Final Program

PVP 2026

2026 Pressure Vessels & Piping Conference

Celebrating 60 Years of Service to the Pressure Vessels and Piping Industry

July 19 – 24, 2026
Hilton Anaheim
Anaheim, CA, USA

ASME
SETTING THE STANDARD

WELCOME TO PVP 2026

Welcome to Anaheim, CA, USA for the 2026 ASME Pressure Vessels & Piping Conference, where the PVP Division is pleased to return for the first time since 2014. The PVP Conference is known to be the outstanding international technical forum for participants to further their knowledge in a variety of topics related to Pressure Vessels and Piping technologies for the power and process industries. The PVP Conference is a great place to exchange ideas and to meet colleagues from industry and academia as we all work to create and advance Pressure Vessels and Piping technologies for our global community of practice. The PVP Conference is a recognized forum for fruitful exchange of ideas with participants from over 40 countries in Europe, Africa, the Middle East, Asia, the Americas, and the Oceania islands.

The ASME Pressure Vessels & Piping Division is the primary sponsor of this Conference, with additional participation by the ASME Nondestructive Evaluation, Diagnosis and Prognosis Division (NDPD). This year, under the theme "Celebrating 60 Years Of Service To The Pressure Vessels And Piping Industry," the conference has attracted over 430 technical papers and over 80 presentations organized into approximately 165 technical and panel sessions, three Technical Tutorials, an EPRI/AWS Workshop on the Performance of Welds in the Energy Sector, and the Rudy Scavuzzo Student Paper Competition. A collection of Technology Exhibits is also organized as part of our Technical Program.

Technical papers presented in this Conference are separated into tracks, according to their technical areas, and are available immediately prior to the Conference in a downloadable format. The program is published on the conference app, as well as this pdf format version that may be printed by the user if desired.

A key component of every PVP Conference is the opportunity to socialize and make new friends—this year's Conference offers several great possibilities. Enjoy the Tour of the Queen Mary on Monday—the iconic ocean liner docked in Long Beach. Monday evening, we all meet at the Conference-Wide Reception, which will be held in the Pacific/California Foyers on the Ballroom Level (2nd Floor). The Tour of Mission San Juan Capistrano on Tuesday features one of California's most historic and picturesque landmarks. Finally, join your PVP colleagues and their families for an evening at Disneyland Park on Wednesday. Additional details regarding these tours can be found later in this program.

PVP 2026 PROGRAM LAYOUT

	Sunday July 19, 2026	Monday July 20, 2026	Tuesday July 21, 2026	Wednesday July 22, 2026	Thursday July 23, 2026	Friday July 24, 2026
7:00 am 7:45 am	Arrival Registration Opens **(10:00 am – 6:00 pm)**	Authors' Breakfast/Briefing* Registration Open **(7:30 am – 6:00 pm)**	Authors' Breakfast/Briefing* Registration Open **(7:30 am – 4:00 pm)**	Authors' Breakfast/Briefing* Registration Open **(7:30 am – 3:00 pm)**	Authors' Breakfast/Briefing* Registration Open **(7:30 am – 10:00 am)**	Open
8:00 am 9:45 am	**Block 0.1** Technical Tutorial	**Block 1.1** Welcome & Orientation Technology Exhibits	**Block 2.1** Technical Sessions Technology Exhibits	**Block 3.1** Technical Sessions EPRI/AWS Workshop	**Block 4.1** Technical Sessions EPRI/AWS Workshop	**Block 5.1** Hydrogen Study Group
10:15 am 12:00 pm	**Block 0.2** Technical Tutorial **(10:00 am – 11:45 pm)**	**Block 1.2** Plenary Session Technology Exhibits	**Block 2.2** Technical Sessions Technology Exhibits	**Block 3.2** Technical Sessions EPRI/AWS Workshop	**Block 4.2** Technical Sessions EPRI/AWS Workshop	**Block 5.2** Hydrogen Study Group
12:00 pm 1:45 pm	Open	Technical Committee Meetings	Technical Committee Meetings	PVP Division Honors & Awards Luncheon	Open	Open
2:00 pm 3:45 pm	**Block 0.3** Technical Tutorial **(12:45 pm – 2:30 pm)**	**Block 1.3** Technical Sessions Technical Tutorial Technology Exhibits	**Block 2.3** Technical Sessions Technical Tutorial Technology Exhibits	**Block 3.3** Open	**Block 4.3** Technical Sessions EPRI/AWS Workshop Conference General Committee Meeting	**Block 5.3** Hydrogen Study Group
4:15 pm 6:00 pm	**Block 0.4** Technical Tutorial **(2:45 am – 4:00 pm)**	**Block 1.4** Technical Sessions Technical Tutorial Technology Exhibits	**Block 2.4** Technical Sessions Technical Tutorial Technology Exhibits	**Block 3.4** Open	**Block 4.4** Technical Sessions EPRI/AWS Workshop Conference Evaluation	**Block 5.4** Hydrogen Study Group
Evening	Open	Conference-Wide Reception **(6:15 – 8:00 pm)**	Networking Reception **(5:30 – 7:00 pm)**	Open Visit Disney with PVP! (Tickets Required)	Open	Open

* Author's Breakfast/Briefing open to those Presenting Authors on their scheduled day of presentation.

** The Welcome and Orientation Session is geared toward Early Career and first-time conference attendees.

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Sam Y. Zamrik

The ASME Pressure Vessels and Piping Division dedicates the 2026 PVP Conference to the memory of our leader, mentor and friend Dr. Sam Y. Zamrik.

For the entire 60 years of the PVP Division's existence, Sam's leadership, vision, and passion for the mission, core values, and goals of the Division have been instrumental to its success. Sam's influence reached every corner of the world. His guidance, influence and inspiration spurred countless members of the pressure vessels and piping community; students, colleagues, and contemporaries, to achieve excellence in their professional and personal endeavors, and build a strong and thriving community. All the while, Sam treated everyone around him like family, inspiring those of us who worked closely with him to refer to him affectionately as "The Godfather." We take comfort in the knowledge that the strong foundation and guiding principles Sam demonstrated and instilled in us that are core to the Division's success will endure. He truly is, and will always be, our North Star.

In Memorium

Donald S. Griffin was an expert in structural mechanics with Westinghouse Electric Company in the nuclear power field. He was a long time member of the Boiler and Pressure Vessel Code committees, including over 30 years on the BPV III Subgroup in Elevated Temperature Design and over 35 years on the BPV II Subgroup on External Pressure. He served the PVP Division as Communications Chair from 1979-81, was Chair of the 1982 PVP Conference in Orlando, FL, and was Division Chair in 1982-83. For his contributions, he was elected an ASME Fellow in 1980, received the ASME Dedicated Service Award in 1988, and was recipient of the ASME Pressure Vessels and Piping Medal in 1992.

Michael E. Nitzel was a recognized expert in the area of seismic design and was an exceptional leader of the PVP Division. After serving as Chair of the Seismic Engineering Technical Committee, he joined the PVP Division Executive Committee and led the Division to an outstanding conference in Toronto in 2012. He successfully guided the Division through challenging times the following year resulting in another outstanding event. He was an outstanding representative of the Division in interactions with the Society regarding its role in the broader ASME structure, as well as overall conference planning and execution. He was also instrumental in the creation of "What You Should Know" training documents for several key roles within the Division, much of which remains the basis for what is delivered to incoming Division volunteers to this day. For his extraordinary efforts, Mike was elected an ASME Fellow in 2004 and received the ASME Dedicated Service Award in 2014. Finally, Mike was presented with the PVP SS Chen Outstanding Service Award in 2022.

James R. Payne was a highly respected specialist in bolted joint and gasket technology. After retiring from a long and productive career with Exxon, he consulted extensively with clients in the oil industry. He contributed to several important reference texts on bolting and gasket technology and delivered training courses to the public on the subject, including on behalf of ASME. His contributions to standards development included the Sealing Reliability Committee of the Pressure Vessel Research Council, the ASME Post Construction Subcommittee on Flanged Joint Assembly supporting ASME PCC-1, the ASME Special Working Group on Bolted Flange Joints, and the ASTM F03 Committee on Gaskets. He was co-author of 6 Welding Research Council Bulletins on bolted flange joints. Finally, he was a frequent contributor to the PVP Computer Technology and Bolted Joints Technical Committee.

Takayasu Tahara worked over 60 years in the pressure equipment industry. He was the Manager of Engineering in the Pressure Vessel Department of Japan Steel Works, Ltd., a worldwide renowned manufacturer of high-pressure vessels for the petroleum refining and nuclear industries. In his native Japan, he was Principal Engineer for the High Pressure Institute of Japan and served the Japan Welding Engineering Society and Petroleum Association of Japan. He served over 35 years to API Standards committees and was named Honorary Member of the API/ASME Joint Committee on Fitness for Service. He also served over 20 years to ASME Boiler & Pressure Vessel Code and Post Construction Standards Committees. He was a frequent contributor to the PVP Operations, Applications and Components Technical Committee and authored over 40 technical papers to organizations including PVP, JPVT, ICPVT and WRC. He was elected an ASME Fellow in 2010.

THE ASME PRESSURE VESSELS AND PIPING DIVISION
60 Years of Cutting Edge Research

The 2026 Pressure Vessels & Piping Conference marks the 60th Anniversary of the Pressure Vessels & Piping (PVP) Division. The Division's rich history began with the Pressure Vessel Research Committee (PVRC), which was the research arm of ASME. The PVRC united the most experienced members in the design and manufacture of pressure vessels, valves and pumps; and sponsored research programs on thin and thick shell vessels with the cooperation of the Atomic Energy Commission (AEC) and other organizations as early as 1958. Among several institutions that participated in the program, Pennsylvania State University dealt with stress analysis of pressure vessels with nozzle inserts with different types of reinforcement pads under combined loading. Donald E. Hardenbergh and Sam Y. Zamrik published their results in WRC Bulletin Nos. 89 and 96 in 1963 and 1964. Contributions to this work were also made by Charles E. Taylor at the University of Illinois using photoelasticity stress analysis, and Everett O. Waters at Yale University using computational analysis. In view of the growing interest in pressure vessel technology and research results, Frank S.G. Williams from Taylor Forge, who was a very active member, spearheaded an organizational meeting at the 1965 ASME Winter Annual Meeting (WAM) in Chicago to form a division dedicated to all technical aspects of pressure vessels and piping. Recommendations were made by Frank S.G. Williams and Dana Young to create the Pressure Vessels and Piping Division. The recommendation passed unanimously, and Dana Young was named the first Division Chair on April 13, 1966.

