8/7/2024	8:30AM-10:00AM	2	62
-	-				4:45PM=6:15PM	_	
Jian	Li	07-18: Accident Analyses	135804	8/7/2024		4	76
Jiangkuan	Li	05-03: Digitalization and Fault Detection	132186	8/5/2024	4:45PM-6:15PM	0	39
Jiaxuan	Li	02-01: Nuclear Fuels and Materials - I	137055	8/5/2024	1:00PM-2:30PM	5	22
Jinpeng	Li	04-10: SMRs, Advanced Reactors, and Fusion	133881	8/7/2024	3:00PM-4:30PM	3	70
litao	Li.	01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance and Life Cycle - III	134670	8/5/2024	4:45PM-6:15PM	4	40
-	li .		134769	8/7/2024	4:45PM-6:15PM	0	79
Jitao	-	05-07: System Performance and Safety Enhancements				-	
Liangxing	Li	11-02 Severe Accident Mitigation Phenomena	136038	8/6/2024	5:00PM-6:30PM	1	54
Linfeng	Li	12-04 Risk Assessments and Management - Session 4	136531	8/8/2024	8:30AM-10:00AM	4	88
Ruihan	Li	02-12: Structural Evaluation, Performance Assessment, Multiphysics Coupling - II	134641	8/8/2024	4:45PM-6:15PM	0	106
Shu	Ti.	07-16: Heat Transfer - I	134787	8/7/2024	4:45PM-6:15PM	5	74
Shunyang	li .	08-10: Computational Fluid Dynamics (CFD) and Applications - X	136142	8/8/2024	10:30AM-12:00PM	1	95
, ,	li .		135097	8/5/2024	4:45PM-6:15PM	4	35
Tao	-	07-03: Experiments and Analyses - II					
Tianjin	Li	04-13: SMRs, Advanced Reactors, and Fusion	135598	8/8/2024	8:30AM-10:00AM	4	85
Xiaoxi	Li	08-03: Computational Fluid Dynamics (CFD) and Applications - III	134953	8/5/2024	4:45PM-6:15PM	4	39
Xin	Li	09-07: Radiation and physical transport studies	135557	8/6/2024	1:00PM-2:30PM	1	45
Xinyu	li	04-05: SMRs, Advanced Reactors, and Fusion	134369	8/7/2024	4:45PM-6:15PM	5	78
Xinze	li .	15-01	134501	8/5/2024	1:00PM-2:30PM	5	18
	li .		130895	8/5/2024	4:45PM-6:15PM	1	38
Yanlin	-	04-03: SMRs, Advanced Reactors, and Fusion					
Yanzhi	Li	07-19: Entrainment and Droplet Characteristics	134534	8/8/2024	8:30AM-10:00AM	1	83
Yingnan	Li	06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3	136091	8/5/2024	4:45PM-6:15PM	1	34
Zefeng	Li	15-07	134981	8/6/2024	1:00PM-2:30PM	3	42
Zhigang	Li	07-22: Thermal-Hydraulics Research and Applications - III	124037	8/5/2024	1:00PM-2:30PM	5	20
Zongyang	Li	07-14: Single and Multi-Phase Flow - I	131786	8/7/2024	3:00PM-4:30PM	2	66
Zhang	Liangijo	03.11: Structural Evaluation, Performance Accomment, Multiphysics Coupling, 1	120062	0/0/2024	2:00DM 4:20DM	1	
	Liangjie	02-11: Structural Evaluation, Performance Assessment, Multiphysics Coupling - I	135863	8/8/2024	3:00PM-4:30PM	1	100
Hengji	Liao	08-03: Computational Fluid Dynamics (CFD) and Applications - III	134856	8/5/2024	4:45PM-6:15PM	3	39
Hengji Ting Yi			134856 135819	8/5/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM	3	39 34
	Liao	08-03: Computational Fluid Dynamics (CFD) and Applications - III	134856	8/5/2024	4:45PM-6:15PM	3	39
Ting Yi	Liao Liao	88-03: Computational Fluid Dynamics (CFD) and Applications - III     06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3     5-04: Nuclear Engineering and Safety Analysis	134856 135819	8/5/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 3:00PM-4:30PM	3	39 34 103
Ting Yi Musen Shixin	Liao Liao Lin Lin	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III	134856 135819 132757 134554	8/5/2024 8/5/2024 8/8/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM	3 0 0	39 34 103 37
Ting Yi Musen Shixin Xuan	Liao Liao Lin Lin Lin	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Liensings, 8. Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion	134856 135819 132757 134554 131854	8/5/2024 8/5/2024 8/8/2024 8/5/2024 8/8/2024	4:45PM-6:15PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM	3 0 0 3 4	39 34 103 37 82
Ting Yi Musen Shixin Xuan Dalian	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III     06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3     05-04: Nuclear Engineering and Safety Analysis     02-03: Nuclear Fuels and Materials - III     04-06: SMRs, Advanced Reactors, and Fusion     03-02: Human Factors and Digitization	134856 135819 132757 134554 131854 134638	8/5/2024 8/5/2024 8/8/2024 8/5/2024 8/8/2024 8/6/2024	4:45PM-6:15PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM 5:00PM-6:30PM	3 0 0 3 4	39 34 103 37 82 55
Ting Yi Musen Shixin Xuan Dalian Dalin	Liao Liao Lin Lin Liu Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2	134856 135819 132757 134554 131854 134638 134510	8/5/2024 8/5/2024 8/8/2024 8/5/2024 8/8/2024 8/6/2024 8/6/2024	4:45PM-6:15PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM 5:00PM-6:30PM 5:00PM-6:30PM	3 0 0 3 4 0	39 34 103 37 82 55 56
Ting Yi Musen Shixin Xuan Dalian Dalin Guanyu	Liao Liao Lin Lin Liu Liu Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRS, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02: Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment	134856 135819 132757 134554 131854 134638 134510 135100	8/5/2024 8/5/2024 8/8/2024 8/5/2024 8/8/2024 8/6/2024 8/6/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM 5:00PM-6:30PM 5:00PM-6:30PM 1:00PM-2:30PM	3 0 0 3 4 0 5	39 34 103 37 82 55 56 24
Ting Yi Musen Shixin Xuan Dalian Dalin	Liao Liao Lin Lin Liu Liu Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2	134856 135819 132757 134554 131854 134638 134510 135100 131755	8/5/2024 8/5/2024 8/8/2024 8/5/2024 8/8/2024 8/6/2024 8/6/2024 8/5/2024 8/7/2024	4:45PM-6:15PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM 5:00PM-6:30PM 5:00PM-6:30PM 1:00PM-2:30PM 3:00PM-4:30PM	3 0 0 3 4 0 5 3	39 34 103 37 82 55 56 24 66
Ting Yi Musen Shixin Xuan Dalian Dalin Guanyu	Liao Liao Lin Lin Liu Liu Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRS, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02: Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment	134856 135819 132757 134554 131854 134638 134510 135100	8/5/2024 8/5/2024 8/8/2024 8/5/2024 8/8/2024 8/6/2024 8/6/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM 5:00PM-6:30PM 5:00PM-6:30PM 1:00PM-2:30PM	3 0 0 3 4 0 5	39 34 103 37 82 55 56 24 66 28
Ting Yi Musen Shixin Xuan Dalian Dalin Guanyu Haidong Jiabao	Liao Liao Lin Lin Liu Liu Liu Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Flusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I	134856 135819 132757 134554 131854 134638 134510 135100 131755 133818	8/5/2024 8/5/2024 8/8/2024 8/5/2024 8/8/2024 8/6/2024 8/6/2024 8/5/2024 8/7/2024	4:45PM-6:15PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM 5:00PM-6:30PM 1:00PM-6:30PM 1:00PM-2:30PM 3:00PM-4:30PM 3:00PM-4:30PM	3 0 0 3 4 0 5 3	39 34 103 37 82 55 56 24 66 28
Ting Yi Musen Shixin Xuan Dalian Dalin Guanyu Haidong	Liao Liao Lin Lin Lin Liu Liu Liu Liu Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safrey Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabilistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV	134856 135819 132757 134554 131854 134638 134510 135100 131755 133818 134882	8/5/2024 8/5/2024 8/8/2024 8/8/2024 8/8/2024 8/6/2024 8/6/2024 8/5/2024 8/7/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM 5:00PM-6:30PM 1:00PM-2:30PM 3:00PM-4:30PM 3:00PM-4:30PM 3:00PM-4:30PM	3 0 0 3 4 0 5 3 1	39 34 103 37 82 55 56 24 66 28 72
Ting Yi Musen Shixin Xuan Dallian Guanyu Haidong Jiabao Jie Kexin	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licnening, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III	134856 135819 132757 134554 131854 134638 134510 135100 131755 133818 134882 134729	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/5/2024 8/7/2024 8/7/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM 8:30AM-10:00AM 5:00PM-6:30PM 1:00PM-2:30PM 3:00PM-3:30PM 3:00PM-4:30PM 3:00PM-4:30PM 4:50PM-4:50PM 4:50PM-4:50PM	3 0 0 3 4 0 5 3 1 1 3 4	39 34 103 37 82 55 56 24 66 28 72 39
Ting Yi Musen Shixin Xuan Dalian Guanyu Haidong Jiabao Jie Kexin Limin	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02: Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion	134856 135819 132757 134554 131854 134638 134510 135100 131755 133818 13482 134729 136516	8/5/2024 8/5/2024 8/8/2024 8/8/2024 8/6/2024 8/6/2024 8/5/2024 8/5/2024 8/7/2024 8/5/2024 8/5/2024 8/8/2024	4:45PM-6:15PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM 5:00PM-6:30PM 5:00PM-6:30PM 3:00PM-3:30PM 3:00PM-3:30PM 3:00PM-4:30PM 4:45PM-6:15PM 10:30AM-12:00PM	3 0 0 3 4 0 5 3 1 1 3 4 2 4	39 34 103 37 82 55 56 24 66 28 72 39 90
Ting Yi Musen Shixin Xuan Dalian Dalin Guanyu Haidong Jiabao Jie Kexin Limin Minyun	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabilistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 07-02: Experiments and Analyses - I 07-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-22: Thermal-Hydraulics Research and Applications - III	134856 135819 132757 134554 131854 134638 134510 135100 131755 133818 134882 134729 136516 135342	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/5/2024 8/5/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:59PM-6:15PM 4:59PM-6:15PM 8:30AM-10:00AM 8:30AM-10:00AM 8:00PM-6:30PM 1:00PM-2:30PM 3:00PM-4:30PM 3:00PM-4:30PM 4:59PM-6:15PM 1:00AM-3:20PM 1:00AM-3:20PM 1:00AM-3:20PM	3 0 0 3 4 0 5 3 1 1 3 4 2 4 0	39 34 103 37 82 55 56 24 66 28 72 39 90
Ting Yi Musen Shixin Xuan Dalian Dalin Guanyu Haidong Jiabao Jie Kexin Limin Minyun Peng	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-22: Thermal-Hydraulics Research and Applications - III 11-03: Core Melt Issues	134856 135819 132757 134554 131854 134638 134510 135100 131755 133818 134882 134729 136516 135342 134536	8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/6/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM 4:30PM-1:30PM 4:30PM-1:000AM 5:00PM-6:30PM 1:00PM-2:30PM 3:00PM-4:30PM 3:00PM-4:30PM 4:45PM-6:15PM 10:30AM-12:00PM 1:00PM-2:30PM	3 0 0 3 4 0 5 3 1 3 4 2 4 0	39 34 103 37 82 55 56 24 66 28 72 39 90 19
Ting Yi Musen Shixin Xuan Dalian Dalin Guanyu Haidong Jiabao Jie Kexin Limin Minyun	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabilistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 07-02: Experiments and Analyses - I 07-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-22: Thermal-Hydraulics Research and Applications - III	134856 135819 132757 134554 131854 134638 134510 135100 131755 133818 134882 134729 136516 135342	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:59PM-6:15PM 4:59PM-6:15PM 4:59PM-6:30PM 5:00PM-6:30PM 5:00PM-6:30PM 3:00PM-4:30PM 3:00PM-4:30PM 3:00PM-4:30PM 4:59PM-6:15PM 1:00PM-2:20PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 3:00PM-4:30PM	3 0 0 3 4 0 5 3 1 1 3 4 2 4 0	39 34 103 37 82 55 56 24 66 28 72 39 90
Ting Yi Musen Shixin Xuan Dalian Dalin Guanyu Haidong Jiabao Jie Kexin Limin Minyun Peng	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-22: Thermal-Hydraulics Research and Applications - III 11-03: Core Melt Issues	134856 135819 132757 134554 131854 134638 134510 135100 131755 133818 134882 134729 136516 135342 134536	8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/6/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM 4:30PM-1:30PM 4:30PM-1:000AM 5:00PM-6:30PM 1:00PM-2:30PM 3:00PM-4:30PM 3:00PM-4:30PM 4:45PM-6:15PM 10:30AM-12:00PM 1:00PM-2:30PM	3 0 0 3 4 0 5 3 1 3 4 2 4 0 1 1 4 0	39 34 103 37 82 55 56 24 66 28 72 39 90 19 108 70
Ting Yi Musen Shixin Xuan Dalian Dalin Guarryu Haidong Jiabao Jie Kexin Limin Miryun Peng Qianwen	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safrey Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02: Risk Assessments and Management - Session 2 05-01: Probabilistic Safely and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-22: Thermal-Hydraulics Research and Applications - III 11-03: Core Melt Issues 04-10: SMRs, Advanced Reactors, and Fusion	134856 135819 132757 134554 131854 134638 134510 135100 131755 133818 134882 134729 136516 135342 134536 135079	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:59PM-6:15PM 4:59PM-6:15PM 4:59PM-6:30PM 5:00PM-6:30PM 5:00PM-6:30PM 3:00PM-4:30PM 3:00PM-4:30PM 3:00PM-4:30PM 4:59PM-6:15PM 1:00PM-2:20PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 3:00PM-4:30PM	3 0 0 3 4 0 5 3 1 3 4 2 4 0	39 34 103 37 82 55 56 24 66 28 72 39 90 19 108