The PVP Division evolved from a small Division with four Technical Committees to the robust Division it is today with nine Technical Committees and a strong, vital and international membership. The Division leadership in the early years had possessed a global vision: to represent an international membership with industry experts involved in the Division growth. To ensure the achievement of their vision, PVPD leadership established a Mission, Vision, and Core Values to build upon:

- **The Mission** is to serve the pressure vessels and piping community by promoting, sharing, and disseminating state of the art pressure vessels, piping and related technologies, and providing personal and professional development opportunities.
- **The Vision** is to be the preeminent source of knowledge for pressure vessels, piping and related technologies.
- **The Core Values** are to embrace integrity and ethical conduct and to provide a welcoming climate for a diverse global community of students and engineers to foster creativity, innovation, and intellectual growth.

To disseminate its mission, global conferences were organized to bring the technical community together and to exchange the technology development in the pressure vessels industry. The continued success of PVP Conferences is due to the dedication of our volunteers and the support of their companies.

ASME is truly an international organization, and the PVP Division is an appropriate reflection of this worldwide reach. From 1991 to 2000, the number of contributors from outside of North America grew from approximately one-third to more than two-thirds. Our annual conferences continually host attendees from 35 to 42 different countries representing all regions of the globe. The technical content and the quality of PVP Conference sessions have benefited considerably from overseas participation.

To encourage students' active participation in the annual PVP Conference, the Rudy Scavuzzo Student Paper Competition is organized. The PVP Division encourages students and early-career engineers to get involved with the Conference and the Division. PVP Conference attendees are also encouraged to include their spouses in their conference travel plans. This provides and promotes a welcoming atmosphere that further develops friendship, broadens relationships and extends interaction and networking. Our PVPD Senate Operations Committee (and spouses) actively participate in creating and maintaining the "PVP Family" atmosphere that makes our social events successful. The PVP Division is ever grateful for their unwavering commitment.

The American Society of Mechanical Engineers
Pressure Vessels & Piping Division

PVP 2026 Conference Committees

David J Gross
Conference Chair

Kannan Subramanian
Technical Program Chair

Douglas A Scarth
Conference Advisor

Clay D Rodery
Conference Operations Advisor

PVP Technical Program Representatives

Advanced Energy	Xian-Kui Zhu
	Hyun Jo Jun
Codes & Standards	Suresh Kalyanam
	Thomas Damiani
Computer Technology & Bolted Joints	Carlos Girão
	Jeff Wilson
Design & Analysis	M. Kevin Mandeville Jr.
	Ali Ok
Fluid-Structure Interaction	Joaquin Moran
	Scott Lang
High-Pressure Technology	Megan Tribble
	Sreelatha Kilambi
Materials & Fabrication	Jessica Lam
	Yanli Wang
Operations, Applications & Components	Mike Weber
	Junya Takahashi
Seismic Engineering	Gianluca Quinci
	Jinsuo Nie
ASME NDPD Division	Vivek Agarwal
	Min Zhang

PVP Division Management Committee (2025-2026)

Clay D. Rodery	Chair
David J Gross	Vice Chair
Kannan Subramanian	Honors & Awards Chair
Alton Reich	Communications Chair
Haiyang Qian	Incoming Honors & Awards Chair

PVP Senate of Past Division Chairs

Yasumasa Shoji	2024–25
Clay D. Rodery	2023–24
Andrew J. Duncan	2022–23
Matthew R. Feldman	2021–22
Trevor G. Seipp	2020–21
Hakim A. Bouzid	2019–20
Pierre Mertiny	2018–19
Maher Y.A. Younan	2017–18
Douglas A. Scarth	2016–17
Marina B. Ruggles-Wrenn	2015–16
Daniel T. Peters	2014–15
Michael E. Nitzel*	2012–14
Ronald S. Hafner*	2011–12
Young W. Kwon	2010–11
Luc H. Geraets*	2009–10
Artin A. Dermenjian	2008–09
James F. Cory, Jr.	2007–08
Judith A. Todd	2006–07
M. K. Au-Yang*	2005–06
Ismail T. Kisisel	2004–05
William J. Bees	2003–04
Howard H. Chung	2002–03
Joseph Sinnappan	2001–02
A. G. (Jack) Ware	2000–01
Robert F. Sammataro*	1999–00
Thou-Han Liu*	1998–99
William E. Short, II	1997–98
Richard C. Gwaltney*	1996–97
Shoei-Sheng Chen*	1995–96
Greg L. Hollinger	1994–95
Carl E. Jaske	1993–94
Rudy J. Scavuzzo*	1992–93
Sam Y. Zamrik*	1991–92
G. E. Otto Widera*	1990–91
Robert H. Mallett*	1989–90
Robert W. Swindeman	1988–89
Alexander H. C. Marr	1987–88
Jeffrey T. Fong	1986–87
Don B. Van Fossen	1985–86
James R. Farr*	1984–85
Charles F. Nash	1983–84
Donald S. Griffin*	1982–83
Richard H. Gallagher*	1981–82
L. Eugene Hulbert*	1980–81
Robert E. Nickell*	1979–80
Roger F. Reedy*	1978–79
David H. C. Pai*	1977–78
Pedro V. Marcal	1976–77
Harold H. Waite*	1975–76
Robert L. Cloud*	1974–75
Charles V. Moore	1973–74
Irwin Berman*	1972–73
Danos Kallas*	1971–72
Robert J. Cepluch*	1970–71
Charles F. Larson	1969–70
Gunther P. Eschenbrenner*	1968–69
Vito L. Salerno*	1967–68
Dana Young*	1966–67

*Deceased

PVP Division Technical Committee Chairs

Advanced Energy	Shane Finneran
Codes & Standards	Valéry Lacroix
Computer Technology & Bolted Joints	Anita Bausman
Design & Analysis	Nathan Barkley
Fluid-Structure Interaction	Atef Mohany
High-Pressure Technology	Kumarswamy Karpanan
Materials & Fabrication	Mo Uddin
Operations, Applications & Components	Taichi Matsuoka
Seismic Engineering	Osamu Furuya

PVP Division Administrative Committee Chairs

Membership & Engagement Chair	Vacant
Website & PVPD Newsletter Editor	Alton Reich
International Coordination	Hubert LeJeune

ASME Journal of Pressure Vessel Technology

Editor	Spyros A. Karamanos

ASME President

Janis Terpenny	2026-2027

ASME Staff

Executive Director/CEO	Thomas Costabile
Senior Manager, TEC Operations	Jamie Hart
Manager, Conferences and Events	Kim Miceli
Coordinator, Conferences and Events	Danielle Rojas
Manager, Conference E-Tools	Mark Avila

WELCOME and ORIENTATION

A welcome and orientation session will be held on Monday, July 20th at 8:00 am in California Ballroom C. Attendees will be introduced to how the conference is organized into technical sessions, tutorials and workshops, technology exhibits, technical committee meetings, as well as the various networking and social events. The Schedule at a Glance (SAAG) will be explained which, along with the Daily Session Listing, will help attendees to determine which presentations best fit their specific interests. Suggestions will be offered to assist attendees to make the most out of their PVP experience. Attendees will be given the opportunity to ask questions to get a better understanding and equip them for making their PVP experience a success from a personal and professional perspective.

OPENING CEREMONY and PLENARY SESSION

Celebrating 60 Years of Service to the Pressure Vessels and Piping Industry

The Conference opens in California Ballroom C on Monday, July 20th at 10:15 am. Representatives of the PVP Division Leadership Team will welcome the attendees. The first plenary presentation will be delivered by Dr. Nawal Prinja of Prinja and Partners, Limited. The second plenary presentation will be delivered by Maury Pressburger, Director of Nuclear Siting at Sargent & Lundy.

Plenary Speaker

Prof. Nawal Prinja
Prinja and Partners, Limited, Gatley, United Kingdom

Smart Engineering: AI for Design, Compliance, and Safety Assurance

This presentation examines how artificial intelligence (AI) is transforming engineering practice in safety-critical industries. It highlights the increasing complexity of design codes, regulatory requirements, and lifecycle knowledge management, and argues that traditional document-based approaches, particularly static PDFs, are no longer sufficient.

The concept of machine-readable standards is introduced as a foundational enabler for AI-driven engineering. By structuring codes and standards into interoperable, clause level data, engineers can achieve real-time compliance verification, enhanced traceability, and seamless integration with digital twins and model-based systems engineering frameworks.

Practical applications of AI are discussed, including automated requirements extraction, intelligent code compliance checking, change impact analysis, and AI assisted development of safety cases. The role of cognitive search and retrieval augmented generation (RAG) in delivering trustworthy and traceable insights is also examined. Furthermore, the presentation outlines key innovations required to develop knowledge graphs that support informed decision-making in critical engineering contexts.

The presentation concludes with a call for standards organizations to lead the transition from document-centric practices to data-driven, AI-enabled engineering.

Plenary Speaker

Maury A. Pressburger
Director, Nuclear Siting, Sargent & Lundy
Chicago, IL, USA

Advanced Reactors: The Nuclear Industry Landscape and the Expansion of Data Centers/AI Computing and Power Needs

The United States is home to the world's largest data center market and the leading global cloud service providers, including Alphabet (Google), Amazon, Meta (Facebook), and Microsoft. As technology companies pursue aggressive AI buildouts, they are seeking innovative ways to meet their energy demands. Nuclear power has thus entered the conversation as one of the few energy sources capable of delivering the kind of firm, high-density electricity that data centers need while simultaneously allowing companies to maintain public climate commitments.