Ting Yi Musen Shixin Xuan Dalian Guanyu Haidong Jiabao Jie Kexin Limin Minyun Peng Qianwen Qianwen	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safrey Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02: Risk Assessments and Management - Session 2 05-01: Probabalistic Safrey and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-22: Thermal-Hydraulics Research and Applications - III 11-03: Core Melt Issues 04-10: SMRs, Advanced Reactors, and Fusion 12-04 Risk Assessments and Management - Session 4 04-03: SMRs, Advanced Reactors, and Fusion	134856 135819 132757 134554 131854 134510 135100 131755 133818 13482 134729 136516 135342 134729 136516 135342 134536 135079 135793 123745	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/6/2024 8/7/2024 8/7/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:5PM-6:15PM 4:5PM-6:15PM 4:30PM-1:30PM 4:35PM-6:30PM 5:00PM-6:30PM 5:00PM-6:30PM 5:00PM-3:30PM 3:00PM-3:30PM 4:30PM	3 0 0 3 4 0 5 3 1 3 4 2 4 0 1 1 4 0	39 34 103 37 82 55 56 24 66 28 72 39 90 19 108 88 70 88
Ting Yi Musen Shixin Xuan Dalian Guanyu Haidong Jiabao Jie Kexin Limin Minyun Peng Qianwen Qianwen Ruiyang Shangyuan	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, 8. Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02: Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 17-02: Thermal-Hydraulics Research and Applications - III 11-03: Core Melt Issues 04-10: SMRs, Advanced Reactors, and Fusion 12-04 Risk Assessments and Management - Session 4 04-03: SMRs, Advanced Reactors, and Fusion 10-06: Q Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2	134856 135819 132757 134554 131854 134638 134510 135100 131755 133818 134882 134729 136516 135342 134536 135079 135793 123745 135727	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/6/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024	4:45PM-6:15PM 3:00PM-6:15PM 4:45PM-6:15PM 4:30PM-1:30PM 4:30PM-1:000AM 5:00PM-6:30PM 1:00PM-2:30PM 3:00PM-4:30PM 3:00PM-4:30PM 3:00PM-4:30PM 10:30AM-1:20PM 10:30AM-1:20PM 4:45PM-6:15PM 10:30AM-1:30PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 3:00PM-4:30PM	3 0 0 0 3 4 0 5 5 3 1 1 3 4 4 2 2 4 0 0 1 1 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0	39 34 103 37 82 55 56 24 66 28 72 39 90 19 108 70 88 38 27
Ting Yi Musen Shixin Xuan Dalian Dalian Guarryu Haidong Jiabao Jie Kexin Limin Miryun Peng Qianwen Qianwen Ruiyang Shangyuan Shichang	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-22: Thermal-Hydraulics Research and Applications - III 11-03: Core Melt Issues 04-10: SMRs, Advanced Reactors, and Fusion 12-04 Risk Assessments and Management - Session 4 04-03: SMRs, Advanced Reactors, and Fusion 16-02 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 0-09: Physics and Transport Theory - I	134856 135819 132757 134554 134654 134638 134510 135100 131755 133818 134882 134729 136516 135342 134536 135079 135793 123745 135727 134661	8/5/2024 8/5/2024 8/6/2024 8/5/2024 8/6/2024 8/6/2024 8/6/2024 8/7/2024 8/7/2024 8/7/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:00PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM 5:00PM-6:30PM 1:00PM-6:30PM 1:00PM-4:30PM 1:00PM-4:30PM 1:00PM-4:30PM 1:00PM-4:30PM 1:00PM-4:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-3:30PM 1:00PM-3:30PM 1:00PM-4:30PM 1	3 0 0 3 4 4 0 5 5 3 4 4 2 2 4 4 0 0 1 4 4 1 1 0 0 4 5 5	39 34 103 37 82 55 56 24 66 28 72 39 90 19 108 88 70 88 33 27
Ting Yi Musen Shixin Xuan Dalian Guanyu Haidong Jiabao Jie Kexin Limin Minyun Peng Qianwen Qianwen Rulyang Shangyuan Shichang	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safrey Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02: Risk Assessments and Management - Session 2 05-01: Probabilistic Safely and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-22: Thermal-Hydraulics Research and Applications - III 11-03: Core Melt Issues 04-10: SMRs, Advanced Reactors, and Fusion 12-04: Risk Assessments and Management - Session 4 04-03: SMRs, Advanced Reactors, and Fusion 06-02: Nuclear Codes, Standards, Lucensing, & Regulatory Issues Session 2 02-09: Physics and Transport Theory - I 03-01: Control and Montoring Systems	134856 135819 132757 134554 131854 134638 134510 135100 131755 133818 13482 134729 136516 135342 134536 135793 123745 135793 123745 135727 134661 130885	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:5PM-6:15PM 4:5PM-6:15PM 4:5PM-6:15PM 4:5PM-6:15PM 5:00PM-6:30PM 5:00PM-6:30PM 5:00PM-6:30PM 3:00PM-4:30PM 3:00PM-4:30PM 4:5PM-6:15PM 1:00PM-2:30PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM	3 0 0 0 3 4 0 0 5 3 1 1 3 4 2 2 4 0 0 1 1 4 1 0 0 4 5 5 2	39 34 103 37 82 55 56 24 66 28 72 39 90 19 108 70 88 88 38 27 84 47
Ting Yi Musen Shixin Xuan Dalian Dalin Guanyu Haidong Jiabao Jie Kexin Limin Minyun Peng Qianwen Qianwen Qianwen Ruiyang Shangyuan Shichang Shiyu	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 17-02: Thermal-Hydraulics Research and Applications - III 11-03: Core Melt Issues 04-10: SMRs, Advanced Reactors, and Fusion 12-04 Risk Assessments and Management - Session 4 04-03: SMRs, Advanced Reactors, and Fusion 06-02: Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 02-09: Physics and Transport Theory - I 03-01: Control and Monitoring Systems 07-12: SMRs and Advanced Reactors - I	134856 135819 132757 134554 131854 134510 135100 131755 133818 134882 134729 136516 135342 134729 136516 135342 134739 135793 123745 135793 123745 13661 130885 134267	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/6/2024 8/7/2024 8/7/2024 8/7/2024 8/7/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:00PM-4:30PM 4:45PM-6:15PM 8:30AM-1:000AM 5:00PM-6:30PM 1:00PM-2:30PM 1:00PM-2:30PM 3:00PM-4:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-4:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-3:30PM	3 0 0 3 4 0 5 3 1 3 4 2 4 0 0 1 1 4 0 1 1 1 0 1 1 1 1 1 1 1 1 1	39 34 103 37 82 55 56 24 66 28 72 39 90 19 108 70 88 38 27 72
Ting Yi Musen Shixin Xuan Dalian Dalian Guanyu Haidong Jiabao Jie Kexin Limin Minyun Peng Qianwen Qianwen Ruiyang Shanguan Shichang Shiyu Shuo	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Tengineering and Safrey Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02: Risk Assessments and Management - Session 2 05-01: Probabalistic Safrey and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-22: Thermal-Hydraulics Research and Applications - III 11-03: Core Melt Issues 04-10: SMRs, Advanced Reactors, and Fusion 12-04: Risk Assessments and Management - Session 4 04-03: SMRs, Advanced Reactors, and Fusion 06-02: Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 02-09: Physics and Transport Theory - I 03-01: Control and Monitoring Systems 07-12: SMR and Advanced Reactors - I 07-18: Accident Analyses	134856 135819 132757 134554 131854 134638 134510 135100 131755 133818 134882 134729 136516 135342 134729 136516 135342 134536 135079 135793 123745 135727 134661 130885 134267 135908	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/6/2024 8/7/2024 8/7/2024 8/7/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:5PM-6:15PM 4:5PM-6:15PM 4:30PM-1:30PM 4:35PM-6:15PM 5:30PM-1:000AM 5:00PM-6:30PM 5:00PM-6:30PM 3:00PM-4:30PM 3:00PM-4:30PM 3:00PM-4:30PM 3:00PM-4:30PM 4:45PM-6:15PM 3:00PM-2:30PM 3:00PM-2:30PM 4:45PM-6:15PM 3:00PM-2:30PM 4:30PM 4:45PM-6:15PM 3:00PM-4:30PM 4:30PM 4:3	3 0 0 0 3 4 4 0 5 5 3 1 1 3 4 4 2 2 4 0 0 1 1 4 1 1 0 0 4 5 5 2 3 3 5 5	39 34 103 37 82 55 56 24 66 62 88 72 39 90 19 108 88 38 27 84 47 65
Ting Yi Musen Shixin Xuan Dalian Dalin Guanyu Haidong Jiabao Jie Kexin Limin Minyun Peng Qianwen Qianwen Qianwen Ruiyang Shangyuan Shichang Shiyu	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 17-02: Thermal-Hydraulics Research and Applications - III 11-03: Core Melt Issues 04-10: SMRs, Advanced Reactors, and Fusion 12-04 Risk Assessments and Management - Session 4 04-03: SMRs, Advanced Reactors, and Fusion 06-02: Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 02-09: Physics and Transport Theory - I 03-01: Control and Monitoring Systems 07-12: SMRs and Advanced Reactors - I	134856 135819 132757 134554 131854 134510 135100 131755 133818 134882 134729 136516 135342 134729 136516 135342 134739 135793 123745 135793 123745 13661 130885 134267	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/6/2024 8/7/2024 8/7/2024 8/7/2024 8/7/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:00PM-4:30PM 4:45PM-6:15PM 8:30AM-1:000AM 5:00PM-6:30PM 1:00PM-2:30PM 1:00PM-2:30PM 3:00PM-4:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-4:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-3:30PM	3 0 0 3 4 0 5 3 1 3 4 2 4 0 0 1 1 4 0 1 1 1 0 1 1 1 1 1 1 1 1 1	39 34 103 37 82 55 56 24 66 28 72 39 90 19 108 70 88 38 27 72
Ting Yi Musen Shixin Xuan Dalian Dalian Guanyu Haidong Jiabao Jie Kexin Limin Minyun Peng Qianwen Qianwen Ruiyang Shingyuan Shichang Shiyu Shuo Songsong Songsong	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-02: Thermal-Hydraulics Research and Applications - III 11-03 Core Melt Issues 04-10: SMRs, Advanced Reactors, and Fusion 12-04 Risk Assessments and Management - Session 4 04-03: SMRs, Advanced Reactors, and Fusion 06-02 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 02-09: Physics and Transport Theory - I 03-01: Control and Monitoring Systems 07-12: SMR and Advanced Reactors - I 07-18: Accident Analyses	134856 135819 132757 134554 131854 134638 134510 135100 131755 133818 134882 134729 136516 135342 134729 136516 135342 134536 135079 135793 123745 135727 134661 130885 134267 135908	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/6/2024 8/7/2024 8/7/2024 8/7/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:5PM-6:15PM 4:5PM-6:15PM 4:30PM-1:30PM 4:35PM-6:15PM 5:30PM-1:000AM 5:00PM-6:30PM 5:00PM-6:30PM 3:00PM-4:30PM 3:00PM-4:30PM 3:00PM-4:30PM 3:00PM-4:30PM 4:45PM-6:15PM 3:00PM-2:30PM 3:00PM-2:30PM 4:45PM-6:15PM 3:00PM-2:30PM 4:30PM 4:45PM-6:15PM 3:00PM-4:30PM 4:30PM 4:3	3 0 0 0 3 4 4 0 5 5 3 1 1 3 4 4 2 2 4 0 0 1 1 4 1 1 0 0 4 5 5 2 3 3 5 5	39 34 103 37 82 55 56 24 66 62 88 72 39 90 19 108 88 38 27 84 47 65
Ting Yi Musen Shixin Xuan Dalian Dalian Guarryu Haidong Jiabao Jije Kexin Limin Miryun Peng Qianwen Qianwen Ruiyang Shangyuan Shichang Shiyu Shoogsong Songsong Songsong	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-22: Thermal-Hydraulics Research and Applications - III 11-03: Core Melt Issues 04-10: SMRs, Advanced Reactors, and Fusion 12-04: Risk Assessments and Management - Session 4 04-03: SMRs, Advanced Reactors, and Fusion 06-02: Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 02-09: Physics and Transport Theory - I 03-01: Control and Monitoring Systems 07-12: SMR and Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors, and Fusion 08-07: Computational Fluid Dynamics (CFD) and Applications - VII	134856 135819 132757 134554 134654 134638 134510 135100 131755 133818 134882 134729 136516 135342 134536 135079 135793 123745 135727 134661 130885 134267 135908 133310 135009	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/7/2024 8/7/2024 8/7/2024 8/5/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM 4:30PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM 5:00PM-6:30PM 1:00PM-6:30PM 1:00PM-3:20PM	3 0 0 3 4 0 5 3 1 3 4 2 4 0 0 1 4 1 4 0 0 1 4 1 4 0 1 1 1 1 1 0 1 1 1 1	39 34 103 37 82 55 56 66 24 66 28 72 39 90 19 108 83 27 84 47 65 76
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Ting Yi Musen Shixin Xuan Dalian Dalian Guariyu Haidong Jiabao Jie Kexin Limin Miryun Peng Qianwen Qianwen Ruiyang Shangyuan Shangyuan Shangyuan Shiyu Songsong Songsong Songsong Xusong Yan Xustong Yu Yuhang Yuhang Zhanwei Zhaoxing Zhe Zang Rosa Martin Dingsheng Frank	Liao Liao Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02: Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-22: Thermal-Hydraulics Research and Applications - III 11-03: Core Melt Issues 04-10: SMRs, Advanced Reactors, and Fusion 10-124: Risk Assessments and Management - Session 4 04-03: SMRs, Advanced Reactors, and Fusion 10-04: Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 02-09: Physics and Transport Theory - I 03-01: Control and Monitoring Systems 07-12: SMR and Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors, and Fusion 08-07: Computational Fluid Dynamics (CFD) and Applications - VII 03-09: SMRs, Advanced Reactors, and Fusion 08-07: Computational Fluid Dynamics (CFD) and Applications - VII 03-09: SMRs, Advanced Reactors, and Fusion 08-09: SMRs, Advanced Reactors, and Fusion 08-09: SRBRs, Advanced Reactors, and Fusion 09-09: Radiation Shielding 00-09: Radiation Shielding 00-09: Radiation Shielding 00-09: Radiation Shielding 00-09: Radiation Fusion 00-09: SRBRs, Advanced Reactors, and Fusion 00-09: SRB	134856 135819 132757 134554 134638 134510 135100 131755 133818 134882 134529 136516 135342 134529 136579 135793 123745 135727 134661 130885 134267 135908 133310 135699 135711 132433 136168 135699 135711 132433 136168 134666 135685 135000 135313 134353 134353 134353 134353 134353 134353 134353 134353 134353 134353 134353 134353 134353 134296 136014 135019 133224	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/7/2024 8/7/2024 8/7/2024 8/7/2024 8/5/2024 8/7/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/5/2024 8/6/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM 4:30PM 4:45PM-6:15PM 5:30PM-1:000AM 5:00PM-6:30PM 5:00PM-6:30PM 5:00PM-4:30PM 3:00PM-4:30PM 3:00PM-4:30PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM 3:00PM-4:30PM 4:45PM-6:15PM	3 0 0 3 4 0 5 3 1 1 3 4 4 2 2 4 0 0 1 4 1 5 5 2 3 5 1 1 5 5 4 4 0 0 4 1 1 5 5 0 0 3 4 4 1 5 5 0 0 5 5 4 1	39 34 103 37 82 25 55 56 66 24 66 68 28 72 39 90 19 108 70 88 88 27 84 47 65 76 108 102 77 71 21 54 34 34 51 32 80 84 37 25 29 23 75 103 84 102
Ting Yi Musen Shixin Musen Shixin Musen Shixin Dallan Dallan Dallan Guarnyu Haidong Jiabao Jie Kexin Limin Miryun Peng Qianwen Qianwen Rulyang Shangyuan Shichang Shiyu Shuo Songsong Songyang Xinyan Xuuting Xuesong Xuesong Yan Yu	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Lucensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-02: Thermal-Hydraulics Research and Applications - III 11-03 Core Melt Issues 04-10: SMRs, Advanced Reactors, and Fusion 12-04 Risk Assessments and Management - Session 4 04-03: SMRs, Advanced Reactors, and Fusion 06-02 Nuclear Codes, Standards, Lucensing, & Regulatory Issues Session 2 02-09: Physics and Transport Theory - I 03-01: Control and Monitoring Systems 07-12: SMR and Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors, and Fusion 08-07: Computational Fluid Dynamics (CFD) and Applications - VI 03-05: Innovations in Nuclear Engineering 09-04: Radiation Shieding 09-04: Radiation Shieding 09-04: Radiation Fluid Dynamics (CFD) and Applications - II 01-05: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - V 04-12: SMRs, Advanced Reactors, and Fusion 02-03: Nuclear Puels and Materials - III 15-02 09-05: Radiation Protection and Dose Assessment 08-01: Computational Fluid Dynamics (CFD) and Applications - I 07-18: Accident Analyses 04-04: SMRs, Advanced Reactors, and Fusion 02-03: Nuclear Pineering and Safety Analysis 02-09: Piysics and Transport Theory - I 04-08: SMRs, Advanced Reactors, and Fusion 09-01: Waster Treatment and Decontamination	134856 135819 132757 134554 131854 134510 135100 131755 133818 134882 134729 136516 135342 134729 136516 135342 134536 135079 135793 123745 134561 1358509 135793 123745 134661 135869 135793 135793 135793 135793 135793 135793 135793 135793 1358509 135711 130885 134267 135609 135711 132433 13666 135666 135666 135685 136000 132390 136133 134296 136867 136014 135019 133224 135019	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/5/2024 8/7/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM 4:30PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM 5:00PM-6:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-3:30PM	3 0 0 3 4 0 5 3 1 3 4 2 4 4 0 1 1 4 5 2 3 5 1 5 3 1 5 4 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0	39 34 103 37 82 25 55 56 24 66 628 72 39 90 19 108 70 88 38 27 74 65 76 108 102 77 77 21 54 51 32 80 84 84 87 27 39 80 84 84 87 81 80 84 81 80 84 81 80 84 81 80 84 81 80 84 81 80 84 81 80 80 84 81 80 80 84 81 80 80 84 81 80 80 84 81 80 80 80 80 80 80 80 80 80 80 80 80 80
Ting Yi Musen Shixin Xuan Dalian Dalian Guanyu Haidong Jiabao Jije Kexin Limin Minyun Peng Qianwen Qianwen Ruiyang Shangyuan Shichang Shiyu Shongsong Shangyan Xiuting Xuesong Yu Yuhang Yuhang Yuhang Yuhang Zhanwei Zhaoxing Zhanwei Zhaoxing Zhe Zang Rosa Martin Jingsheng Frank Hongxing	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-22: Thermal-Hydraulics Research and Applications - III 11-03: Core Melt Issues 04-10: SMRs, Advanced Reactors, and Fusion 12-04: Risk Assessments and Management - Session 4 04-03: SMRs, Advanced Reactors, and Fusion 16-02: Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 02-09: Physics and Transport Theory - I 03-01: Control and Monitoring Systems 07-12: SMR and Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors - I 07: Advanced Reactors - I 07: Advanced Reactors - I 07:	134856 135819 132757 134554 134854 134510 135100 131755 133818 134882 134729 136516 135342 134729 136516 135342 134536 135079 135793 123745 135727 134661 130885 134267 135908 135793 123745 134661 135808 13519 135609 135711 132433 136168 135219 134290 135219 134290 135313 134290 135313 134290 136168 135685 136000 132390 136168 135685 136000 132390 136168 136867 136867 136867 136919 133224 133224 133224 133224 133224 133224	8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/7/2024 8/7/2024 8/7/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM 4:30PM-4:30PM 4:45PM-6:15PM 5:30PM-1:000AM 5:00PM-6:30PM 5:00PM-6:30PM 3:00PM-4:30PM 3:00PM-4:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-2:30PM 4:45PM-6:15PM 3:00PM-4:30PM 8:30AM-1:00AM 4:45PM-6:15PM 8:30AM-1:50PM 4:45PM-6:15PM 8:00PM-2:30PM 4:45PM-6:15PM 8:00PM-3:30PM 8:30AM-1:00AM 8:00AM-1:00AM	3 0 0 3 4 0 5 3 3 1 1 5 4 4 0 0 4 1 5 5 0 0 3 4 4 1 5 5 0 5 4 4 3 2 2	39 34 103 37 82 85 55 56 66 24 66 28 72 39 90 19 108 70 88 88 38 27 7 84 47 65 76 108 102 77 21 54 34 51 32 80 84 37 75 25 29 23 75 103 84 102 30 20 95
Ting Yi Musen Shixin Musen Shixin Musen Shixin Dallan Dallan Dallan Guarnyu Haidong Jiabao Jie Kexin Limin Miryun Peng Qianwen Qianwen Rulyang Shangyuan Shichang Shiyu Shuo Songsong Songyang Xinyan Xuuting Xuesong Xuesong Yan Yu	Liao Liao Lin Lin Lin Liu	08-03: Computational Fluid Dynamics (CFD) and Applications - III 06-03 Nuclear Codes, Standards, Lucensing, & Regulatory Issues Session 3 05-04: Nuclear Engineering and Safety Analysis 02-03: Nuclear Fuels and Materials - III 04-06: SMRs, Advanced Reactors, and Fusion 03-02: Human Factors and Digitization 12-02 Risk Assessments and Management - Session 2 05-01: Probabalistic Safety and Risk Assessment 07-14: Single and Multi-Phase Flow - I 07-14: Single and Multi-Phase Flow - I 07-02: Experiments and Analyses - I 01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV 08-03: Computational Fluid Dynamics (CFD) and Applications - III 04-07: SMRs, Advanced Reactors, and Fusion 07-02: Thermal-Hydraulics Research and Applications - III 11-03 Core Melt Issues 04-10: SMRs, Advanced Reactors, and Fusion 12-04 Risk Assessments and Management - Session 4 04-03: SMRs, Advanced Reactors, and Fusion 06-02 Nuclear Codes, Standards, Lucensing, & Regulatory Issues Session 2 02-09: Physics and Transport Theory - I 03-01: Control and Monitoring Systems 07-12: SMR and Advanced Reactors - I 07-18: Accident Analyses 04-09: SMRs, Advanced Reactors, and Fusion 08-07: Computational Fluid Dynamics (CFD) and Applications - VI 03-05: Innovations in Nuclear Engineering 09-04: Radiation Shieding 09-04: Radiation Shieding 09-04: Radiation Fluid Dynamics (CFD) and Applications - II 01-05: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - V 04-12: SMRs, Advanced Reactors, and Fusion 02-03: Nuclear Puels and Materials - III 15-02 09-05: Radiation Protection and Dose Assessment 08-01: Computational Fluid Dynamics (CFD) and Applications - I 07-18: Accident Analyses 04-04: SMRs, Advanced Reactors, and Fusion 02-03: Nuclear Pineering and Safety Analysis 02-09: Piysics and Transport Theory - I 04-08: SMRs, Advanced Reactors, and Fusion 09-01: Waster Treatment and Decontamination	134856 135819 132757 134554 131854 134510 135100 131755 133818 134882 134729 136516 135342 134729 136516 135342 134536 135079 135793 123745 134561 1358509 135793 123745 134661 135869 135793 135793 135793 135793 135793 135793 135793 135793 1358509 135711 130885 134267 135609 135711 132433 13666 135666 135666 135685 136000 132390 136133 134296 136867 136014 135019 133224 135019	8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/6/2024 8/6/2024 8/5/2024 8/7/2024	4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM 4:30PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM 5:00PM-6:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-3:30PM	3 0 0 3 4 0 5 3 1 3 4 2 4 4 0 1 1 4 5 2 3 5 1 5 3 1 5 4 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0	39 34 103 37 82 25 55 56 24 66 628 72 39 90 19 108 70 88 38 27 74 65 76 108 102 77 77 21 54 51 32 80 84 84 87 27 39 80 84 84 87 81 80 84 81 80 84 81 80 84 81 80 84 81 80 84 81 80 84 81 80 80 84 81 80 80 84 81 80 80 84 81 80 80 84 81 80 80 80 80 80 80 80 80 80 80 80 80 80





Hanyu	Luo	07-04: Experiments and Analyses - III	135192	8/6/2024	5:00PM-6:30PM	2	52
Menghao	Luo	07-17: Heat Transfer - II	135530	8/7/2024	4:45PM-6:15PM	4	75
Wenwei	Luo	10-02 Advanced Manufacturing 2	135730	8/5/2024	3:00PM-4:30PM	4	26
Yunhao	Luo	13-01: Computer Code V&V - I	134783	8/6/2024	1:00PM-2:30PM	4	49
Dufeng	Lv	11-01 Severe Accident Mitigation Strategies	135532	8/6/2024	1:00PM-2:30PM	3	46
Anxiang	Ma	08-04: Computational Fluid Dynamics (CFD) and Applications - IV	134964	8/8/2024	4:45PM-6:15PM	2	110
Baisong	Ma	01-02: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - II	134488	8/5/2024	3:00PM-4:30PM	2	31
Chao Wenkui	Ma Ma	12-04 Risk Assessments and Management - Session 4 04-11: SMRs, Advanced Reactors and Fusion	135954 135642	8/8/2024 8/7/2024	8:30AM-10:00AM 4:45PM-6:15PM	0	88 78
Xiaoyao	Ma	07-15: Single and Multi-Phase Flow - II	134853	8/7/2024	3:00PM-4:30PM	1	67
Yan	Ma	02-03: Nuclear Fuels and Materials - III	134775	8/5/2024	4:45PM-6:15PM	4	37
Yugao	Ma	04-06: SMRs, Advanced Reactors, and Fusion	134775	8/8/2024	8:30AM-10:00AM	0	81
Yugao	Ma	04-08: SMRs, Advanced Reactors, and Fusion	135172	8/8/2024	3:00PM-4:30PM	2	101
Hideo	Machida	06-01 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 1	126112	8/5/2024	1:00PM-2:30PM	0	19
Tianming	Man	11-02 Severe Accident Mitigation Phenomena	134633	8/6/2024	5:00PM-6:30PM	5	54
Cui	Mao	05-04: Nuclear Engineering and Safety Analysis	133789	8/8/2024	3:00PM-4:30PM	1	103
Kenichi	Matsuba	11-03 Core Melt Issues	135809	8/8/2024	4:45PM-6:15PM	4	108
Shuhei	Matsunaga	10-01: Advanced Manufacturing 1	132637	8/5/2024	1:00PM-2:30PM	0	17
Oleksandr	Mazurok	01-05: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - V	134916	8/7/2024	4:45PM-6:15PM	0	80
Guido	Mazzini	07-11: Simulations and Predictions - III	135616	8/8/2024	3:00PM-4:30PM	4	98
Luhan	Mei	14-01: Nuclear Education and Public Acceptance	131292	8/6/2024	1:00PM-2:30PM	0	41
Xiantao	Meng	02-06: Fabrication, Fuel Cycle, Shielding, Storage - II	135666	8/7/2024	8:30AM-10:00AM	1	62
Song	Mengyan	01-07: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VII	135418	8/8/2024	10:30AM-12:00PM	2	96
Kazuya	Mori	01-05: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - V	135012	8/7/2024	4:45PM-6:15PM	2	80
Masayoshi	Mori	10-01: Advanced Manufacturing 1	134938	8/5/2024	1:00PM-2:30PM	5	18
Shoji	Mori	07-15: Single and Multi-Phase Flow - II	136501	8/7/2024	3:00PM-4:30PM	5	67
Keisuke	Morita	04-12: SMRs, Advanced Reactors, and Fusion	135407	8/8/2024	8:30AM-10:00AM	4	85
Ryo	Morita	08-11: Computational Fluid Dynamics (CFD) and Applications - XI	130797	8/8/2024	10:30AM-12:00PM	1	95
Pascal	Mosler	15-10	135585	8/6/2024	1:00PM-2:30PM	5	44
Defang	Mu	15-09	135345	8/7/2024	8:30AM-10:00AM	1	59
Merouane	Najar	12-01 Risk Assessments and Management - Session 1	133604	8/6/2024	1:00PM-2:30PM	2	48
Hiroki Hiroaki	Nakamura Nakanishi	02-04: Nuclear Fuels and Materials - IV 07-07: Experiments and Analyses - VI	134660 134244	8/6/2024 8/7/2024	1:00PM-2:30PM 8:30AM-10:00AM	1	46 61