The presentation will overview the Executive Orders driving the nuclear industry, current/planned Advanced Reactor projects, both domestically and internationally, initiatives to advance the nuclear industry, progress made with technology and licensing, and data center and power demand projections, as well as challenges facing ASME and the industry in our “second nuclear renaissance”.

Coffee Breaks and Refreshments

Coffee and refreshments are available throughout the week in the Pacific and California Foyers on the 2nd floor ballroom level. This hub of activity features exhibit booths and coffee breaks. Additionally, posters submitted from registrants as well as the finalists of the Rudy Scavuzzo Student Paper Competition will be on display.

HONORS and AWARDS ASSEMBLY

The ASME PVP Division Honors and Awards Assembly and Luncheon, during which Division and selected ASME Society awards are presented, will be held on Wednesday, July 22nd, from 12:00 pm until 2:00 pm, in California Ballroom CD. The top PVP Division award, the ASME S. Y. Zamrik PVP Medal, will be presented to Dr. Gery Wilkowski.

ASME S. Y. Zamrik PVP Medal Recipient

Dr. Gery Wilkowski

Columbus, Ohio, USA

Dr. Gery Wilkowski graduated in Mechanical Engineering in 1973 at the University of Michigan, and completed his Master's in Mechanical Engineering in 1974 at the University of Michigan. He obtained his Ph.D. degree in Nuclear Engineering in 1988 at the University of Tokyo, Japan. At the time, Dr. Wilkowski was the first U.S. citizen to obtain a Ph.D. from the University of Tokyo Engineering College through their Visiting Scholar program. During the spring and summer of 1973, he worked at Westinghouse Electric Company conducting finite element analyses of fatigue and vibration failures. He started his professional engineering career in 1974 at Batelle Columbus where he was a Research Leader for Pressure Boundary Integrity until 1998. He founded the Engineering Mechanics Corporation of Columbus in 1998 and continues to contribute there in various leadership roles. Dr. Wilkowski has been responsible for managing, conducting experimental research, and analyzing the fracture behavior of piping and pressure vessels since 1974.

Dr. Wilkowski is a globally respected expert in mechanical engineering and structural integrity, known for pioneering work that has significantly enhanced the safety and efficiency of nuclear power plants and oil and gas infrastructure. His contributions include developing leak-before-break methodologies for the U.S. Nuclear Regulatory Commission (NRC), creating fracture mechanics models for complex systems, and innovating testing techniques for pipelines carrying volatile materials. He has led numerous fracture control and integrity assessments across a wide range of energy systems, including reactor heads, steam generators, cryogenic storage containers, natural gas/ hydrogen/CO2 pipelines, making him a sought-after consultant in the field.

His impact is reflected in over 400 technical publications and extensive service on industry committees and peer review panels, including roles with the Department of Energy, Department of Transportation, US Nuclear Regulatory Commission, and ASME. Dr. Wilkowski received the Lifetime Achievement Award in 2022 and has trained professionals worldwide in fracture mechanics and code applications. He has also worked with other conferences such as SMiRT, ASME International Pipeline Conference, pipeline industry conferences, etc. Remarkably, he accomplished these feats while founding and growing Engineering Mechanics Corporation of Columbus (Emc2), mentoring a new generation of engineers, and steering the company through challenging times with hands-on leadership.

In his role as both an editor and reviewer, Dr. Wilkowski has been contributing to editorial boards of scientific journals and conferences. For example, he served as an Associate Editor of the ASME Journal of Pressure Vessel Technology, Guest Editor for the Nuclear Engineering and Design Journal, and served as an editor for the International Journal of Pressure Vessels and Piping. He also developed 15 conference proceeding/special publications (ASME and US NRC).

Dr. Wilkowski has been contributing to the development of Codes and Standards since the mid-1980's. He has been serving as a member of various task, working, and subgroups of the ASME Section XI Code; being the secretary of the Working Group on Pipe Flaw Evaluations for ~30 years. He served in various peer review groups for DOE and NRC and was an expert reviewer for the CANDU fitness-for-purpose guidelines. He was a past member of the ASTM E-24 Fracture Committee, and contributor to API standards.

Dr. Wilkowski has been publishing consistently at the ASME PVP Conference since 1980 and served as an organizer for the ASME PVP Division for several decades. He served as Materials & Fabrications Technical Committee Chair and Vice-Chair and served as the Vice-Chair of the Operations, Applications, and Components Technical Committee. Dr. Wilkowski has been giving highly attended Tutorials in his expertise area of fracture mechanics. Two such tutorials were featured in the 2018 and 2022 PVP conferences. Dr. Wilkowski, through the years of his contribution to PVP Division, showed clear vision in the growth of the Division. These are testaments to his significant contributions to ASME.

TUTORIALS

Tutorials offer both the experienced and early career engineers excellent opportunities to refresh their knowledge and to venture into specific technical areas outside their expertise. Admission to the tutorials is free for Conference Registrants.

Technical Tutorials: These tutorials are approximately four hours in length. Technical Tutorials fill two consecutive Conference session blocks and are integrated into the Conference session schedule. The Technical Tutorial notes will be available in electronic format.

Each attendee will receive a Certificate of Attendance, as proof that the attendee has participated in the Special Tutorial, or the Technical Tutorial.

PVP Division will not assign Continuing Education Units (CEUs) on these certificates. However, attendees may negotiate CEU credits with their respective licensing boards.

Outlines of the tutorials for the 2026 PVP Conference are presented below.

TECHNICAL TUTORIALS

Intro to ASME Section VIII, Division 2, Part 5 – Design By Analysis

Trevor Seipp, Becht

Sunday, July 19, 8:00 am – 4:00 pm

Pacific A (Ballroom Level, 2nd floor)

Design By Analysis to ASME Section VIII, Division 2, Part 5 is becoming more and more a part of everyday engineers' work. But do you really know what to do and how to properly perform such analyses? In this full day special technical tutorial, we examine the technical approaches contained in Part 5. We start with the philosophical approach that Part 5 has introduced into Design By Analysis, and then we walk through the various failure modes: Plastic Collapse, Local Failure, Buckling, Ratcheting, Fatigue, and Creep. Tutorial attendees will be introduced to each of the failure modes, as well as the analytical methods to demonstrate that an adequate margin is demonstrated to protect against the failure modes.

This is a full-day tutorial, on Sunday before the conference in 4 blocks:

- TW-01-01: 8:00 am-9:45 am
- TW-01-02: 10:00 am-11:45 am
- TW-01-03: 12:45 pm-2:30 pm, and
- TW-01-04: 2:45 pm-4:00 pm

Structural Dynamics for Extreme Loading Events of Vessels and Piping

Robert Valdiviez, Applied Mechanics Engineering; Jihui Geng, BakerRisk; Megan Tribble, Sandia National Laboratories; John Ludwigsen, Sandia National Laboratories; Joshem Gibson, Los Alamos National Laboratory; and Matt Edel, BakerRisk

Monday, July 20, 2:00 pm – 3:45 pm (Part 1), and 4:15 pm – 6:00 pm (Part 2)

Pacific A (Ballroom Level, 2nd floor)

This tutorial is intended to provide engineers involved with the design, maintenance, certification, and/or management of capital assets with an understanding of the structural dynamic aspects that come to bear during

extreme loading events. Extreme loading events, either intentional or unintentional, can be explosive detonation, large deflagration with or without a transition to detonation, boiling liquid expanding vapor explosion (BLEVE), high-speed impact from foreign projectiles, and high-speed impact of system components into each other, for example. Almost any type of loading event that imposes unusually high strain rates on the component's materials of construction is of interest.

Topics Outline:

Introduction

A. Fundamental Aspects of Structural Dynamics for Vessels and Piping

B. Impulse and Short-Pulse Loading of Structures

C. Vessel and Piping General Design Considerations to Withstand Intentional and Unintentional Extreme Loads

D. Considerations for the Dynamic Simulation of Vessels and Piping Undergoing Extreme Loading

- The Basic Structural Dynamic Simulation Considerations
- The Background of Analyzing Extreme Loading Events Using the Finite Element Analysis (FEA) Method for Structural Response Prediction

E. Material Property Needs for the Dynamic Simulation and Design of Structures Undergoing Extreme Loading

F. Addressing Vessel Extreme Loading with the ASME B&PV Code Section VIII, Div. 3 Design Rules

G. Addressing Piping Extreme Loading with the ASME standard B31.3, Process Piping, Design Requirements

H. Changes to ASME PCC-2 Regarding Hazard Analysis (HA) From Accidental Piping/Vessel Failures and Mitigation Guidance

I. Extreme Load Testing and Data Gathering Considerations

Fracture Mechanics Applications for Piping

Dr. Frederick (Bud) Brust, Dr. Gery Wilkowski, Engineering Mechanics Corporation of Columbus & Dr. Suresh Kalyanam, Battelle Memorial Institute

Tuesday, July 21, 2:00 pm – 3:45 pm (Part 1), and 4:15 pm – 6:00 pm (Part 2)

Pacific A (Ballroom Level, 2nd floor)

Fracture mechanics has been applied to plant piping and pipelines for flaw evaluation (assessment of an actual flaw found in service) and flaw tolerance evaluations (will leak before- break behavior occur). This technology has evolved considerably over the decades from the early assumptions of brittle fracture using linear elastic fracture mechanics. This tutorial will show the developments over time and various current technical aspects for modern flaw evaluation/flaw tolerance analyses. The tutorial is targeted for those new to flaw assessment/ tolerance analyses and provides some overview of methodologies for those willing to undertake advanced applications.

This tutorial includes five modules:

- Module 1: Background on fundamental aspects of fracture mechanics, and historical developments
- Module 2: Subcritical crack growth analyses and considerations
- Module 3: Material toughness/strength conditions
- Module 4: Failure modes and criteria for flawed pipes under quasi-static loading assumptions
- Module 5: Failure modes and criteria for flawed pipes under dynamic loading.