Ernestas	Narkūnas	09-03: Decommissioning	134264	8/5/2024	4:45PM-6:15PM	4	36
Muyi	Ni	05-04: Nuclear Engineering and Safety Analysis	136160	8/8/2024	3:00PM-4:30PM	3	103
Si	Ni	07-03: Experiments and Analyses - II	135074	8/5/2024	4:45PM-6:15PM	3	35
Jingyu	Nie	04-07: SMRs, Advanced Reactors, and Fusion	135246	8/8/2024	10:30AM-12:00PM	2	89
Rui	Nie	02-01: Nuclear Fuels and Materials - I	135581	8/5/2024	1:00PM-2:30PM	3	22
Yoshihisa	Nishi	12-03 Risk Assessments and Management - Session 3	135815	8/7/2024	8:30AM-10:00AM	3	63
Yosuke	Nishimura	04-12: SMRs, Advanced Reactors, and Fusion	135182	8/8/2024	8:30AM-10:00AM	3	85
Shipeng	Niu	11-01 Severe Accident Mitigation Strategies	127856	8/6/2024	1:00PM- 2:30PM	0	46
Johndel	Obra	15-06	134780	8/7/2024	8:30AM-10:00AM	1	58
Priscilla	Oforiwaa	05-05: Radiation Science and Nuclear Materials	132278	8/8/2024	3:00PM-4:30PM	3	104
Priscilla	Oforiwaa	09-06: Waste Management and Environmental Studies	132442	8/5/2024	4:45PM-6:15PM	0	36
Samuel	Oke	08-06: Computational Fluid Dynamics (CFD) and Applications - VI	135419	8/8/2024	10:30AM-12:00PM	4	94
Shoichiro	Okita	04-06: SMRs, Advanced Reactors and Fusion	131748	8/8/2024	8:30AM-10:00AM	3	81
Joseph	Oncken	03-05: Innovations in Nuclear Engineering	133205	8/7/2024	4:45PM-6:15PM	0	77
Ryoji	Osafune	10-03: Advanced Manufacturing 3	135920	8/5/2024	4:45PM-6:15PM	0	34
Cuijie	Pan	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV	139586	8/8/2024	3:00PM-4:30PM	4	101
Byung Gi	Park	04-03: SMRs, Advanced Reactors, and Fusion	147502	8/5/2024	4:45PM-6:15PM	5	38
Jie	Pei	11-03 Core melt issues	134398	8/8/2024	4:45PM-6:15PM	0	108
Yu	Pei	01-02: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - II	130083	8/5/2024	3:00PM-4:30PM	0	31
Matthias	Peiretti	04-07: SMRs, Advanced Reactors and Fusion	133703	8/8/2024	10:30AM-12:00PM	1	89
Zhang	Peiyao	05-07: System Performance and Safety Enhancements	135588	8/7/2024	4:45PM-6:15PM	4	79
Cheng	Peng	08-08: Computational Fluid Dynamics (CFD) and Applications - VIII	135626	8/8/2024	4:45PM-6:15PM	1	110
Lei	Peng	02-04: Nuclear Fuels and Materials - IV	134733	8/6/2024	1:00PM-2:30PM	4	46
Wei	Peng	04-09: SMRs, Advanced Reactors, and Fusion	134847	8/8/2024	4:45PM-6:15PM	3	109
Wei	Peng	15-10 04-03-0409- Advanced December and Surface	135428	8/6/2024	1:00PM-2:30PM	0	43
Antonin	Povolny	04-02: SMRs, Advanced Reactors, and Fusion	133805	8/5/2024	3:00PM-4:30PM	0	30 40
Ben Duan	Qi Qianni	05-03: Digitalization and Fault Detection 02-09: Physics and Transport Theory - I	134996 135085	8/5/2024 8/8/2024	4:45PM-6:15PM 8:30AM-10:00AM	3	84
Jianshu	Qiao	15-05 Friysics and Transport Theory - I	134428	8/6/2024	5:00PM-6:30PM	3	50
Min	Qiao	08-05: Computational Fluid Dynamics (CFD) and Applications - V	135197	8/8/2024	8:30AM-10:00AM	5	86
Guopeng	Qin	02-05: Fabrication, Fuel Cycle, Shielding, Storage - I	135681	8/6/2024	5:00PM-6:30PM	1	53
Tianchen	Qiu	07-20: Thermal-Hydraulics Research and Applications - I	133655	8/8/2024	10:30AM-12:00PM	3	91
Yongping	Qiu	12-03 Risk Assessments and Management - Session 3	135379	8/7/2024	8:30AM-10:00AM	2	63
Zhengzhe	Qu	09-06: Waste Management and Environmental Studies	134283	8/5/2024	4:45PM-6:15PM	1	36
Fengyang	Quan	11-03 Core Melt Issues	136323	8/8/2024	4:45PM-6:15PM	3	108
Lie	Quan	15-08	135207	8/6/2024	5:00PM-6:30PM	3	50
Dipanjan	Ray	02-09: Physics and Transport Theory - I	133182	8/8/2024	8:30AM-10:00AM	4	84
Jiaxing	Ren	15-06	134834	8/7/2024	8:30AM-10:00AM	2	58
Qisen						1	21
	Ren	02-01: Nuclear Fuels and Materials - I	132169	8/5/2024	1:00PM-2:30PM		100
Quanyao	Ren	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV	136299	8/5/2024 8/8/2024	1:00PM-2:30PM 3:00PM-4:30PM	0	
Quanyao	Ren Ren	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI	136299 138262	8/5/2024 8/8/2024 8/7/2024	1:00PM-2:30PM 3:00PM-4:30PM 8:30AM-10:00AM	0 4	61
Quanyao Xiaoxiao	Ren Ren Ren	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRs, Advanced Reactors, and Fusion	136299 138262 135307	8/5/2024 8/8/2024 8/7/2024 8/8/2024	1:00PM-2:30PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM	0 4 1	61 85
Quanyao Xiaoxiao Zhiyuan	Ren Ren Ren Ren	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-07: Experiments and Analyses - VI 04-01: SMRs, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2	136299 138262 135307 135443	8/5/2024 8/8/2024 8/7/2024 8/8/2024 8/5/2024	1:00PM-2:30PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 3:00PM-4:30PM	0 4 1 2	61 85 26
Quanyao Xiaoxiao Zhiyuan Francesco	Ren Ren Ren Ren Rizzo	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRs, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination	136299 138262 135307 135443 136066	8/5/2024 8/8/2024 8/7/2024 8/8/2024 8/5/2024 8/5/2024	1:00PM-2:30PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 3:00PM-4:30PM 1:00PM-2:30PM	0 4 1 2 4	61 85 26 20
Quanyao Xiaoxiao Zhiyuan Francesco Davide	Ren Ren Ren Ren Rizzo Rozzia	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRs, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III	136299 138262 135307 135443 136066 136859	8/5/2024 8/8/2024 8/7/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024	1:00PM-2:30PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 3:00PM-4:30PM 1:00PM-2:30PM	0 4 1 2 4	61 85 26 20 19
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga	Ren Ren Ren Ren Rizzo Rozzia Ryoei	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRs, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-02: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring	136299 138262 135307 135443 136066 136859 135912	8/5/2024 8/8/2024 8/7/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024	1:00PM-2:30PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 3:00PM-4:30PM 1:00PM-2:30PM 1:00PM-2:30PM 3:00PM-4:30PM	0 4 1 2 4 4 3	61 85 26 20 19 28
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef	Ren Ren Ren Rizzo Rozzia Ryoei Sabol	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRS, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II	136299 138262 135307 135443 136066 136859 135912 136218	8/5/2024 8/8/2024 8/7/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024	1:00PM-2:30PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 3:00PM-4:30PM 1:00PM-2:30PM 1:00PM-2:30PM 8:30AM-10:00AM	0 4 1 2 4 4 3 3	61 85 26 20 19 28 62
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga	Ren Ren Ren Rein Rizzo Rozzia Ryoei Sabol Sabol	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRs, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-02: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring	136299 138262 135307 135443 136066 136859 135912 136218 136232	8/5/2024 8/8/2024 8/7/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024	1:00PM-2:30PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 3:00PM-4:30PM 1:00PM-2:30PM 1:00PM-2:30PM 3:00PM-4:30PM	0 4 1 2 4 4 3	61 85 26 20 19 28 62 62
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef Josef	Ren Ren Ren Rizzo Rozzia Ryoei Sabol	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRS, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 15-12	136299 138262 135307 135443 136066 136859 135912 136218	8/5/2024 8/8/2024 8/7/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024	1:00PM-2:30PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 3:00PM-4:30PM 1:00PM-2:30PM 1:00PM-2:30PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM	0 4 1 2 4 4 3 3	61 85 26 20 19 28 62
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Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef Josef Josef Rohunsingh	Ren Ren Ren Rizzo Rozzia Ryoei Sabol Sabol Sabol Sam	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRs, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Full Cycle, Shielding, Storage - II 02-06: Fabrication, Full Cycle, Shielding, Storage - II 15-12 06-02 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2	136299 138262 135307 135443 136066 136859 135912 136218 136232 136237 134457	8/5/2024 8/8/2024 8/8/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/7/2024	1:00PM-2:30PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 1:00PM-2:30PM 1:00PM-2:30PM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM	0 4 1 2 4 4 3 3 3 4 4	61 85 26 20 19 28 62 62 62 27
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef Josef Josef Rohunsingh Yaodong	Ren Ren Ren Rizzo Rozzia Ryoei Sabol Sabol Sam Sang Sarraswat Sato	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRs, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 15-12 06-02 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Control and Monitoring Systems	136299 138262 135307 135443 136066 136859 135912 136218 136232 136237 134457 134377	8/5/2024 8/8/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/7/2024 8/7/2024 8/5/2024	1:00PM-2:30PM 8:30AM-1:30PM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-30PM 1:00PM-2:30PM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM	0 4 1 2 4 4 4 3 3 4 4 4 1 3	61 85 26 20 19 28 62 62 60 27 47 49
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef Josef Josef Rohunsingh Yaodong Satya Prakash Yuki He	Ren Ren Ren Ren Rizzo Rozzia Ryzei Sabol Sabol Sabol Sam Sang Saraswat Sato	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRS, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 15-12 06-02: Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Computer Code V&V - I 10-01: Advanced Manufacturing 1 15-05	136299 138262 135307 135443 136066 136859 135912 136218 136232 136237 134457 134377 134294 13230 134678	8/5/2024 8/8/2024 8/8/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024	1:00PM-2:30PM 8:30AM-1:30PM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 1:00PM-2:30PM 1:00PM-2:30PM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-2:30PM 1:00PM-2:30PM	0 4 1 2 4 4 3 3 4 4 1 1 3 3 1 5	61 85 26 20 19 28 62 62 60 27 47 49 17
Quanyao Xiaoxiao Zihiyuan Francesco Davide Nakasuga Josef Josef Josef Rohunsingh Yaodong Satya Prakash Yuki He Zhengrun	Ren Ren Ren Ren Rizzo Rozzia Ryoei Sabol Sabol Sabol Satos Sam Sang Saraswat Sato Stato Stato Stato Stang	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-03: SMRS, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 15-12 06-02 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Control and Monitoring Systems 13-01: Computer Code V8V - I 10-01: Advanced Manufacturing 1 15-05 11-01 Severe Accident Mitigation Strategies	136299 138262 135307 135443 136066 136859 135912 136218 136232 136237 134457 134377 134294 133230 136678	8/5/2024 8/7/2024 8/7/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024	1:00PM-2:30PM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-	0 4 1 2 4 4 3 3 4 4 4 1 3 3 1 5 5 4	61 85 26 20 19 28 62 62 60 27 47 49 17 50
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef Josef Josef Rohunsingh Yaodong Satya Prakash Yuki He Zhengrun Zhenhua	Ren Ren Ren Ren Rizzo Rozzia Ryoei Sabol Sabol Sabol Sam Sang Saraswat Sang Shang Shang Shang	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRs, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 15-12 06-02: Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Computer Code V&V - I 10-01: Advanced Manufacturing 1 15-05 11-01: Advanced Manufacturing 1 15-05 11-01: Severe Accident Mitigation Strategies 07-09: Simulations and Predictions - I	136299 138262 135307 135443 136066 136859 135912 136237 136237 134377 134457 134377 134294 133230 134678 135645 134551	8/5/2024 8/8/2024 8/7/2024 8/6/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024	1:00PM-2:30PM 8:30AM-1:30PM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-30PM 1:00PM-2:30PM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM-1	0 4 1 2 4 4 3 3 4 4 1 3 3 3 4 4 1 5 5 4 4 4 4 5 5 7 7 8 7 8 7 8 7 8 7 8 7 8 8 7 8 7 8	61 85 26 20 19 28 62 62 60 27 47 49 17 50 46
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef Josef Josef Josef Josef Josef Hohunsingh Yaodong Satya Prakash Yuki He Zhengrun Zhenhua Chencheng	Ren Ren Ren Ren Rizzo Rozzia Ryoei Sabol Sabol Sabol San Sang Saraswat Sato Shang Shang Sheng Shi	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRs, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 15-12 06-02 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Control and Monitoring Systems 13-01: Computer Code V&V - I 10-01: Advanced Manufacturing 1 15-05 11-01 Severe Accident Mitigation Strategies 07-09: Simulations and Predictions - I 1 01-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX	136299 138262 135307 135443 136066 136859 135912 136218 136232 136237 134457 134377 134294 133230 134678 135645 134551 136330	8/5/2024 8/7/2024 8/7/2024 8/6/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/7/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024	1:00PM-2:30PM 8:30AM-10:00AM	0 4 1 2 4 4 4 3 3 4 4 4 1 3 3 1 5 5 4 4 2 2 5	61 85 26 20 19 28 62 62 62 47 47 49 17 50 46 90
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef Josef Josef Aodong Satya Prakash Yuki He Zhengrun Zhenhua Chencheng Haili	Ren Ren Ren Ren Rizzo Rozzia Ryzei Sabol Sabol Sabol Samg Saraswat Saraswat Shang Shang Shi	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRs, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 20-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 15-12 06-02 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Control and Monitoring Systems 13-01: Computer Code V&V - I 10-01: Advanced Manufacturing 1 15-05 11-01: Sewere Accident Mitgation Strategies 07-09: Simulations and Predictions - I 01-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX 12-04 Risk Assessments and Management - Session 4	136,299 138262 135307 135443 136066 136859 135912 136218 136232 136237 134457 134377 134294 133230 134678 135545 134551 136330	8/5/2024 8/8/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024	1:00PM2:30PM 8:30AM-4:30PM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:30PM 1:00PM2:30PM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:30PM 1:00PM2:30PM 1:00PM2:30PM 1:00PM2:30PM 1:00PM2:30PM 1:00PM2:30PM 1:00PM2:30PM 8:30AM-1:200PM 8:30AM-1:200PM 8:30AM-1:200PM	0 4 1 2 4 4 4 3 3 4 4 4 1 3 3 3 1 5 5 4 4 2 5 5 2	61 85 26 20 19 28 62 62 60 27 47 49 17 50 46 90
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef Josef Josef Rohunsingh Yaodong Satya Prakash Yuki He Zhengrun Zhenhua Chencheng Haili	Ren Ren Ren Ren Rizzo Rozzia Ryoei Sabol Sabol Sabol Sam Sang Saraswat Sato Shang Shang Sheng Shi Shi	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRS, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 15-12 06-02: Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Control and Monitoring Systems 13-01: Computer Code V&V - I 10-01: Advanced Manufacturing 1 15-05 11-01: Severe Accident Mitigation Strategies 07-09: Simulations and Predictions - I 01-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX 12-04 Risk Assessments and Mangement - Session 4 02-02: Nuclear Fuel Materials - III	136299 138262 135307 135443 136066 136859 135912 136218 136232 136237 134457 134294 133230 134678 135645 136330 13862 134306	8/5/2024 8/8/2024 8/8/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/7/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/8/2024 8/8/2024 8/8/2024	1:00PM-2:30PM 8:30AM-1:00M 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 1:00PM-2:30PM 1:00PM-2:30PM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM	0 4 1 2 4 4 4 3 3 4 4 1 3 3 1 5 4 4 2 2 7 4 4 4 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8	61 85 26 20 19 28 62 62 60 27 47 49 17 50 46 90 1111 88
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef Josef Josef Alian Josef Josef Josef Alian Josef Alian Zhengrun Zhenhua Chencheng Haili Jiajian Lei	Ren Ren Ren Ren Rizzo Rozzia Ryoei Sabol Sabol Sabol Sabol Sato Saraswat Sarg Saraswat Sato Shang Shang Sheng Shi Shi	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-03: SMRS, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Abuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Control and Monitoring Systems 13-01: Computer Code V8W - I 10-01: Advanced Manufacturing 1 15-05 1-01: Severe Accident Mitigation Strategies 07-09: Simulations and Predictions - I 10-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX 12-04 Risk Assessments and Management - Session 4 02-02: Nuclear Fuel Sand Reviews	136,299 138262 135307 135443 136066 136859 135912 1362218 136232 136237 134457 134377 134294 133230 134678 135645 134551 136330 135862 134306 135560	8/5/2024 8/8/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024 8/6/2024	1:00PM-2:20PM 8:30AM-10:00AM	0 4 1 2 4 4 3 3 4 4 4 1 3 3 1 5 5 4 2 5 5 2 1 1 1	61 85 26 20 19 28 62 62 60 27 47 49 17 50 46 90 1111 88 82 29
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef Josef Josef Josef Aohunsingh Yaodong Satya Prakash Yuki He Zhengrun Zhenhua Chencheng Haili Jiajian Lei	Ren Ren Ren Ren Rizzo Rozzia Rycei Sabol Sabol Sabol Sam Sang Saraswat Sato Shang Shang Shang Shi Shi Shi Shi	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRS, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 15-12 06-02: Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Control and Monitoring Systems 13-01: Computer Code V&V - I 10-01: Advanced Manufacturing 1 15-05 11-01: Advanced Manufacturing 1 15-05 11-01: Severe Accident Mitigation Strategies 07-09: Simulations and Predictions - I 01-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX 12-04 filsk Assessments and Management - Session 4 02-02: Nuclear Fuels and Materials - II 02-15: Generic Topics and Reviews 02-15: Generic Topics and Reviews	136299 138262 135307 135443 136066 136859 135912 136218 136232 136237 134457 134294 133230 134678 135645 134551 136330 135662 134560 135560	8/5/2024 8/8/2024 8/7/2024 8/6/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/7/2024 8/6/2024	1:00PM-2:30PM 8:30AM-1:30PM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 1:00PM-2:30PM 1:00PM-2:30PM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM-10:00AM 8:30AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10:00AM-10	0 4 1 2 4 4 3 3 4 1 1 3 3 4 4 1 5 4 2 5 2 1 1 3	61 85 26 20 19 28 62 62 60 27 47 49 17 50 46 90 1111 88 82 29
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef Jos	Ren Ren Ren Ren Rizzo Rozzia Ryoei Sabol Sabol Sabol Sabol Sam Sang Saraswat Sato Shang Shang Sheng Shi Shi Shi Shi Shi	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-07: Experiments and Analyses - VI 04-07: Experiments and Analyses - VI 04-07: SMRS, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 15-12 06-02 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Control and Monitoring Systems 13-01: Computer Code V&V - I 10-01: Advanced Manufacturing 1 15-05 11-01 Severe Accident Mitigation Strategies 07-09: Simulations and Predictions - I 10-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX 12-04 Risk Assessments and Management - Session 4 02-02: Nuclear Fusic and Maraferials - II 02-15: Generic Topics and Reviews 02-15: Generic Topics	136,299 1382,62 135307 135443 136066 136859 135912 1362,18 1362,32 1362,37 1344,57 1342,7 1342,7 1342,7 1345,7 1345,7 1345,7 1345,7 1345,7 1345,7 1345,7 1356,4 1356,4 1356,6 1356,0 135	8/5/2024 8/7/2024 8/7/2024 8/6/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/6/2024	1:00PM_2:30PM 8:30AM-10:00AM	0 4 1 2 4 4 4 3 3 4 4 4 1 3 3 1 5 5 4 4 2 2 5 2 1 1 1 3 3 4 4	61 85 26 20 19 28 62 62 62 77 47 49 17 50 46 90 1111 88 82 29 107 107
Quanyao Xaoxiao Zhiyuan Francesco Davide Nakasuga Josef Josef Josef Josef Allowiningh Yaodong Sabya Prakash Yuki He Zhengrun Zhenhua Chencheng Haili Jiajian Lei Lei Lei Lei Lingyue	Ren Ren Ren Ren Rizzo Rozzia Ryzia Ryzia Sabol Sabol Sabol Sam Sang Saraswat Sang Saraswat Shang Shang Shi Shi Shi Shi Shi Shi Shi	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRs, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 15-12 06-02: Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Control and Monitoring Systems 13-01: Computer Code V&V - I 10-01: Advanced Manufacturing 1 15-05 11-01: Severe Accident Mitigation Strategies 07-09: Simulations and Predictions - I 01-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX 12-04 Risk Assessments and Management - Session 4 02-02: Nuclear Fuels and Materials - II 02-15: Generic Topics and Reviews 01-10: Nuclear Plant Depration, Modification, Life Extension, Maintenance, and Life Cycle - X 01-10: Nuclear Plant Depration, Modification, Life Extension, Maintenance, and Life Cycle - X	136299 138262 135307 135443 136066 136859 135912 136218 136237 134457 134294 132230 134678 135645 134551 136330 134678 135662 134306 135602 136048 136048 136048	8/5/2024 8/8/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/7/2024 8/6/2024	1:00PM2:30PM 8:30AM-1:30PM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:30PM 1:00PM2:30PM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:30PM 1:00PM2:30PM 1:00PM2:30PM 1:00PM2:30PM 1:00PM2:30PM 1:00PM2:30PM 1:00PM3:30PM 1:00PM3:30PM 1:00PM3:30PM 1:00PM4:30PM 4:45PM6:15PM 4:45PM6:15PM 4:45PM6:15PM 4:45PM6:15PM 4:45PM6:15PM	0 4 1 2 4 4 3 3 4 1 1 3 3 1 1 5 4 2 5 1 1 1 3 4 0	61 85 26 20 19 28 62 62 60 27 47 49 17 50 46 90 1111 88 29 1007 107
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef Lei Lei Lei Lei Lei Chen	Ren Ren Ren Ren Rizzo Rozzia Ryzei Sabol Sabol Sabol Sam Sang Saraswat Sato Shang Shang Shang Shi Shi Shi Shi Shi Shi Shi Shi	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRS, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 20-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 10-02: Waste Packages and Monitoring 20-06: Fabrication, Fuel Cycle, Shielding, Storage - II 10-02: Auction 10-02: Moutear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Control and Monitoring Systems 13-01: Computer Code V&V - I 10-01: Advanced Manufacturing 1 10-19: Moutear Polar Manufacturing 1 15-05 11-01 Severe Accident Mitigation Strategies 07-09: Simulations and Predictions - I 10-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX 12-04 Risk Assessments and Management - Session 4 20-02: Nuclear Fuels and Materials - II 20-15: Generic Topics and Reviews 02-15: Generic Topics and Reviews 01-10: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - X 15-06	136,299 1382,62 135307 135443 1360,66 136859 135912 136218 136232 136237 134457 134294 133230 134678 135645 134551 136330 13560 13560 13560 13560 13560 13560 13560 135636	8/5/2024 8/7/2024 8/7/2024 8/6/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/7/2024 8/6/2024	1:00PM-2:30PM 8:30AM-10:00AM	0 4 1 2 4 4 4 3 3 4 1 1 5 4 2 5 2 1 1 3 4 0 3	61 85 26 20 19 28 62 62 62 67 47 49 117 50 46 90 1111 88 82 29 107 107 107 72
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef Josef Josef Josef Alloware Josef Alloware Josef Alloware Zhengrun Zhenhua Chencheng Halli Jiajian Lei Lei Lei Lingyue Chen Oksana	Ren Ren Ren Ren Rizzo Rozzia Ryzei Sabol Sabol Sabol Samg Saraswat Saraswat Shang Shang Shi	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRs, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 15-12 06-02: Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Control and Monitoring Systems 13-01: Computer Code V&V - I 10-01: Advanced Manufacturing 1 15-05 11-01: Sewere Accident Mitigation Strategies 07-09: Simulations and Predictions - I 01-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX 12-04: Risk Assessments and Management - Session 4 02-02: Nuclear Fuels and Materials - II 02-15: Generic Topics and Reviews 02-15: Generic Topics and Reviews 01-10: Nuclear Plant Deration, Modification, Life Extension, Maintenance, and Life Cycle - X 15-06 10-01: Advanced Manufacturing 1	136299 138262 135307 135443 136066 136859 135912 136218 136237 134457 134294 132230 134678 135230 134678 1355645 134551 136330 135662 134306 135602 136022 136048 136536 134653 134653 134653	8/5/2024 8/8/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/6/2024	1:00PM2:30PM 8:30AM-1:00DM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:30PM 1:00PM2:30PM 8:30AM-1:200PM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:20PM 1:00PM2:30PM 1:00PM2:30PM 1:00PM2:30PM 1:00PM2:30PM 1:00PM3:30PM 1:00PM3:30PM 1:00PM3:30PM 1:00PM3:30PM 1:00PM3:30PM 1:00PM3:30PM 1:00PM3:30PM 1:00PM3:30PM 8:30AM-1:50PM 8:30AM-1:5PM	0 4 1 2 4 4 3 3 4 4 4 1 3 3 1 5 5 4 2 5 5 2 1 1 1 3 3 4 4 0 0 3 3 2 2	61 85 26 20 19 28 62 62 60 27 47 49 90 1111 181 82 29 107 107 72 58