TECHNOLOGY EXHIBITS

Monday, July 20, 8:00 am – 6:00 pm and Tuesday, July 21, 8:00 am – 6:00 pm

Pacific and California Foyers (Ballroom Level – 2nd floor)

The Conference Exhibits will be held on Monday July 20th and Tuesday July 21st. Exhibitors and sponsors will present and discuss their capabilities, equipment, and services in the Pacific and California Foyers.

EPRI/ASME/AWS
PERFORMANCE OF WELDS IN THE ENERGY SECTOR WORKSHOP

Wednesday, July 22, 8:00 am – 12:00 pm; and Thursday, July 23, 8:00 am – 6:00 pm

Pacific A (Ballroom Level, 2nd floor)

This EPRI-ASME-AWS Workshop continues a long-standing effort initiated in 2016 to bring the technical community together and discuss key topics like creep-fatigue, dissimilar metal welds, hydrogen-materials interactions, and others. Invited-only lectures, reviewed by the organizers, and given by a diverse international group of experts will detail the unique and common challenges in the thermal, nuclear, and the petrochemical industries. Over the next three years, critically important themes to the energy industry are expected to include weld failures at PVP 2026, weld repair at PVP 2027, and additive manufacturing at PVP 2028.

Over the course of 1.5-days (morning of Wednesday, July 22, and all day on Thursday, July 23), a single-track Workshop will discuss the research outcomes, service experience, and emerging challenges in three industry-focused sessions specific to the thermal, nuclear, and petrochemical industries. Time will be allowed for questions from the attendees and at the end of each session a devoted discussion session may be coordinated to allow for extended interaction with the audience. The first Workshop in this series will detail well-executed failure investigations observed throughout the energy industry. Approximately 20 lectures will cover recent or historical failures, databases/statistics of systemic issues, the role of root cause analyses to understand the contributing factors to failure, and relevant research or industry actions which support the prevention of failures. The reviewed failures are expected to include examples of time-independent, time-dependent, corrosion-assisted and other examples in boilers, vessels, pipelines, piping systems, and other static systems.

The Workshop will be preceded during the same week of the 2026 ASME PVP Conference by a Symposium on the same subject, but the Symposium will follow the ASME PVP paper publication process. The Symposium sessions where these papers will be presented are OAC-06, MF-20, and MF-38. A similar number of papers to those at the Workshop are expected to be presented, totaling approximately 40 presentations on weld failures at the Symposium and Workshop.

NETWORKING RECEPTION

Tuesday, July 21, 5:30 pm – 7:00 pm

Pacific and California Foyers (Ballroom Level, 2nd floor)

A Networking Reception will be held from 5:30 to 7:00 pm on Tuesday, July 22nd. This event brings together industry and academia around a table to discuss possible future collaboration on potential projects. Snacks and a cash bar will be served.

SOCIAL PROGRAMS and TOURS

Conference-Wide Reception
Monday, July 20, 6:15 pm – 8:00 pm

Pacific and California Foyers (Ballroom Level, 2nd floor)

All who registered are invited to attend the Conference Wide Reception. Meet with your colleagues, many of whom you may not have seen for a while. Join with the registrants and guests for a relaxing evening. We will have displays of student paper posters at the reception. All student authors who participate in the 28th Rudy Scavuzzo Student Paper Symposium and Competition are invited to present their posters.

No charge for registered conference participants and guests.

Tour of the Queen Mary – Long Beach, CA

Monday, July 20, 10:00 am (lunch on your own)

Experience a captivating visit aboard the historic Queen Mary, an iconic ocean liner now permanently docked in Long Beach, California. During the tour, guests can explore the ship's elegant Art Deco design, stroll through its grand public rooms, and learn about its remarkable history—from luxury transatlantic voyages to its service during World War II. The experience offers a blend of maritime heritage, architectural beauty, and fascinating stories that bring the ship's past to life. Specific tour elements may vary once final details are confirmed. Tour includes transportation by coach bus to location with return to hotel.

Tickets: $90 per person ($50 for Children under 12 years).

You may go back into your conference registration to add tickets online. Instructions are in your confirmation email or contact.

Tour of Mission San Juan Capistrano

Tuesday, July 21, 10:00 am (lunch on your own)

Experience a guided tour of Mission San Juan Capistrano, one of California's most historic and picturesque landmarks. Guests will explore the Mission's beautifully preserved gardens, iconic stone church ruins, and museum spaces that highlight its centuries old story. Along the way, learn about the Mission's cultural significance, its role in early California history, and the traditions that continue to shape the community today. This relaxed, informative visit offers a meaningful glimpse into the heritage, architecture, and spirit of "The Jewel of the Missions." Specific tour elements may vary once final details are confirmed. Tour includes transportation by coach bus to location with return to hotel.

Tickets: $90 per person ($50 for Children under 12 years).

You may go back into your conference registration to add tickets online.

SoCAL GAS FACILITIES TECHNICAL TOUR

Friday, July 24; 9:00am – 12:00pm

Depart Hilton Anaheim: 8:30am

Arrive Hilton Anaheim: 12:30pm

Cost: $25

The tour will visit:

- H2IE (formerly the H2 home): 9240 Firestone Blvd, Downey, CA 90241
- Living Lab and Situation City: 8101 Rosemead Blvd, Pico Rivera, CA 90660

The first location is the [H2] Innovation Experience which is North America's first-ever clean renewable hydrogen powered microgrid and home located in Downey. This project demonstrates how net-zero gas made from renewable electricity can be used in pure form or as a blend to fuel energy systems and communities of the future.

The second location will be the Living Lab demonstration site in Pico Rivera, where the feasibility of blending 25–35% hydrogen by volume into existing natural gas infrastructure will be evaluated by simulating system operations. The demonstration includes steel and plastic pipelines and components, a pressure regulator station, and a compressor.

- Closed toed shoes and pants are required.
- Transportation is included.

CONFERENCE INFORMATION

Technical Sessions and Programs

All technical sessions will be held in the meeting area of the hotel. Each room will be equipped with an LCD projector that can be connected to a personal computer for electronic presentations (e.g., Microsoft PowerPoint). Please note that ASME will not provide personal computers. Personal computers are the responsibility of the Session Developer, or presenter. It is strongly recommended that authors provide their materials to the Session Developer or Session Chair at, or before, the Authors' Breakfast, so that all the papers in a session can be loaded onto a single computer. Authors are recommended to transfer their presentation utilizing file sharing methods as opposed to USB devices, for which many companies have restrictions on their use due to security concerns.

The location of the session rooms is shown in the hotel floor plan on the inside back cover of this program.

Badge Required for all Events

Please wear your badge for admission to all Conference activities.Your badge also provides a helpful introduction to other Conference attendees.

Rudy Scavuzzo Student Paper Competition

The Rudy Scavuzzo Student Paper Competition was sponsored by the Senate of Past Chairs of the PVP Division for the 2026 Conference. The undergraduate and graduate student papers were judged in two categories: the BS/MS level and the Ph.D. level. Papers were judged and winners were selected prior to the Conference. In each category (i.e., BS/MS and Ph.D.), $1,500 will be awarded to the lead author of the Outstanding Student Paper; $1,200 will be awarded to the lead author of the First Runner-Up Student Paper, and $1,000 will be awarded to the lead author of the Second Runner-Up Student Paper. Students in the competition must attend the Conference. The winners will be announced at the Honors and Awards Assembly and Dinner.

Technical Committee Meetings
Monday, July 20, 12:00 pm – 1:50 pm
Tuesday, July 21, 12:00 pm – 1:50 pm

The Pressure Vessels & Piping Division Technical Committees will meet during the noon breaks on Monday, July 20th, and Tuesday, July 21st. Visitors are encouraged to attend and take an active part in PVP committee activities. All committee meetings, schedules and rooms are listed under PVP 2026 Committee Meetings on page 14.

PVP Division Honors and Awards Luncheon
Wednesday, July 22, 12:00 pm – 2:00 pm
California Ballroom CD (Ballroom Level – 2nd floor)

The Honors and Awards Luncheon, honoring all Division Award Recipients and the 2026 ASME S.Y. Zamrik PVP Medalist, Gery Wilkowski, will be held on Wednesday, July 22nd, from 12:00 pm until 2:00 pm, in California Ballroom CD. One ticket is included in the full Conference registration fee. Additional tickets may be purchased at the Conference Registration desk.

Authors' Breakfast/Briefing
Monday, July 20 – Thursday, July 23, 7:00 am – 7:45 am

California Ballroom D (Ballroom Level – 2nd floor)

Authors, Panelists, Chairs, and Co-Chairs are required to attend a breakfast briefing in the indicated rooms on Monday through Thursday, at 7:00 am, on the morning of their sessions. Session protocol will be discussed, and the participants will have the opportunity to become better acquainted with one another before their scheduled sessions. Authors are encouraged to place all the presentations for their session on a single computer before or at the Authors' Breakfast.

Registration Hours

Ballroom Level, 2nd floor

The ASME registration desk will be open during the following hours, to provide advance registrants with their materials, to process on site registrations, and to provide additional Conference information.

Sunday, July 19	10:00 am – 6:00 pm
Monday, July 20	7:30 am – 6:00 pm
Tuesday, July 21	7:30 am – 4:00 pm
Wednesday, July 22	7:30 am – 3:00 pm
Thursday, July 23	7:30 am – 10:00 am

On-Site Registration Fees

For those not registered in advance, the On-Site Registration Fees are as follows:

	Full Registration*	One Day Registration**
ASME Member	$1350	$800
Cooperating Society Member***	$1350	$800
Non-Member****	$1550	$960
ASME Life Member †	$650	$385
ASME Student Member ‡	$650	$385
Student Non-Member ‡	$700	$450
Extra Ticket Awards Luncheon (Wednesday Night)	$50	–

*	Full Registration fees include admission to all technical sessions, coffee breaks, Conference-Wide Reception, one (1) ticket for the Honors and Awards Luncheon (please RSVP during registration), and online access to the Conference Technical Papers.
**	One Day Registration Fee includes: Admission to all technical sessions, and coffee breaks for the one day.
***	To qualify for discounted registration fees, you must be a member of ASME, or one of the Cooperating Societies. If you are a member of a cooperating society please contact micelik@asme.org.
****	Anyone paying the non-member fee is eligible to receive 4 month membership to ASME as part of their registration fee.
†	Registration under this category includes admission to all technical sessions, coffee breaks, Conference-Wide Reception, one (1) ticket for the Honors and Awards Luncheon, and online access to the Conference Technical Papers.
‡	Student Registration Fees include admission to all technical sessions, coffee breaks, Conference-Wide Reception, and online access to the Conference Technical Papers. Students not in the Student Paper Competition will be required to purchase a ticket to attend the Honors and Awards Luncheon.
‡‡	Guests wishing to attend the Honors and Awards Luncheon will be required to purchase a ticket.