Quanyao Xaoxiao Zhiyuan Francesco Davide Nakasuga Josef Josef Josef Rohunsingh Yaodong Satya Prakash Yuki He Zhengrun Zhenhua Chencheng Haili Jiajian Lei Lei Lei Lingyue Chen Oksana Nobuyuki	Ren Ren Ren Ren Ren Rizzo Rozzia Rycei Sabol Sabol Sabol Sam Sang Saraswat Sato Shang Shang Shang Shi	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRS, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 15-12 06-02: Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Computer Code V&V - I 10-01: Advanced Manufacturing 1 15-05 11-01: Severe Accident Mitigation Strategies 07-09: Simulations and Predictions - I 01-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX 12-04: Risk Assessments and Materials - II 02-15: Generic Topics and Reviews 02-15: Generic Topics and Previews 01-10: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - X 15-06 10-01: Advanced Manufacturing 1 01-10: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - X 15-06	136299 138262 135307 135443 136066 136859 135912 136218 136232 136237 134457 134294 133230 134678 135645 134551 136330 135662 134306 135560 135602 136048 136048 136361 134633 134633 134643 135560 135560 135560 136048 136361 13	8/5/2024 8/8/2024 8/7/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/6/2024	1:00PM-2:30PM 8:30AM-1:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 8:30AM-10:00AM 1:00PM-2:30PM 1:00PM-2:30PM 8:30AM-10:00AM	0 4 1 2 4 4 3 3 4 1 1 5 4 2 5 2 1 1 3 4 0 3 2 4	61 85 26 20 19 28 62 62 60 27 77 49 17 50 46 90 1111 88 82 29 107 107 72 58 17
Quanyao Xiaoxiao Zhiyuan Francesco Davide Nakasuga Josef Josef Josef Josef Alloware Josef Alloware Josef Alloware Zhengrun Zhenhua Chencheng Halli Jiajian Lei Lei Lei Lingyue Chen Oksana	Ren Ren Ren Ren Rizzo Rozzia Ryzei Sabol Sabol Sabol Samg Saraswat Saraswat Shang Shang Shi	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 07-07: Experiments and Analyses - VI 04-13: SMRs, Advanced Reactors, and Fusion 10-02 Advanced Manufacturing 2 09-01: Waste Treatment and Decontamination 07-22: Thermal-Hydraulics Research and Applications - III 09-02: Waste Packages and Monitoring 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 15-12 06-02: Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2 03-01: Control and Monitoring Systems 13-01: Computer Code V&V - I 10-01: Advanced Manufacturing 1 15-05 11-01: Sewere Accident Mitigation Strategies 07-09: Simulations and Predictions - I 01-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX 12-04: Risk Assessments and Management - Session 4 02-02: Nuclear Fuels and Materials - II 02-15: Generic Topics and Reviews 02-15: Generic Topics and Reviews 01-10: Nuclear Plant Deration, Modification, Life Extension, Maintenance, and Life Cycle - X 15-06 10-01: Advanced Manufacturing 1	136299 138262 135307 135443 136066 136859 135912 136218 136237 134457 134294 132230 134678 135230 134678 1355645 134551 136330 135662 134306 135602 136022 136048 136536 134653 134653 134653	8/5/2024 8/8/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/6/2024	1:00PM2:30PM 8:30AM-1:00DM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:30PM 1:00PM2:30PM 8:30AM-1:200PM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:000AM 8:30AM-1:20PM 1:00PM2:30PM 1:00PM2:30PM 1:00PM2:30PM 1:00PM2:30PM 1:00PM3:30PM 1:00PM3:30PM 1:00PM3:30PM 1:00PM3:30PM 1:00PM3:30PM 1:00PM3:30PM 1:00PM3:30PM 1:00PM3:30PM 8:30AM-1:50PM 8:30AM-1:5PM	0 4 1 2 4 4 3 3 4 4 4 1 3 3 1 5 5 4 2 5 5 2 1 1 1 3 3 4 4 0 0 3 3 2 2	61 85 26 20 19 28 62 62 60 27 47 49 90 1111 181 82 29 107 107 72 58





Broderick	Sieh	15-09	135269	8/7/2024	8:30AM-10:00AM	0	59
Broderick	Sieh	07-15: Single and Multi-Phase Flow - II	135710	8/7/2024	3:00PM-4:30PM	4	67
De-En	Song	15-13	139314	8/6/2024	1:00PM-2:30PM	3	44
Meihui	Song	04-05: SMRs, Advanced Reactors, and Fusion	133271	8/7/2024	4:45PM-6:15PM	1	78
Meiqi	Song	07-16: Heat Transfer - I	130237	8/7/2024	4:45PM-6:15PM	1	74
Yu		07-03: Experiments and Analyses - II	134990	8/5/2024	4:45PM-6:15PM	1	35
	Song					1	27
Pietro	Stefanini	07-02: Experiments and Analyses - I	133058	8/5/2024	3:00PM-4:30PM	0	95
Vladimir	Stevanovic	08-11: Computational Fluid Dynamics (CFD) and Applications - XI	136496	8/8/2024	10:30AM-12:00PM		
Vladimir	Stevanovic	15-13	136502	8/6/2024	1:00PM-2:30PM	1	44
Jincheng	Su	04-01: SMRs, Advanced Reactors, and Fusion	135851	8/5/2024	1:00PM-2:30PM	4	22
Yang	Su	07-14: Single and Multi-Phase Flow - I	132493	8/7/2024	3:00PM-4:30PM	4	66
Yuqing	Su	07-02: Experiments and Analyses - I	133890	8/5/2024	3:00PM-4:30PM	4	
Ayumu	Sugiura	15-04	133764	8/6/2024	1:00PM-2:30PM	0	41
Mohamedelmogtabh		04-04: SMRs, Advanced Reactors and Fusion	136084	8/7/2024	3:00PM-4:30PM	3	
Mohamedelmogtabh		05-01: Probabalistic Safety and Risk Assessment	135943	8/5/2024	1:00PM-2:30PM	4	24
John	Sulley	10-03: Advanced Manufacturing 3	136240	8/5/2024	4:45PM-6:15PM	2	35
						3	33
Qian	Sum	10-03: Advanced Manufacturing 3	136504	8/5/2024	4:45PM-6:15PM		
Hetao	Sun	01-06: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VI	135371	8/8/2024	8:30AM-10:00AM	4	89
Junshuai	Sun	08-07: Computational Fluid Dynamics (CFD) and Applications - VII	135476	8/8/2024	3:00PM-4:30PM	1	102
Qian	Sun	05-02: Nuclear Safety and Emergency Preparedness	134287	8/5/2024	3:00PM-4:30PM	1	32
Yixiong	Sun	08-08: Computational Fluid Dynamics (CFD) and Applications - VIII	135739	8/8/2024	4:45PM-6:15PM	5	111
Yuchen	Sun	08-06: Computational Fluid Dynamics (CFD) and Applications - VI	135291	8/8/2024	10:30AM-12:00PM	0	94
Zhiyuan	Sun	07-11: Simulations and Predictions - III	135117	8/8/2024	3:00PM-4:30PM	0	98
Sohaib	Syed	09-04: Radiation Shielding	133409	8/5/2024	1:00PM-2:30PM	2	21
Satoshi	Takeda	02-10: Physics and Transport Theory - II	130801	8/8/2024	10:30AM-12:00PM	2	92
Satoshi	Takeda		132277	8/8/2024	10:30AM-12:00PM	3	92
		02-10: Physics and Transport Theory - II					
Aramaki	Takuto	15-11	136046	8/6/2024	5:00PM-6:30PM	5	51
Akinori	Tamura	01-10: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - X	132997	8/7/2024	3:00PM-4:30PM	3	72
Во	Tan	02-07: Methods Development, Computational Approaches - I	133656	8/7/2024	3:00PM-4:30PM	1	67
Changbing	Tang	02-11: Structural Evaluation, Performance Assessment, Multiphysics Coupling - I	135696	8/8/2024	3:00PM-4:30PM	2	100
Jiaxuan	Tang	11-02 Severe Accident Mitigation Phenomena	135227	8/6/2024	5:00PM-6:30PM	4	54
Longchang	Tang	07-17: Heat Transfer - II	135498	8/7/2024	4:45PM-6:15PM	3	75
Songsheng	Tang	07-19: Entrainment and Droplet Characteristics	136993	8/8/2024	8:30AM-10:00AM	3	83
Yasuyoshi	Taruta	09-03: Decommissioning	135835	8/5/2024	4:45PM-6:15PM	0	35
		04-13: SMRs, Advanced Reactors, and Fusion				2	85
Nicolas	Tauveron		135501	8/8/2024	8:30AM-10:00AM	_	
Yingnan	Tian	01-01: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - I	130579	8/5/2024	1:00PM-2:30PM	0	24
Yizhi	Tian	08-03: Computational Fluid Dynamics (CFD) and Applications - III	134682	8/5/2024	4:45PM-6:15PM	1	39
Mikio	Tokashiki	02-10: Physics and Transport Theory - II	134116	8/8/2024	10:30AM-12:00PM	4	92
Saeko	Tokuomi	01-07: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VII	135414	8/8/2024	10:30AM-12:00PM	0	96
Bowen	Tu	03-04: Advanced Control Strategies	135073	8/7/2024	3:00PM-4:30PM	1	68
Yanjie	Tuo	01-08: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VIII	135879	8/8/2024	3:00PM-4:30PM	3	105
Yuta	Uchiyama	07-14: Single and Multi-Phase Flow - I	132427	8/7/2024	3:00PM-4:30PM	3	66
Shota	Ueda	07-14: Single and Multi-Phase Flow - I	124804	8/7/2024	3:00PM-4:30PM	0	66
		07-18: Accident Analyses			4:45PM-6:15PM	2	
Atsushi	Ui		134485	8/7/2024			76
Takahiro	Usui	12-02 Risk Assessments and Management - Session 2	134400	8/6/2024	5:00PM-6:30PM	0	56
Timothy	Valentine	13-03: Computer Code V&V - III	136161	8/7/2024	8:30AM-10:00AM	1	64
Tamás	Varju	04-14: SMRs, Advanced Reactors, and Fusion	135760	8/8/2024	10:30AM-12:00PM	0	93
Julius	Venckus	15-03	133301	8/5/2024	4:45PM-6:15PM	1	33
Théo	Vidril	02-13: Structural Evaluation, Performance Assessment, Multiphysics Coupling - III	133060	8/8/2024	10:30AM-12:00PM	1	92
Kodai	Wadayama	12-02 Risk Assessments and Management - Session 2	133049	8/6/2024	5:00PM-6:30PM	1	56
Jiashuang	Wan	04-10: SMRs, Advanced Reactors and Fusion	136749	8/7/2024	3:00PM-4:30PM	1	69
						0	83
Во	Wang	07-19: Entrainment and Droplet Characteristics	132379	8/8/2024	8:30AM-10:00AM		
Во	Wang	07-09: Simulations and Predictions - I	134725	8/8/2024	10:30AM-12:00PM	4	90
Во	Wang	07-10: Simulations and Predictions - II	134726	8/8/2024	3:00PM-4:30PM	0	97
Bo	Wang	07-10: Simulations and Predictions - II	134779	8/8/2024	3:00PM-4:30PM	1	97
Во	Wang	07-10: Simulations and Predictions - II	134788	8/8/2024	3:00PM-4:30PM	2	97
Во	Wang	07-10: Simulations and Predictions - II	134843	8/8/2024	3:00PM-4:30PM	4	98
Во	Wang	15-06	134870	8/7/2024	8:30AM-10:00AM	4	58
Changwu	Wang	05-07: System Performance and Safety Enhancements	136245	8/7/2024	4:45PM-6:15PM	5	80
Dongyang	Wang	05-04: Nuclear Engineering and Safety Analysis	136085	8/8/2024	3:00PM-4:30PM	2	103
						2	69
Hailei	Wang	04-04: SMRs, Advanced Reactors, and Fusion	147500	8/7/2024	3:00PM-4:30PM		
Hailei	Wang	04-03: SMRs, Advanced Reactors, and Fusion	147514	8/5/2024	4:45PM-6:15PM	4	38
He	Wang	05-01: Probabalistic Safety and Risk Assessment	136092	8/5/2024	1:00PM-2:30PM	5	24
Jinghong	Wang	15-11	135753	8/6/2024	5:00PM-6:30PM	2	51
Kailong	Wang	13-03: Computer Code V&V - III	136987	8/7/2024	8:30AM-10:00AM	4	65
Mengxi	Wang	04-02: SMRs, Advanced Reactors, and Fusion	134526	8/5/2024	3:00PM-4:30PM	2	30
Mengyi	Wang	11-03 Core Melt Issues	135101	8/8/2024	4:45PM-6:15PM	2	108
Ning	Wang	05-07: System Performance and Safety Enhancements	135031	8/7/2024	4:45PM-6:15PM	2	29
Pengyi	Wang	02-05: Fabrication, Fuel Cycle, Shielding, Storage - I	136263	8/6/2024	5:00PM-6:30PM	4	54
Ping	Wang	04-13: SMRs, Advanced Reactors, and Fusion	130730	8/8/2024	8:30AM-10:00AM	0	85
		04-01: SMRs, Advanced Reactors and Fusion	132055	8/5/2024	1:00PM-2:30PM	3	22
Ping	Wang					1	78
Qi	Wang	04-11: SMRs, Advanced Reactors, and Fusion	136988	8/7/2024	4:45PM-6:15PM		
Ruohao	Wang	07-03: Experiments and Analyses - II	134836	8/5/2024	4:45PM-6:15PM	0	35
Shaojie	Wang	01-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX	136045	8/8/2024	4:45PM-6:15PM	1	111
Shidi	Wang	04-02: SMRs, Advanced Reactors and Fusion	134519	8/5/2024	3:00PM-4:30PM	5	31
Shixian	Wang	15-01	124786	8/5/2024	1:00PM-2:30PM	0	18
Sipeng	Wang	08-07: Computational Fluid Dynamics (CFD) and Applications - VII	135505	8/8/2024	3:00PM-4:30PM	2	102
Songzhe	Wang	04-10: SMRs, Advanced Reactors, and Fusion	135088	8/7/2024	3:00PM-4:30PM	5	70
Suhao	Wang	04-10: SMRs, Advanced Reactors and Fusion	133679	8/7/2024	3:00PM-4:30PM	2	69
Weishuai	Wang	09-07: Radiation and Physical Transport Studies	133398	8/6/2024	1:00PM-2:30PM	0	44
Weixiang		15-07	135068	8/6/2024	1:00PM-2:30PM	5	43
	Wang						
Wenyi	Wang	05-05: Radiation Science and Nuclear Materials	132181	8/8/2024	3:00PM-4:30PM	2	104
Xiang	Wang	07-11: Simulations and Predictions - III	135256	8/8/2024	3:00PM-4:30PM	3	98
Xiang	Wang	02-08: Methods Development, Computational Approaches - II	135263	8/7/2024	4:45PM-6:15PM	0	76
Xiang	Wang	02-07: Methods Development, Computational Approaches - I	137072	8/7/2024	3:00PM-4:30PM	0	67
Xiaowen	Wang	07-17: Heat Transfer - II	136312	8/7/2024	4:45PM-6:15PM	5	75
Xin	Wang	04-04: SMRs, Advanced Reactors, and Fusion	130713	8/7/2024	3:00PM-4:30PM	0	68
Xin	Wang	12-02 Risk Assessments and Management - Session 2	134815	8/6/2024	5:00PM-6:30PM	2	56
Yanlu	Wang	01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV	134800	8/7/2024	3:00PM-4:30PM	3	72
Yating		15-04. Nuclear Franc Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV	134288	8/6/2024	1:00PM-2:30PM	4	42
	Wang						
Yiwei	Wang	08-06: Computational Fluid Dynamics (CFD) and Applications - VI	135440	8/8/2024	10:30AM-12:00PM	5	94
Yizhen	14/	02-07: Methods Development, Computational Approaches - I	136647	8/7/2024	3:00PM-4:30PM	3	67
	Wang					0	
Yue	Wang	02-04: Nuclear Fuels and Materials - IV	131779	8/6/2024	1:00PM-2:30PM		45
			131779 136009	8/6/2024 8/7/2024	3:00PM-4:30PM	2	45 68
Yue	Wang	02-04: Nuclear Fuels and Materials - IV					
Yue Yulong	Wang Wang Wang	02-04: Nuclear Fuels and Materials - IV 03-04: Advanced Control Strategies	136009	8/7/2024	3:00PM-4:30PM	2	68
Yue Yulong Yuqi Zhaoyang	Wang Wang Wang Wang	02-04: Nuclear Fuels and Materials - IV 03-04: Advanced Control Strategies 07-06: Experiments and Analyses - V 05-07: System Performance and Safety Enhancements	136009 136028 135061	8/7/2024 8/6/2024 8/7/2024	3:00PM-4:30PM 5:00PM-6:30PM 4:45PM-6:15PM	2	68 53
Yue Yulong Yuqi Zhaoyang Zhijian	Wang Wang Wang Wang Wang	02-04: Nuclear Fuels and Materials - IV 03-04: Advanced Control Strategies 07-06: Experiments and Analyses - V 05-07: System Performance and Safety Enhancements 01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III	136009 136028 135061 133255	8/7/2024 8/6/2024 8/7/2024 8/5/2024	3:00PM-4:30PM 5:00PM-6:30PM 4:45PM-6:15PM 4:45PM-6:15PM	2 3 3 0	68 53 79 40
Yue Yulong Yuqi Zhaoyang Zhijian Zhikai	Wang Wang Wang Wang Wang Wang	02-04: Nuclear Fuels and Materials - IV 03-04: Advanced Control Strategies 07-06: Experiments and Analyses - V 05-07: System Performance and Safety Enhancements 01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III 07-17: Heat Transfer - II	136009 136028 135061 133255 135222	8/7/2024 8/6/2024 8/7/2024 8/5/2024 8/7/2024	3:00PM-4:30PM 5:00PM-6:30PM 4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM	2 3 3 0 2	68 53 79 40 75
Yue Yulong Yuqi Zhaoyang Zhijian Zhiikai Zhipeng	Wang Wang Wang Wang Wang Wang Wang	02-04: Nuclear Fuels and Materials - IV 03-04: Advanced Control Strategies 07-06: Experiments and Analyses - V 05-07: System Performance and Safety Enhancements 01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III 07-17: Heat Transfer - II 04-09: SMRs, Advanced Reactors, and Fusion	136009 136028 135061 133255 135222 125424	8/7/2024 8/6/2024 8/7/2024 8/5/2024 8/7/2024 8/8/2024	3:00PM-4:30PM 5:00PM-6:30PM 4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM	2 3 3 0 2	68 53 79 40 75 77
Yue Yulong Yuqi Zhaoyang Zhijian Zhikai	Wang Wang Wang Wang Wang Wang	02-04: Nuclear Fuels and Materials - IV 03-04: Advanced Control Strategies 07-06: Experiments and Analyses - V 05-07: System Performance and Safety Enhancements 01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III 07-17: Heat Transfer - II	136009 136028 135061 133255 135222	8/7/2024 8/6/2024 8/7/2024 8/5/2024 8/7/2024	3:00PM-4:30PM 5:00PM-6:30PM 4:45PM-6:15PM 4:45PM-6:15PM 4:45PM-6:15PM	2 3 3 0 2	68 53 79 40 75





Zixuan Zixuan							
	Wang	05-06: Optimization and Modeling Methods	132046	8/7/2024	3:00PM-4:30PM	1	70
-	Wang	05-06: Optimization and Modeling Methods	132049	8/7/2024	3:00PM-4:30PM	2	71
Zixuan	Wang	13-02: Computer Code V&V - II	135128	8/6/2024	5:00PM-6:30PM	3	57
Feng	Wanxin	05-01: Probabalistic Safety and Risk Assessment	134811	8/5/2024	1:00PM-2:30PM	2	24
Yuezhou	Wei	02-06: Fabrication, Fuel Cycle, Shielding, Storage - II	135590	8/7/2024	8:30AM-10:00AM	0	62
Sarah	Weick	02-04: Nuclear Fuels and Materials - IV	136905	8/6/2024	1:00PM-2:30PM	5	46
Ting	Wen	03-02: Human Factors and Digitization	136549	8/6/2024	5:00PM-6:30PM	4	55
Yuchen	Wen	02-08: Methods Development, Computational Approaches - II	134979	8/7/2024	4:45PM-6:15PM	1	76
Fabian	Wiltschko	07-04: Experiments and Analyses - III	135141	8/6/2024	5:00PM-6:30PM	0	52
Kin Wing	Wong	15-01	130423	8/5/2024	1:00PM-2:30PM	1	18
Steven	Woo	02-12: Structural Evaluation, Performance Assessment, Multiphysics Coupling - II	134649	8/8/2024	4:45PM-6:15PM	1	106
Di	Wu	07-16: Heat Transfer - I	131238	8/7/2024	4:45PM-6:15PM	2	74
Fang	Wu	01-09: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX	136033	8/8/2024	4:45PM-6:15PM	0	111
Han	Wu	07-19: Entrainment and Droplet Characteristics	135611	8/8/2024	8:30AM-10:00AM	2	83
Hexin	Wu	07-02: Experiments and Analyses - I	133590	8/5/2024	3:00PM-4:30PM	2	28
Hongyu	Wu	04-09: SMRs, Advanced Reactors and Fusion	134170	8/8/2024	4:45PM-6:15PM	2	109
Jianhui	Wu	02-05: Fabrication, Fuel Cycle, Shielding, Storage - I	134819	8/6/2024	5:00PM-6:30PM	0	53
Mengjie	Wu	02-04: Nuclear Fuels and Materials - IV	133813	8/6/2024	1:00PM-2:30PM	1	45
Mengqi	Wu	07-09: Simulations and Predictions - I	132744	8/8/2024	10:30AM-12:00PM	0	90
Shifa	Wu	03-04: Advanced Control Strategies	134523	8/7/2024	3:00PM-4:30PM	4	68
Wenqiang	Wu	15-10	135549	8/6/2024	1:00PM-2:30PM	3	43
Ze	Xi	01-01: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - I	131874	8/5/2024	1:00PM-2:30PM	3	25
Binzhuo	Xia	15-12	136135	8/7/2024	8:30AM-10:00AM	2	60
Zihan	Xia	07-17: Heat Transfer - II	135118	8/7/2024	4:45PM-6:15PM	0	75
Liu	Xianying	03-02: Human Factors and Digitization	135876	8/6/2024	5:00PM-6:30PM	3	55
Xingyu	Xiao	12-01 Risk Assessments and Management - Session 1	134226	8/6/2024	1:00PM-2:30PM	4	48
Xingyu	Xiao	15-13	146582	8/6/2024	1:00PM-2:30PM	5	44
Tang	Xiaoxuan	03-03: Reliability and Safety Systems	135993	8/7/2024	8:30AM-10:00AM	4	63
Xiaoyang	Xie	07-08: Numerical Analyses	136171	8/8/2024	8:30AM-10:00AM	3	82
Zhinan	Xie	02-07: Methods Development, Computational Approaches - I	136320	8/7/2024	3:00PM-4:30PM	4	68
Lize	Xing	08-10: Computational Fluid Dynamics (CFD) and Applications - X	136322	8/8/2024	10:30AM-12:00PM	5	95
Mingdi	Xing	08-09: Computational Fluid Dynamics (CFD) and Applications - IX	135878	8/8/2024	8:30AM-10:00AM	2	87
Tianyang	Xing	03-03: Reliability and Safety Systems	135960	8/7/2024	8:30AM-10:00AM	2	63
Qiu	Xinze	15-14	135003	8/8/2024	4:45PM-6:15PM	1	106
Feng	Xiong	08-04: Computational Fluid Dynamics (CFD) and Applications - IV	134963	8/8/2024	4:45PM-6:15PM	1	109
Feng	Xiong	08-05: Computational Fluid Dynamics (CFD) and Applications - V	135113	8/8/2024	8:30AM-10:00AM	3	86
Dongyu	Xu	07-13: SMR and Advanced Reactors - II	136096	8/7/2024	4:45PM-6:15PM	3	73
Haoxiang	Xu	15-11	135744	8/6/2024	5:00PM-6:30PM	1	51
	Xu	08-10: Computational Fluid Dynamics (CFD) and Applications - X	136153	8/8/2024	10:30AM-12:00PM	2	95
Jun						1	87
Lisha	Xu	08-09: Computational Fluid Dynamics (CFD) and Applications - IX	135839	8/8/2024	8:30AM-10:00AM	1	
Man	Xu	01-08: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VIII	135725	8/8/2024	3:00PM-4:30PM	3	105 97
Renyi	Xu	01-07: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VII	135439	8/8/2024	10:30AM-12:00PM 8:30AM-10:00AM	5	
Risheng	Xu	04-13: SMRs, Advanced Reactors, and Fusion	135992	8/8/2024		5	85 47
Tao	Xu	11-01 Severe Accident Mitigation Strategies	139205	8/6/2024	1:00PM-2:30PM	5 4	
Xinsheng	Xu	07-12: SMR and Advanced Reactors - I	134275	8/7/2024	3:00PM-4:30PM		65
Yifan	Xu	07-20: Thermal-Hydraulics Research and Applications - I	132735	8/8/2024	10:30AM-12:00PM	2	91
Yihua	Xu	15-08	135231	8/6/2024	5:00PM-6:30PM	5	51
Yongwang	Xu	07-21: Thermal-Hydraulics Research and Applications - II	135059	8/8/2024	3:00PM-4:30PM	3	99
Youyou	Xu	03-02: Human Factors and Digitization	134820	8/6/2024	5:00PM-6:30PM	1	55
Yuhan	Xu	09-06: Waste Management and Environmental Studies	135471	8/5/2024	4:45PM-6:15PM	2	36
PengChao	Xue	02-08: Methods Development, Computational Approaches - II	135535	8/7/2024	4:45PM-6:15PM	2	76
Hiroki	Yada	01-02: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - II	134552	8/5/2024	3:00PM-4:30PM	4	31
Hideki	Yagihashi	07-09: Simulations and Predictions - I	134596	8/8/2024	10:30AM-12:00PM	3	90
Takeshi							32
	Yamada	08-02: Computational Fluid Dynamics (CFD) and Applications - II	134499	8/5/2024	3:00PM-4:30PM	3	
Gaku	Yamada Yamazaki	08-02: Computational Fluid Dynamics (CFD) and Applications - II 01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III	134463	8/5/2024	3:00PM-4:30PM 4:45PM-6:15PM	3	40
			134463 134621	8/5/2024 8/5/2024		3	40 33
Gaku	Yamazaki	01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III	134463 134621 130623	8/5/2024 8/5/2024 8/7/2024	4:45PM-6:15PM	3 4 5	40 33 62
Gaku Jin Xuesong Zhen	Yamazaki Yan Yan Yan	01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III 05-02: Nuclear Safety and Emergency Preparedness 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 12-04 Risk Assessments and Management - Session 4	134463 134621 130623 136866	8/5/2024 8/5/2024 8/7/2024 8/8/2024	4:45PM-6:15PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM	3 4 5 5	40 33
Gaku Jin Xuesong Zhen Benlin	Yamazaki Yan Yan Yan Yan	01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III 05-02: Nuclear Safety and Emergency Preparedness 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II	134463 134621 130623	8/5/2024 8/5/2024 8/7/2024	4:45PM-6:15PM 3:00PM-4:30PM 8:30AM-10:00AM	3 4 5	40 33 62
Gaku Jin Xuesong Zhen Benlin Paper No. NOT FOI	Yamazaki Yan Yan Yan Yang UND in pdf	01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III 05-02: Nuclear Safety and Emergency Preparedness 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 12-04 Risk Assessments and Management - Session 4 05-01: Probabalistic Safety and Risk Assessment	134463 134621 130623 136866 130632	8/5/2024 8/5/2024 8/7/2024 8/8/2024 8/5/2024	4:45PM-6:15PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 1:00PM-2:30PM	3 4 5 5	40 33 62
Gaku Jin Xuesong Zhen Benlin Paper No. NOT FOI Benlin	Yamazaki Yan Yan Yan Yang BUND in pdf Yang	01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III 05-02: Nuclear Safety and Emergency Preparedness 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 12-04 Risk Assessments and Management - Session 4	134463 134621 130623 136866	8/5/2024 8/5/2024 8/7/2024 8/8/2024	4:45PM-6:15PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM	3 4 5 5	40 33 62
Gaku Jin Xuesong Zhen Benlin Paper No. NOT FOI Benlin Paper No. NOT FOI	Yamazaki Yan Yan Yan Yang BUND in pdf Yang	01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III 05-02: Nuclear Safety and Emergency Preparedness 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 12-04 Risk Assessments and Management - Session 4 05-01: Probabalistic Safety and Risk Assessment	134463 134621 130623 136866 130632	8/5/2024 8/5/2024 8/7/2024 8/8/2024 8/5/2024	4:45PM-6:15PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 1:00PM-2:30PM	3 4 5 5 0	40 33 62 88
Gaku Jin Xuesong Zhen Benlin Paper No. NOT FOI Benlin	Yamazaki Yan Yan Yan Yang BUND in pdf Yang	01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III 05-02: Nuclear Safety and Emergency Preparedness 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 12-04 Risk Assessments and Management - Session 4 05-01: Probabalistic Safety and Risk Assessment 05-02: Nuclear Safety and Emergency Preparedness 04-09: SMRs, Advanced Reactors, and Fusion	134463 134621 130623 136866 130632 132071	8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/5/2024 8/5/2024	4:45PM-6:15PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 1:00PM-2:30PM 3:00PM-4:30PM	3 4 5 5	40 33 62 88
Gaku Jin Xuesong Zhen Benlin Paper No. NOT FOI Benlin Paper No. NOT FOI Chuping Guorui	Yamazaki Yan Yan Yan Yang BUND in pdf Yang BUND in pdf Yang Yang	01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III 05-02: Nuclear Safety and Emergency Preparedness 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 12-04 Risk Assessments and Management - Session 4 05-01: Probabalistic Safety and Risk Assessment 05-02: Nuclear Safety and Emergency Preparedness 04-09: SMRs, Advanced Reactors, and Fusion 15-12	134463 134621 130623 136866 130632 132071 135193 136126	8/5/2024 8/5/2024 8/7/2024 8/8/2024 8/5/2024 8/5/2024 8/8/2024 8/7/2024	4:45PM-6:15PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 1:00PM-2:30PM 3:00PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM	3 4 5 5 0 0	40 33 62 88
Gaku Jin Xuesong Zhen Benlin Paper No. NOT FOI Benlin Paper No. NOT FOI Chuping Guorui Hao	Yamazaki Yan Yan Yan Yang BUND in pdf Yang Yang Yang Yang Yang	01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III 05-02: Nuclear Safety and Emergency Preparedness 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 12-04 Risk Assessments and Management - Session 4 05-01: Probabalistic Safety and Risk Assessment 05-02: Nuclear Safety and Emergency Preparedness 04-09: SMRs, Advanced Reactors, and Fusion	134463 134621 130623 136866 130632 132071	8/5/2024 8/5/2024 8/7/2024 8/7/2024 8/5/2024 8/5/2024	4:45PM-6:15PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 1:00PM-2:30PM 3:00PM-4:30PM	3 4 5 5 0	40 33 62 88