Cooperating Societies

If you are a member of a Cooperating Society, you may register at the ASME member rate.

Conference App

PVP2026 will utilize a mobile event app, ASME Conferences, in place of a printed program. All registered attendees will receive an email with instructions for download and use of the app. The subject of the email will be: Log on to PVP2026 and get started with the ASME Conferences App!

The ASME Conferences App allows the user to access event content and connect with other attendees in advance. It also allows for attendees to "build" their own schedule by sessions, individual presentations, networking sessions, committee meetings and more. Schedule sections may be searched by paper number, session number, author, presentation type, track, date, or session organizer.

It is recommended that attendees only download the ASME Conferences app through the official Apple App Store or Google Play Store to avoid counterfeit websites offering mobile apps. Attendees can apply the same login credentials used to activate their ASME profile to access the ASME Conferences app. Attendees should make sure their phone's operating system is up to date and are running the most recent version of the app for the best experience.

Conference Publications

Information on paper titles and authors are included in the Final Program. All attendees registered for the entire Conference (i.e., Full Registration) will receive online access to the Conference Technical Papers presented at the Conference. If you pre-register to the Conference prior to July 18, 2026 you will be able to download the technical papers online at the link that will be sent to you by email prior to the conference. It is recommended to download the batch file before coming to the Conference. Conference papers will also be available on the conference app.

Post-conference, papers presented at the Conference will be published as the official Proceedings on the ASME Digital Collection. (http://asmedigitalcollection.asme.org)

The official proceedings will also be available post-conference in printed bound volumes of the Official Conference Proceedings. Printed proceedings can be ordered at https://www.proceedings.com/ approximately three to four months after the Conference. All ASME Conference Proceedings are submitted to be indexed in Scopus, Compendex, ISI Conference Proceedings Citations Index, and in multiple other indexing publishers.

Disabled Registrants

Whenever possible, arrangements can be made for disabled registrants, if advance notice is given. Please indicate any special needs on the registration form or contact Kim Miceli at: micelik@asme.org to process your request.

Tax Deductibility

Expenses of attending professional meetings have been held to be tax deductible as ordinary business expenses for U.S. citizens. Please verify the tax regulations in your country to determine whether Conference expenses are deductible.

Guest/Family Programs

Guests and family members of registrants are welcome to the Guest Programs that include: Tour of the Queen Mary (Monday), the Conference Wide Reception in Pacific and California Foyers (Monday evening), and the Tour of Mission San Juan Capistrano (Tuesday). Tickets are required for admission to all events. Please also note that some tours have an associated fee for participants. Early registration is strongly recommended for the events that require fees, as they are available only on a first-come, first-served basis.

Childcare Services

We are pleased to offer childcare reimbursement for attendees of PVP2026. For those who need childcare services, ASME will reimburse up to a total of $250/per registered attendee for services incurred by a licensed service provider in Anaheim, CA, USA. This offering will be available from July 19 – 24, 2026, during the hours of days in which technical presentations are offered.

To be reimbursed, you must complete the ASME Volunteer Travel Expense Contribution form, which may be found at the following link: https://event.asme.org/Events/media/library/resources/Volunteer-Expense-Reimbursment-Report-2022.xlsx

All requests for reimbursements must be received by ASME, with itemized receipts, no later than TWO WEEKS FROM LAST DAY OF CONFERENCE.

If you have questions related to this benefit, please contact Krishna Hernandez at hernandezk@asme.org.

NOTE: ASME suggests you may wish to consult with your local hotel concierge for licensed service provider suggestions.

Professional Development Hours Available

Professional Development Hours are available for your attendance at the PVP Conference. Simply stop by the Registration Desk and fill out a certificate request form with the sessions that you have attended. The certificates will be sent to the emails specified on the forms.

Publishing Conference Papers in the ASME Journal of Pressure Vessel Technology

Technical papers presented at PVP2026 are published in the form of the ASME Conference Proceedings. Publication of papers in these proceedings does not preclude authors from publishing their papers in ASME archival journals, such as the ASME Journal of Pressure Vessel Technology (JPVT), which is the technical voice of the Pressure Vessels & Piping Division. Authors are encouraged to submit their papers to the Journal.

The Journal is edited by Dr. Spyros A. Karamanos, and manuscripts should be submitted to him through the URL address: https://journaltool.asme.org/home/JournalDescriptions.cfm?JournalID=14&Journal=PVT. Manuscripts should be prepared according to the ASME Journals author resources, which can be found in the link: https://journaltool.asme.org/home/AuthorResources.cfm

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PVP Authors

Congratulations on contributing your accepted paper to this year's Pressure Vessels and Piping Conference! You have joined the thousands of authors who collectively have facilitated the state of the art, efficiency, reliability, and safety in pressure technology. In doing so, you have taken a positive step toward enhancing your professional and/or academic reputation among your peers and within your respective companies or institutions.

Did you know that you can further enhance your profile by submitting your paper to the ASME *Journal of Pressure Vessel Technology*? It takes little additional effort, and it is not necessary to reformat your accepted PVP paper before submitting for review.

How to submit your PVP paper for JPVT consideration today:

1. From the PVP Conference website (event.asme.org/PVP), go to the bottom of the page and find Journal of Pressure Vessel Technology under "Event Resources"
2. This will take you to the home page for the Journal where you will find the purpose and scope, as well as access to author resources. Click on the "Submit Paper to Journal" link at the bottom of the page.
3. If you have not submitted a paper before, you will need to register but it is not a complex process. Again, it is not necessary to reformat your accepted PVP paper to submit for review.

About the Journal

Purpose

The *Journal of Pressure Vessel Technology* is the premier publication for the highest quality research and interpretive reports on the design, analysis, materials, fabrication, construction, inspection, operation, and failure prevention of pressure vessels, piping, pipelines, power and heating boilers, heat exchangers, reaction vessels, pumps, valves, and other pressure and temperature-bearing components, as well as the nondestructive evaluation of critical components in mechanical engineering applications. It publishes analytical, experimental, and numerical studies and welcomes review papers in PVP technology and related research topics.

Not only does the journal cover all topics dealing with the design and analysis of pressure vessels, piping, and components, but it also contains discussions of their related Codes and Standards.

Scope: Applicable pressure technology areas of interest include: Dynamic and seismic analysis; Equipment qualification; Fabrication; Welding processes and integrity; Joining and fastening; Operation of pressure vessels and piping; Fatigue and fracture; Fluid-structure interaction; High pressure engineering; Elevated temperature analysis and design; Inelastic analysis; Life extension of PVP components; Lifeline earthquake engineering; PVP materials and their property databases; Structural integrity; NDE; PVP components for hydrogen storage and transmission; Safety and reliability; Verification and qualification of software.

PVP2026 COMMITTEE MEETINGS

Date/Time	Meeting	Room	Responsible Person
Saturday, July 18, 2026			
1:00 pm – 3:00 pm	PVPD Senate Operations Committee	Executive Boardroom	C. Rodery
Sunday, July 19, 2026			
8:30 am – 12:00 pm	PVP Division Leadership Team	Avalon A	C. Rodery
Monday, July 20, 2026			
8:00 am – 9:45 am	PVPD Professional Development	Palisades	A. Duncan
8:00 am – 9:45 am	Women in PVP Task Force	Avalon A	M. Feldman
8:00 am – 9:45 am	PVP2027 Program Committee	Catalina 7	A. Reich
12:00 pm – 1:50 pm	PVPD Materials & Fabrication Technical Committee	Pacific A	M. Uddin
12:00 pm – 1:50 pm	PVPD Design and Analysis Technical Committee	Catalina 5	N. Barkley
12:00 pm – 1:50 pm	PVPD Operations, Applications and Components Technical Committee	Catalina 6	A. Cheta
12:00 pm – 1:50 pm	PVPD High Pressure Technology Technical Committee	Catalina 7	K. Karpanan
Tuesday, July 21, 2026			
8:00 am – 9:45 am	PVPD Communications Committee	Palisades	A. Reich
12:00 pm – 1:50 pm	PVPD Advanced Energy Special Technical Committee	Pacific A	S. Finneran
12:00 pm – 1:50 pm	PVPD Codes and Standards Technical Committee	Catalina 5	V. Lacroix
12:00 pm – 1:50 pm	PVPD Fluid-Structure Interaction Technical Committee	Catalina 6	A. Mohany
12:00 pm – 1:50 pm	PVPD Computer Technology and Bolted Joints Technical Committee	Catalina 7	A. Bausman
12:00 pm – 1:50 pm	PVPD Seismic Engineering Technical Committee	Palisades	T. Matsuoka
2:00 pm – 3:45 pm	PVPD International Coordination Committee	Palisades	H. Lejeune
4:15 pm – 6:00 pm	PVPD Honors and Awards Committee (CLOSED MEETING)	Palisades	K. Subramanian
Wednesday, July 22, 2026			
10:15 am – 12:00 pm	JPVT Editors	Palisades	S. Karamanos
Thursday, July 23, 2026			
8:00 am – 12:00 pm	ASME B16 Committee Meeting	Catalina 5	D. Peters
8:00 am – 9:45 am	PVPD Early Career Engineers Feedback Session	Palisades	T. Seipp
10:15 am – 12:00 pm	PVPD Committee on Growth	Palisades	D. Peters
12:00 pm – 3:45 pm	PVPD General Committee	Avalon A	D. Gross
4:15 pm – 6:00 pm	PVPD Conference Evaluation	Avalon A	M. Feldman
Friday, July 24, 2026			
8:15 am – 6:00 pm	Study Group on Materials Testing & Qualification for H2 Service	Pacific A	C. San Marchi
8:15 am – 12:00 pm	PVP Division Leadership Team	Catalina 7	D. Gross

CALL FOR PAPERS

2027 ASME Pressure Vessels & Piping Conference

ABSTRACTS DUE – OCTOBER 19, 2026

JOIN US AT THE 2027 ASME PVP CONFERENCE

JULY 25 – 30, 2027, AT THE PARIS MARRIOTT RIVE GAUCHE HOTEL AND CONFERENCE CENTER PARIS, FRANCE

PRESSURE VESSELS AND PIPING TECHNOLOGIES FOR FUTURE GROWTH

Join us in Paris, France for the 2027 Pressure Vessels and Piping Conference as we contribute to supporting advancements in Pressure Vessels & Piping Technologies for future growth of power and process industries. The PVP Conference is the ideal platform to keep up with new technologies, network, and interact with experts, practitioners, and peers in the Pressure Vessels & Piping area. The PVP Conference is a recognized international forum with participants from more than 40 countries in Europe, Africa, the Middle East, Asia, the Americas and the Oceania islands. The ASME Pressure Vessels & Piping Division sponsors the PVP Conference.

PAPER & PANEL SESSIONS

More than 160 paper and panel sessions are planned, including tutorials, workshops, AI & other symposiums, and Technology Exhibits. General topics will include:

- Advanced Energy
- Computer Technology & Bolted Joints
- Fluid-Structure Interaction
- Non-Destructive Examination
- Seismic Engineering
- Codes & Standards
- Design & Analysis
- High-Pressure Technology
- Materials & Fabrication
- Operations, Applications & Components

SCHEDULE FOR SUBMISSION*

October 19, 2026	Abstracts are due
November 16, 2026	Abstract Accept/Reject Notification
January 25, 2027	Submission of Full-Length Paper for Review
March 8, 2027	Notification of Full-Length Paper Acceptance
March 23, 2027	Submission of Revised Full-Length Paper for Review (if required)
April 5, 2027	Notification of Acceptance of Revised Full-Length Paper
April 22, 2027	Copyright Agreement Form (for each paper co-author) Final Deadline
April 26, 2027	Technical Paper and Presentation Author Registration Deadline
April 26, 2027	Final Manuscripts in ASME format for publication due

**All final manuscripts must be submitted in the standard ASME format for publication. All presented technical papers will be published as citable documents available post-conference.*

FOR MORE INFORMATION

PVP Conference Chair
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PVP Technical Program Chair
Alton Reich
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AReich.ASME@gmail.com

SESSION TITLES BY SESSION BLOCK

Sessions are arranged in Session Blocks in the format X.YZ, where: X indicates the Day, Y indicates the Session Block, and Z indicates the Conference Session Room. Conference Session Rooms are as follows: A = Pacific B; B = California A; C = California B; D = Sunset; E = Salinas; F = Monterey; G = Carmel; H = San Simeon B; I = San Simeon A; J = Avila B; K = Avila A; L = El Capitan A; M = El Capitan B; N = Malibu; O = Santa Monica; P = Pacific A; Q = Pacific/California Foyers; R = California C. The parenthetical designations are the Technical Committee session references.

The Technical Committee and other acronyms used are shown below:

- AE = Advanced Energy
- AI = Artificial Intelligence
- CS = Codes & Standards
- CT = Computer Technology & Bolted Joints
- DA = Design & Analysis
- FSI = Fluid–Structure Interaction
- HT = High Pressure Technology
- MF = Materials & Fabrication
- NDE = ASME NDE, Diagnosis and Prognosis Division
- OAC = Operations Applications, & Components
- PS = Plenary Session
- SE = Seismic Engineering
- TE = Technology Exhibits
- TW = Technical Tutorials
- WO = Welcome and Orientation Session

All sessions are sponsored by the indicated Technical Committee unless specifically noted in the daily listing of individual sessions beginning on page 20.

Sunday, July 19, 2026

Block 0.1: Sunday, July 19, 2026 (8:00 am - 9:45 am)

0.1P (TW-01-01) TECHNICAL TUTORIAL: INTRODUCTION TO ASME SECTION VIII, DIVISION 2, PART 5 – DESIGN BY ANALYSIS - PART 1

Block 0.2: Sunday, July 19, 2026 (10:00 am – 11:45 pm)

0.2P (TW-01-02) TECHNICAL TUTORIAL: INTRODUCTION TO ASME SECTION VIII, DIVISION 2, PART 5 – DESIGN BY ANALYSIS - PART 2

Block 0.3: Sunday, July 19, 2026 (12:45 pm - 2:30 pm)

0.3P (TW-01-03) TECHNICAL TUTORIAL: INTRODUCTION TO ASME SECTION VIII, DIVISION 2, PART 5 – DESIGN BY ANALYSIS - PART 3

Block 0.4: Sunday, July 19, 2026 (2:45 pm - 4:00 pm)

0.4P (TW-01-04) TECHNICAL TUTORIAL: INTRODUCTION TO ASME SECTION VIII, DIVISION 2, PART 5 – DESIGN BY ANALYSIS - PART 4

Monday, July 20, 2026

Block 1.1: Monday, July 20, 2026 (8:00 am - 9:45 am)

1.1R (WO-01-01) WELCOME AND ORIENTATION

1.1Q (TE-01-01) TECHNOLOGY EXHIBITS - 1

Block 1.2: Monday, July 20, 2026 (10:15 am - 12:00 pm)

1.2R (PS-01-01) OPENING CEREMONY AND PLENARY LECTURES

1.2Q (TE-01-02) TECHNOLOGY EXHIBITS - 2

Block 1.3: Monday, July 20, 2026 (2:00 pm - 3:45 pm)

1.3A (AE-07-01) MATERIAL TESTING FOR HYDROGEN SERVICE - 1

1.3B (CT-01-01) THE JAMES R. PAYNE MEMORIAL SESSION ON DESIGN AND ANALYSIS OF BOLTED FLANGE JOINTS - 1

1.3C (AI-01-01) 2ND AI SYMPOSIUM: AI IN MECHANICAL ENGINEERING PRACTICE: DESIGN, MONITORING & OPERATIONS (PANEL SESSION)

1.3F (CS-24-01) PROBABILISTIC AND RISK-INFORMED METHODS FOR STRUCTURAL INTEGRITY ASSESSMENT - 1

1.3G (DA-09-01) PIPING AND EQUIPMENT DYNAMICS AND DYNAMIC RESPONSE ANALYSIS - 1

1.3H (MF-03-01) WELDING RESIDUAL STRESS AND DISTORTION SIMULATION AND MEASUREMENT AND POST WELD HEAT TREAT EFFECTS - 1

1.3I (DA-08-01) FITNESS FOR SERVICE EVALUATIONS - 1

1.3J (MF-24-01) MATERIALS AND FABRICATION FOR REFINING - 1

1.3K (DA-12-01) FRACTURE - 1

1.3L (SE-01-01) THE MICHAEL E. NITZEL MEMORIAL SYMPOSIUM ON SEISMIC ENGINEERING: EARTHQUAKE RESISTANCE AND SEISMIC MARGIN - 1 (WITH SE-02)

1.3M (MF-25-01) HIGH STRENGTH STEELS FOR PRESSURE VESSELS AND PIPING APPLICATIONS - 1

1.3N (DA-15-01) 10TH INTERNATIONAL SYMPOSIUM ON COKE DRUM LIFE CYCLE MANAGEMENT - 1

1.3O (CS-01-01) STRUCTURAL INTEGRITY OF PRESSURE COMPONENTS - 1

1.3P (TW-01-05) TECHNICAL TUTORIAL: STRUCTURAL DYNAMICS FOR EXTREME LOADING EVENTS OF VESSELS AND PIPING - PART 1

1.3Q (TE-01-03) TECHNOLOGY EXHIBITS - 3

Block 1.4: Monday, July 20, 2026 (4:15 pm - 6:00 pm)

1.4A (AE-07-02) MATERIAL TESTING FOR HYDROGEN SERVICE - 2

1.4B (CT-01-02) DESIGN AND ANALYSIS OF BOLTED FLANGE JOINTS - 2

1.4C (MF-37-01) 2ND AI SYMPOSIUM: APPLICATIONS OF ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, AND DATA ANALYSIS IN MATERIALS AND FABRICATION - 1 (WITH MF-16)

1.4F (CS-24-02) PROBABILISTIC AND RISK-INFORMED METHODS FOR STRUCTURAL INTEGRITY ASSESSMENT - 2

1.4G (DA-09-02) PIPING AND EQUIPMENT DYNAMICS AND DYNAMIC RESPONSE ANALYSIS - 2

1.4H (MF-38-01) WELD FAILURE SYMPOSIUM FOR ENERGY GENERATION SECTOR - 1

1.4I (DA-08-02) FITNESS FOR SERVICE EVALUATIONS - 2

1.4J (MF-24-02) MATERIALS AND FABRICATION FOR REFINING - 2

1.4K (MF-01-01) APPLICATION OF FRACTURE MECHANICS IN FAILURE ASSESSMENT - 1

1.4L (SE-08-01) THE MICHAEL E. NITZEL MEMORIAL SYMPOSIUM ON SEISMIC ENGINEERING: ADVANCED SEISMIC EVALUATION AND CODES - 1

1.4M (HT-05-05) PANEL SESSION: MATERIAL PROPERTIES AND ASME ACCEPTANCE OF POWDERED METAL PRODUCTS

1.4N (DA-15-02) PANEL SESSION: 10TH INTERNATIONAL SYMPOSIUM ON COKE DRUM LIFE CYCLE MANAGEMENT - 2 WHAT'S NEXT FOR THE INDUSTRY?