Gaku Jin Xuesong Zhen Benlin Paper No. NOT FOI Benlin Paper No. NOT FOI Chuping Guorui	Yamazaki Yan Yan Yan Yang BUND in pdf Yang Yang Yang Yang Yang	01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III 05-02: Nuclear Safety and Emergency Preparedness 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 12-04 Risk Assessments and Management - Session 4 05-01: Probabalistic Safety and Risk Assessment 05-02: Nuclear Safety and Emergency Preparedness 04-09: SMRs, Advanced Reactors, and Fusion 15-12 11-02 Severe Accident Mitigation Phenomena	134463 134621 130623 136866 130632 132071 135193 136126 136230	8/5/2024 8/5/2024 8/7/2024 8/8/2024 8/5/2024 8/5/2024 8/5/2024 8/7/2024 8/6/2024	4:45PM-6:15PM 3:00PM-4:30PM 8:30AM-10:00AM 8:30AM-10:00AM 1:00PM-2:30PM 3:00PM-4:30PM 4:45PM-6:15PM 8:30AM-10:00AM	3 4 5 5 0 0 0 5 1 2	40 33 62 88 109 59
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Gaku Jin Xuesong Zhen Benlin Paper No. NOT FOI Benlin Paper No. NOT FOI Guorui Hao Guorui Hao Qianye Xiaoliang Zhenlei Yao Zhuang Bin Bin Seda Han Jianming Wen Zhang Jianming Wen Zhang Jianming Wen Zhang Hao Kohel Shichang Kusoh Koshi Jiri Juryang Qiferng Xiaobo	Yamazaki Yan Yan Yan Yan Yan Yang SUND in pdf Yang Yang Yang Yang Yang Yang Yang Yang	01-03: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - III 05-02: Nuclear Safety and Emergency Preparedness 02-06: Fabrication, Fuel Cycle, Shielding, Storage - II 12-04 Risk Assessments and Management - Session 4 05-01: Probabalistic Safety and Risk Assessment 05-02: Nuclear Safety and Emergency Preparedness 04-09: SMRs, Advanced Reactors, and Fusion 15-12 11-02 Severe Accident Mitigation Phenomena 02-02: Nuclear Fuels and Materials - II 07-00: Thormal-Hydraulics Research and Applications - I 02-08: Methods Development, Computational Approaches - II 02-08: Methods Development, Computational Approaches - II 02-09: Methods Development, Computational Approaches - II 02-09: Nuclear Fuels and Materials - IV 03-01: Control and Monitoring Systems 07-20: Thermal-Hydraulics Research and Applications - I 06-01 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 1 02-09: Physics and Transport Theory - I 02-09: Physics and Transport Theory - I 02-09: Nuclear Fuels and Materials - III 02-10: Physics and Transport Theory - I 02-09: Nuclear Fuels and Materials - III 02-10: Physics and Transport Theory - I 03-01: Computer Code V&V - I 04-01: SMRs, Advanced Reactors and Fusion 12-01: Risk Assessments and Management - Session 1 15-07 04-01: SMRs, Advanced Reactors, and Fusion 12-01: Physics and Transport Theory - I 13-03: Computer Code V&V - III 13-03: Computer Code V&V - III 13-03: Computer Code V&V - III 13-04: STANS, Advanced Reactors, and Fusion 06-01 Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IX 03-01: Control and Monitoring Systems 15-04 08-01: Computational Fluid Dynamics (CFD) and Applications - I 02-11: Structural Evaluation, Performance Assessment, Multiphysics Coupling - I 02-15: Structural Evaluation, Performance Assessment, Multiphysics Coupling - I 02-06: Waste Management and Environmental Studies 02-02: Nuclear Fuels and Materials - II 08-01: Computational Fluid Dynamics (CFD) and Applications - I	134463 134621 130623 136866 130632 132071 135193 136126 136230 134744 134432 131880 134576 134167 134364 135393 133419 134304 135114 135393 133419 13410 135163 130479 131784 13439 131784 13439 131784 13439 131780 131784 13439 13509 131270 1	8/5/2024 8/5/2024	4.45PM-6.15PM 8.30AM-1.000AM 8.30AM-1.000AM 8.30AM-1.000AM 8.30AM-1.20PM 4.45PM-6.15PM 8.30AM-1.00AM 5.00PM-4.30PM 1.00PM-2.30PM 10.30AM-1.20PM 10.30AM-1.30PM	3 4 5 5 0 0 5 1 2 3 5 4 2 1 4 4 1 2 2 1 0 0 2 5 4 2 1 0 0 4 4 2 2 3 2 5 5 5 4 5 0	40 33 62 88 88 109 59 91 77 45 47 91 19 84 84 84 59 49 37 37 37 92 20 38 48 43 32 19 1111 47 42 42 23 100 107 83 44 47 47 48 49 1111 47 42 42 23 100 100 100 100 100 100 100 100 100 10
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Dacai	Zhang	04-11: SMRs, Advanced Reactors, and Fusion	135466	8/7/2024	4:45PM-6:15PM	3	79
Haojie	Zhang	06-01 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 1	134375	8/5/2024	1:00PM-2:30PM	3	19
Hengrui	Zhang	02-13: Structural Evaluation, Performance Assessment, Multiphysics Coupling - III	135973	8/8/2024	10:30AM-12:00PM	2	92
Hong	Zhang	15-05	134630	8/6/2024	5:00PM-6:30PM	4	50
Ji	Zhang	15-11	135637	8/6/2024	5:00PM-6:30PM	0	51
Jiahui 	Zhang	07-02: Experiments and Analyses - I	130962	8/5/2024 8/5/2024	3:00PM-4:30PM	0 3	27
Jiarui Iiemin	Zhang	15-01	134437 134745	8/5/2024 8/7/2024	1:00PM-2:30PM 3:00PM-4:30PM	3	18 71
linsong	Zhang Zhang	05-06: Optimization and Modeling Methods 15-03	134745	8/5/2024	4:45PM-6:15PM	3	33
Jirisong Kefan	Zhang	07-10: Simulations and Predictions - II	134988	8/8/2024	3:00PM-4:30PM	5	98
Kefan	Zhang	07-10. Simulations and Fredictions - II	136020	8/7/2024	4:45PM-6:15PM	2	73
Lixuan	Zhang	08-07: Computational Fluid Dynamics (CFD) and Applications - VII	135545	8/8/2024	3:00PM-4:30PM	3	102
Mingqian	Zhang	07-02: Experiments and Analyses - I	132452	8/5/2024	3:00PM-4:30PM	5	28
Naizhe	Zhang	09-03: Decommissioning	135612	8/5/2024	4:45PM-6:15PM	3	36
Qi	Zhang	07-08: Numerical Analyses	133402	8/8/2024	8:30AM-10:00AM	0	82
Qi	Zhang	15-02	134529	8/5/2024	3:00PM-4:30PM	3	25
Qi	Zhang	05-06: Optimization and Modeling Methods	135218	8/7/2024	3:00PM-4:30PM	4	71
Qianping	Zhang	01-04: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - IV	134766	8/7/2024	3:00PM-4:30PM	1	71
Ru	Zhang	15-09	135376	8/7/2024	8:30AM-10:00AM	3	59
Ruibo	Zhang	15-07	134957	8/6/2024	1:00PM-2:30PM	2	42
Ruini	Zhang	08-04: Computational Fluid Dynamics (CFD) and Applications - IV	134985	8/8/2024	4:45PM-6:15PM	4	110
Shiqi	Zhang	01-07: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VII	135651	8/8/2024	10:30AM-12:00PM	5	97
Shucheng	Zhang	12-02 Risk Assessments and Management - Session 2	135092	8/6/2024	5:00PM-6:30PM	4	56
Shuilin	Zhang	02-01: Nuclear Fuels and Materials - I	135483	8/5/2024	1:00PM-2:30PM	2	21
Tian	Zhang	02-12: Structural Evaluation, Performance Assessment, Multiphysics Coupling - II	136107	8/8/2024	4:45PM-6:15PM	2	107
Tianhao	Zhang	05-03: Digitalization and Fault Detection	134965	8/5/2024	4:45PM-6:15PM	2	40
Wei	Zhang	07-04: Experiments and Analyses - III	135404	8/6/2024	5:00PM-6:30PM	4	52
Weihua	Zhang	05-05: Radiation Science and Nuclear Materials	134218	8/8/2024	3:00PM-4:30PM	4	104
Weijian	Zhang	02-03: Nuclear Fuels and Materials - III	132758	8/5/2024	4:45PM-6:15PM	0	37
Xiaoyang	Zhang	08-05: Computational Fluid Dynamics (CFD) and Applications - V	135170	8/8/2024	8:30AM-10:00AM	4	86
Xiuchun	Zhang	01-07: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VII	135415	8/8/2024 8/8/2024	10:30AM-12:00PM 3:00PM-4:30PM	1	96
Xiuchun	Zhang	01-08: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VIII	135724 135052	8/8/2024 8/8/2024	3:00PM-4:30PM 8:30AM-10:00AM	0	105 86
Yangguang Yifan	Zhang	08-05: Computational Fluid Dynamics (CFD) and Applications - V	135052	8/8/2024	3:00PM-4:30PM	4	86 99
Yiming	Zhang Zhang	07-21: Thermal-Hydraulics Research and Applications - II 02-12: Structural Evaluation, Performance Assessment, Multiphysics Coupling - II	133171	8/8/2024	4:45PM-6:15PM	3	107
Yixin	Zhang	15-09	135354	8/7/2024	8:30AM-10:00AM	2	59
Yiyang	Zhang	08-11: Computational Fluid Dynamics (CFD) and Applications - XI	136361	8/8/2024	10:30AM-12:00PM	5	96
Yuanji	Zhang	02-12: Structural Evaluation, Performance Assessment, Multiphysics Coupling - II	134388	8/8/2024	4:45PM-6:15PM	4	107
Yuhao	Zhang	08-08: Computational Fluid Dynamics (CFD) and Applications - VIII	135676	8/8/2024	4:45PM-6:15PM	3	110
Yuhao	Zhang	07-08: Numerical Analyses	136974	8/8/2024	8:30AM-10:00AM	5	83
Yu-Hao	Zhang	07-08: Numerical Analyses	135327	8/8/2024	8:30AM-10:00AM	2	82
Yulong	Zhang	07-05: Experiments and Analyses - IV	135452	8/7/2024	8:30AM-10:00AM	0	60
Zhijiang	Zhang	01-06: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VI	135392	8/8/2024	8:30AM-10:00AM	5	89
Zhipeng	Zhang	15-14	130470	8/8/2024	4:45PM-6:15PM	2	106
Zihao	Zhang	08-04: Computational Fluid Dynamics (CFD) and Applications - IV	134958	8/8/2024	4:45PM-6:15PM	0	109
Houjian	Zhao	08-07: Computational Fluid Dynamics (CFD) and Applications - VII	135583	8/8/2024	3:00PM-4:30PM	4	102
Houjian	Zhao	12-04 Risk Assessments and Management - Session 4	135769	8/8/2024	8:30AM-10:00AM	0	88
Jian	Zhao	15-09	135397	8/7/2024	8:30AM-10:00AM	5	59
Xiaopeng	Zhao	12-03 Risk Assessments and Management - Session 3	135305	8/7/2024	8:30AM-10:00AM	1	63
Xingyu	Zhao	02-07: Methods Development, Computational Approaches - I	133607	8/7/2024	3:00PM-4:30PM	2	67
Wu	Zhendong	03-01: Control and Monitoring Systems	130137	8/6/2024	1:00PM-2:30PM	0	47
Hua	Zheng	06-02 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 2	135279	8/5/2024	3:00PM-4:30PM	2	27
Junzheng	Zheng	05-06: Optimization and Modeling Methods	130816	8/7/2024	3:00PM-4:30PM	0	70
Wang	Zhenlan	07-12: SMR and Advanced Reactors - I	131056	8/7/2024	3:00PM-4:30PM	0	65
Lei	Zhong	07-16: Heat Transfer - I	131657	8/7/2024	4:45PM-6:15PM	3	74
Yubao	Zhong	08-09: Computational Fluid Dynamics (CFD) and Applications - IX	136067	8/8/2024	8:30AM-10:00AM	4	87
Yuntao	Zhong	02-03: Nuclear Fuels and Materials - III	133403	8/5/2024	4:45PM-6:15PM	1	37
Ning	Zhonghao	01-06: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VI	135183	8/8/2024	8:30AM-10:00AM	1 1	88
Jinghua	Zhou	12-01 Risk Assessments and Management - Session 1	132467	8/6/2024 8/8/2024	1:00PM-2:30PM		48
Qi Wen	Zhou Zhou	02-14: Structural Evaluation, Performance Assessment, Multiphysics Coupling - IV 15-03	139495 133410	8/5/2024	3:00PM-4:30PM 4:45PM-6:15PM	3 2	101 33
Yanping	Zhou	06-01 Nuclear Codes, Standards, Licensing, & Regulatory Issues Session 1	133410	8/5/2024	1:00PM=2:30PM	2	19
Yuancheng	Zhou	02-07: Methods Development. Computational Approaches - I	135358	8/7/2024	3:00PM-4:30PM	5	68
Yujia	Zhou	07-12: SMR and Advanced Reactors - I	133714	8/7/2024	3:00PM-4:30PM	2	65
Chaovi	Zhu	04-06: SMRs, Advanced Reactors, and Fusion	130135	8/8/2024	8:30AM-10:00AM	2	81
Di	Zhu	08-10: Computational Fluid Dynamics (CFD) and Applications - X	136177	8/8/2024	10:30AM-12:00PM	3	95
Enping	Zhu	08-05: Computational Fluid Dynamics (CFD) and Applications - V	135080	8/8/2024	8:30AM-10:00AM	2	86
Sheng	Zhu	04-04: SMRs, Advanced Reactors, and Fusion	132001	8/7/2024	3:00PM-4:30PM	1	69
Ye	Zhu	04-01: SMRs, Advanced Reactors, and Fusion	131299	8/5/2024	1:00PM-2:30PM	1	22
Yunlong	Zhu	03-05: Innovations in Nuclear Engineering	136137	8/7/2024	4:45PM-6:15PM	4	77
Ze	Zhu	01-08: Nuclear Plant Operation, Modification, Life Extension, Maintenance, and Life Cycle - VIII	135988	8/8/2024	3:00PM-4:30PM	5	105
Kun	Zhuang	02-13: Structural Evaluation, Performance Assessment, Multiphysics Coupling - III	134828	8/8/2024	10:30AM-12:00PM	4	93
Wenbin	Zou	15-02	133165	8/5/2024	3:00PM-4:30PM	2	25
Liangzhou	Zuo	10-01: Advanced Manufacturing 1	134157	8/5/2024	1:00PM-2:30PM	4	17







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#### **Technical Tracks**

- Track1 Nuclear Plant Operation & Maintenance, Engineering and Modification, Operation Life Extension (OLE), and Life Cycle
- Track2 Nuclear Fuel and Material, Reactor Physics and Transport Theory and Fuel Cycle Technology
- Track3 I&C, Digital Control, and Influence of Human Factors
- Track4 SMRs, Advanced Reactors and Fusion
- Track5 Nuclear Safety, Security, and Cyber Security
- Track6 Nuclear Codes, Standards, Licensing, & Regulatory Issues
- **Track7** Thermal-Hydraulics and related Safety Analysis
- Track8 Computational Fluid Dynamics (CFD) and Applications
- Track9 Decontamination & Decommissioning, Radiation Protection, & Waste Management
- Track10 Advanced Methods of Manufacturing for Nuclear Reactors and Components
- Track11 Mitigation Strategies for Beyond Design Basis Events
- Track12 Innovative and Smart Nuclear Power Plant Design
- **Track13** Risk Assessments and Management
- Track14 Computer Code Verification and Validation
- Track15 Nuclear Education and Public Acceptance
- Track16 Student Paper Competition