1.4O (CS-01-02) STRUCTURAL INTEGRITY OF PRESSURE COMPONENTS - 2

1.4P (TW-01-06) TECHNICAL TUTORIAL: STRUCTURAL DYNAMICS FOR EXTREME LOADING EVENTS OF VESSELS AND PIPING - PART 2

1.4Q (TE-01-04) TECHNOLOGY EXHIBITS - 4

Tuesday, July 21, 2026

Block 2.1: Tuesday, July 21, 2026 (8:00 am - 9:45 am)

2.1A (AE-07-03) MATERIAL TESTING FOR HYDROGEN SERVICE - 3
2.1B (CT-03-01) LEAK TIGHTNESS AND FUGITIVE EMISSIONS - 1 (WITH CT-10 & DA-10)
2.1C (MF-37-02) 2ND AI SYMPOSIUM: APPLICATIONS OF ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, AND DATA ANALYSIS IN MATERIALS AND FABRICATION - 2 (WITH MF-10)
2.1D (OAC-04-01) STORAGE AND TRANSPORTATION OF RADIOACTIVE AND OTHER HAZARDOUS MATERIALS - 1
2.1E (SE-05-01) THE MICHAEL E. NITZEL MEMORIAL SYMPOSIUM ON SEISMIC ENGINEERING: STRUCTURAL DYNAMICS - 1 (WITH SE-08)
2.1F (CS-24-03) PROBABILISTIC AND RISK-INFORMED METHODS FOR STRUCTURAL INTEGRITY ASSESSMENT - 3 (WITH CT-17 AND CS-25)
2.1G (MF-13-01) COMPOSITE AND NON-METALLIC SYSTEMS FOR PRESSURE VESSELS AND PIPING - 1 (WITH DA-17)
2.1H (MF-20-01) MATERIAL QUALITY AND FAILURE ANALYSIS (WITH WELD FAILURES SYMPOSIUM) - 1
2.1I (CS-23-01) IMPROVEMENT OF FLAW CHARACTERIZATION RULES FOR FFS - 1 (WITH CS-06 & OAC-06)
2.1J (DA-01-01) DESIGN AND ANALYSIS OF PRESSURE VESSELS, HEAT EXCHANGERS, AND COMPONENTS - 1
2.1K (MF-12-01) LEAK BEFORE BREAK - 1
2.1L (CS-07-01) RECENT DEVELOPMENTS IN ASME CODES AND STANDARDS - 1
2.1M (HT-05-01) PANEL SESSION: HOT ISOSTATIC PROCESSING (HIP) APPLICATIONS AND DEVELOPMENT
2.1N (CS-12-01) HIGH TEMPERATURE CODES AND STANDARDS - 1/HIGH TEMPERATURE EQUIPMENT DESIGN STANDARDS (WITH CT-11)
2.1O (MF-04-01) EUROPEAN PROGRAMS IN STRUCTURAL INTEGRITY - 1 (WITH MF-23)
2.1Q (TE-01-05) TECHNOLOGY EXHIBITS - 5

Block 2.2: Tuesday, July 21, 2026 (10:15 am - 12:00 pm)

2.2A (AE-07-04) MATERIAL TESTING FOR HYDROGEN SERVICE - 4
2.2C (CT-19-01) 2ND AI SYMPOSIUM: APPLICATIONS OF AI IN BOLTING TECHNOLOGY (WITH CT-01 & CT-04)
2.2D (OAC-04-02) STORAGE AND TRANSPORTATION OF RADIOACTIVE AND OTHER HAZARDOUS MATERIALS - 2
2.2E (SE-06-01) THE MICHAEL E. NITZEL MEMORIAL SYMPOSIUM ON SEISMIC ENGINEERING: SEISMIC AND RATCHETING DEFORMATION OF METALLIC MATERIALS AND PIPING - 1
2.2F (MF-14-01) PROBABILISTIC ASSESSMENT OF FAILURE - 1
2.2G (DA-02-01) DESIGN AND ANALYSIS OF PIPING, PIPELINES, AND COMPONENTS - 1
2.2H (MF-20-02) MATERIAL QUALITY AND FAILURE ANALYSIS (WITH WELD FAILURES SYMPOSIUM) - 2 (WITH MF-15 & MF-25)
2.2I (CS-22-01) REPAIR, REPLACEMENT AND MITIGATION FOR FITNESS-FOR-SERVICE RULES - 1
2.2J (DA-01-02) DESIGN AND ANALYSIS OF PRESSURE VESSELS, HEAT EXCHANGERS, AND COMPONENTS - 2
2.2K (MF-22-01) 3D CRACK GROWTH SIMULATION USING FEA - 1 (WITH DA-12 & MF-09)
2.2L (CS-07-02) RECENT DEVELOPMENTS IN ASME CODES AND STANDARDS - 2
2.2M (HT-05-02) PANEL SESSION: ADVANCES IN LARGE SCALE HIP DESIGN
2.2N (CS-16-01) FATIGUE AND RATCHETING ISSUES IN PRESSURE VESSEL AND PIPING DESIGN - 1/FATIGUE CODE METHODS & DESIGN CRITERIA (WITH CS-18 & MF-07)
2.2O (MF-10-01) PIPELINE INTEGRITY - 1
2.2Q (TE-01-06) TECHNOLOGY EXHIBITS - 6

Block 2.3: Tuesday, July 21, 2026 (2:00 pm - 3:45 pm)

2.3A (AE-07-05) MATERIAL TESTING FOR HYDROGEN SERVICE - 5 (WITH CS-02 & MF-32)
2.3B (CT-04-01) ASSEMBLY OF BOLTED JOINTS - 1
2.3C (CT-19-02) 2ND AI SYMPOSIUM: AI, DATA ENGINEERING AND DATA ANALYSIS (WITH CT-08)
2.3D (MF-36-01) ADVANCES IN HIGH TEMPERATURE REACTOR TECHNOLOGY - 1
2.3E (SE-07-01) THE MICHAEL E. NITZEL MEMORIAL SYMPOSIUM ON SEISMIC ENGINEERING: SEISMIC EVALUATION OF SYSTEMS, STRUCTURES AND COMPONENTS - 1
2.3G (DA-02-02) DESIGN AND ANALYSIS OF PIPING, PIPELINES, AND COMPONENTS - 2
2.3H (OAC-06-01) THE TAKAYASU TAHARA MEMORIAL SESSION ON OPERATION AND MAINTENANCE OF PLANT EQUIPMENT (WITH WELD FAILURES SYMPOSIUM) - 1
2.3I (CS-22-02) REPAIR, REPLACEMENT AND MITIGATION FOR FITNESS-FOR-SERVICE RULES - 2
2.3J (DA-01-03) DESIGN AND ANALYSIS OF PRESSURE VESSELS, HEAT EXCHANGERS, AND COMPONENTS - 3
2.3L (CS-07-03) RECENT DEVELOPMENTS IN ASME CODES AND STANDARDS - 3
2.3M (HT-05-03) PANEL SESSION: ADVANCES IN HIP PROCESS MODELLING
2.3N (CS-17-01) ENVIRONMENTAL FATIGUE ISSUES – 1 / ENVIRONMENTAL FATIGUE IN NUCLEAR/PWR ENVIRONMENTS
2.3O (MF-10-02) PIPELINE INTEGRITY - 2
2.3P (TW-01-07) TECHNICAL TUTORIAL: FRACTURE MECHANICS APPLICATIONS FOR PIPING - PART 1
2.3Q (TE-01-07) TECHNOLOGY EXHIBITS - 7

Block 2.4: Tuesday, July 21, 2026 (4:15 pm - 6:00 pm)

2.4A (AE-02-01) HIGH PRESSURE HYDROGEN EQUIPMENT - 1 (WITH HT-07)
2.4B (CT-04-02) ASSEMBLY OF BOLTED JOINTS - 2 (WITH CT-03, CT-05 & DA-10)
2.4C (SE-04-01/ NDE-03-01) 2ND AI SYMPOSIUM: MACHINE LEARNING AND ADVANCED COMPUTATION FOR SEISMIC ANALYSIS OF INDUSTRIAL FACILITIES AND NDE RELIABILITY
2.4D (CS-27-01) MATERIALS SURVEILLANCE FOR HIGH TEMPERATURE REACTORS - 1 (WITH CS-04)
2.4F (OAC-07-01) LONG TERM OPERATION AND AGING MANAGEMENT - 1 (WITH OAC-03)
2.4G (DA-02-03) DESIGN AND ANALYSIS OF PIPING, PIPELINES, AND COMPONENTS - 3
2.4H (OAC-06-02) OPERATION AND MAINTENANCE OF PLANT EQUIPMENT (WITH WELD FAILURES SYMPOSIUM) - 2
2.4I (CS-22-03) REPAIR, REPLACEMENT AND MITIGATION FOR FITNESS-FOR-SERVICE RULES - 3
2.4J (DA-01-04) DESIGN AND ANALYSIS OF PRESSURE VESSELS, HEAT EXCHANGERS, AND COMPONENTS - 4
2.4K (CS-19-01) FRACTURE TOUGHNESS AND OTHER SMALL SPECIMEN MECHANICAL PROPERTIES - 1
2.4L (CS-07-04) RECENT DEVELOPMENTS IN ASME CODES AND STANDARDS - 4 (WITH CS-08)
2.4M (HT-05-04) PANEL SESSION: HIP WRAP UP

2.4N (DA-03-01) FATIGUE - 1/ENVIRONMENTAL FATIGUE ASSESSMENT METHODS & TEMPERATURE EFFECTS (WITH CS-17)
2.4O (AE-01-01) HYDROGEN PIPELINES - 1
2.4P (TW-01-08) TECHNICAL TUTORIAL: FRACTURE MECHANICS APPLICATIONS FOR PIPING - PART 2
2.4Q (TE-01-08) TECHNOLOGY EXHIBITS - 8

Wednesday, July 22, 2026

Block 3.1: Wednesday, July 22, 2026 (8:00 am - 9:45 am)

3.1A (HT-07-01) DESIGN AND ANALYSIS OF HIGH PRESSURE HYDROGEN EQUIPMENT
3.1B (DA-10-02) PANEL SESSION: BOLTED JOINT INTERNATIONAL LIAISON SESSION - 1
3.1C (CS-28-01) 2ND AI SYMPOSIUM: APPLICATIONS OF AI IN CODES AND STANDARDS (WITH CS-10 & FSI-02)
3.1D (CS-15-01) MECHANICAL PROPERTIES OF NUCLEAR GRAPHITE AND THEIR IMPLEMENTATION IN CODES AND STANDARDS - 1
3.1E (SE-07-02) THE MICHAEL E. NITZEL MEMORIAL SYMPOSIUM ON SEISMIC ENGINEERING: SEISMIC EVALUATION OF SYSTEMS, STRUCTURES AND COMPONENTS - 2
3.1G (DA-02-04) DESIGN AND ANALYSIS OF PIPING, PIPELINES, AND COMPONENTS - 4
3.1H (OAC-06-03) OPERATION AND MAINTENANCE OF PLANT EQUIPMENT - 3
3.1J (DA-16-01) VESSEL DESIGN PHILOSOPHY - 1 (WITH DA-19)
3.1K (CS-19-02) FRACTURE TOUGHNESS AND OTHER SMALL SPECIMEN MECHANICAL PROPERTIES - 2 (WITH MF-11)
3.1L (CS-11-01) RECENT DEVELOPMENTS IN EUROPEAN CODES AND STANDARDS - 1
3.1M (AE-06-01) NON-METALLICS FOR HYDROGEN SERVICE - 1 (WITH CS-13)
3.1N (DA-03-02) FATIGUE - 2/FATIGUE LIFE PREDICTION & FAILURE ANALYSIS (WITH DA-09)
3.1O (AE-01-02) HYDROGEN PIPELINES - 2
3.1P (TW-01-09) EPRI-ASME-AWS WORKSHOP: PERFORMANCE OF WELDS IN THE ENERGY SECTOR - PART 1

Block 3.2: Wednesday, July 22, 2026 (10:15 am - 12:00 pm)

3.2A (AE-03-01) HYDROGEN FACILITIES AND PIPING - 1 (WITH MF-32)
3.2B (MF-17-01) ADVANCED AND ADDITIVE MANUFACTURING AND MATERIAL TECHNOLOGIES - 1
3.2C (AI-01-02) 2ND AI SYMPOSIUM – PANEL SESSION: AI, CODES, STANDARDS & REGULATION: FROM DRAFTING TO COMPLIANCE
3.2D (MF-29-01) MECHANICAL PROPERTIES OF NUCLEAR GRAPHITE AND COMPOSITES AND THEIR IMPLEMENTATION IN CODES AND STANDARDS - 1
3.2E (FSI-02-01) FLOW-INDUCED VIBRATION - 1
3.2F (OAC-02-01) QUALIFICATION AND TESTING - 1 (WITH OAC-03)
3.2G (DA-02-05) DESIGN AND ANALYSIS OF PIPING, PIPELINES, AND COMPONENTS - 5
3.2H (DA-04-01) INELASTIC, NONLINEAR, AND LIMIT LOAD ANALYSIS - 1
3.2I (MF-05-01) FITNESS-FOR-SERVICE AND FAILURE ASSESSMENT - 1 (WITH DA-22)
3.2J (HT-06-01) DESIGN AND ANALYSIS OF HIGH-PRESSURE EQUIPMENT FOR OIL AND GAS EXPLORATION
3.2K (MF-11-01) SMALL-SCALE AND MINIATURE MECHANICAL TESTING - 1
3.2L (CS-10-01) RECENT DEVELOPMENTS IN CHINESE CODES AND STANDARDS - 1
3.2M (AE-06-02) NON-METALLICS FOR HYDROGEN SERVICE - 2
3.2N (CT-07-01) COMPUTATIONAL APPLICATIONS IN FATIGUE, FRACTURE, AND DAMAGE MECHANICS - 1/FRACTURE MECHANICS & FEA FOR NUCLEAR COMPONENTS (WITH CT-06)
3.2O (AE-01-03) HYDROGEN PIPELINES - 3
3.2P (TW-01-10) EPRI-ASME-AWS WORKSHOP: PERFORMANCE OF WELDS IN THE ENERGY SECTOR - PART 2

Thursday, July 23, 2026

Block 4.1: Thursday, July 23, 2026 (8:00 am - 9:45 am)

4.1B (MF-17-02) ADVANCED AND ADDITIVE MANUFACTURING AND MATERIAL TECHNOLOGIES - 2
4.1C (OAC-01-01) 2ND AI SYMPOSIUM: SAFETY, RELIABILITY, AND RISK MANAGEMENT - 1 (WITH OAC-03)
4.1D (MF-06-03) MATERIALS AND TECHNOLOGIES FOR NUCLEAR POWER PLANTS - 3 (WITH MF-29)
4.1E (FSI-02-02) FLOW-INDUCED VIBRATION - 2
4.1F (NDE-02-01) NDE TECHNIQUES AND APPLICATIONS FOR PETROCHEMICAL AND POWER PLANT COMPONENTS - 1
4.1G (DA-02-06) DESIGN AND ANALYSIS OF PIPING, PIPELINES, AND COMPONENTS - 6
4.1H (FSI-01-01) THERMAL HYDRAULIC PHENOMENA WITH VESSELS, PIPING AND COMPONENTS - 1
4.1I (FSI-03-01) STRUCTURES UNDER EXTREME LOADING CONDITIONS - 1 (WITH HT-02)
4.1J (HT-01-01) DESIGN, ANALYSIS AND LIFE PREDICTION OF HIGH-PRESSURE VESSELS AND EQUIPMENT (WITH HT-04)
4.1K (CS-20-01) MASTER CURVE METHOD AND APPLICATIONS - 1
4.1L (CS-10-02) RECENT DEVELOPMENTS IN CHINESE CODES AND STANDARDS - 2
4.1M (MF-33-01) GENERAL PAPERS - 1
4.1N (DA-07-01) THE DONALD S. GRIFFIN MEMORIAL SESSION ON THERMAL STRESSES AND ELEVATED TEMPERATURE DESIGN - 1/CREEP FATIGUE INTERACTION & HIGH TEMPERATURE BEHAVIOR (WITH MF-16)
4.1O (AE-01-04) HYDROGEN PIPELINES - 4
4.1P (TW-01-11) EPRI-ASME-AWS WORKSHOP: PERFORMANCE OF WELDS IN THE ENERGY SECTOR - PART 3

Block 4.2: Thursday, July 23, 2026 (10:15 am - 12:00 pm)

4.2A (DA-21-01) DESIGN AND ANALYSIS OF HYDROGEN PRESSURE EQUIPMENT - 1 (WITH CT-20)
4.2B (MF-17-03) ADVANCED AND ADDITIVE MANUFACTURING AND MATERIAL TECHNOLOGIES - 3
4.2C (OAC-01-02) 2ND AI SYMPOSIUM: SAFETY, RELIABILITY, AND RISK MANAGEMENT - 2 (WITH HT-06, OAC-03 & OAC-07)
4.2D (MF-06-01) MATERIALS AND TECHNOLOGIES FOR NUCLEAR POWER PLANTS - 1
4.2E (FSI-02-03) FLOW-INDUCED VIBRATION - 3
4.2F (NDE-01-01) EMERGING NON-DESTRUCTIVE EVALUATION AND PROGNOSTIC TECHNIQUES AND APPLICATIONS - 1 (WITH NDE-03 & NDE-04)
4.2G (DA-02-07) DESIGN AND ANALYSIS OF PIPING, PIPELINES, AND COMPONENTS - 7 (WITH DA-19)
4.2H (DA-11-01) COMPUTATIONAL FLUID DYNAMICS IN DESIGN AND ANALYSIS - 1
4.2I (HT-02-01) STRUCTURES UNDER EXTREME LOADING CONDITIONS - 1
4.2J (DA-25-01) CRYOGENIC PRESSURE SYSTEMS FOR HYDROGEN AND OTHER FLUIDS (WITH MF-30)

4.2K (CS-21-01) PANEL SESSION: UPDATE ON INTERNATIONAL BENCHMARK FOR CODIFICATION OF CONSTRAINT EFFECTS ON FRACTURE TOUGHNESS IN THE DUCTILE-BRITTLE TRANSITION REGION FOR NUCLEAR STRUCTURAL COMPONENTS

4.2L (CS-10-03) RECENT DEVELOPMENTS IN CHINESE CODES AND STANDARDS - 3

4.2N (MF-16-01) CREEP AND CREEP-FATIGUE INTERACTION - 1/CREEP ANALYSIS & MATERIAL MODELING (WITH CT-11)

4.2O (AE-01-05) HYDROGEN PIPELINES - 5

4.2P (TW-01-12) EPRI-ASME-AWS WORKSHOP: PERFORMANCE OF WELDS IN THE ENERGY SECTOR - PART 4

Block 4.3: Thursday, July 23, 2026 (2:00 pm - 3:45 pm)

4.3A (AE-04-01) MATERIALS FOR CRYOGENIC HYDROGEN SERVICE - 1

4.3B (MF-17-04) ADVANCED AND ADDITIVE MANUFACTURING AND MATERIAL TECHNOLOGIES - 4 (WITH CS-29)

4.3C (DA-23-01) 2ND AI SYMPOSIUM: AI FOR THE DESIGN AND ANALYSIS OF PRESSURE VESSELS AND PIPING - 1 (WITH DA-01)

4.3D (MF-06-02) MATERIALS AND TECHNOLOGIES FOR NUCLEAR POWER PLANTS - 2

4.3E (FSI-02-04) FLOW-INDUCED VIBRATION - 4

4.3H (CT-08-01) NEW AND EMERGING METHODS OF ANALYSIS AND APPLICATIONS - 1 (WITH CT-02, DA-11, & FSI-01)

4.3N (MF-07-01) CODE FATIGUE DESIGN CRITERIA AND ENVIRONMENTAL EFFECTS - 1/THERMAL FATIGUE & THERMAL STRESS EFFECTS (WITH CS-16 & DA-07)

4.3P (TW-01-13) EPRI-ASME-AWS WORKSHOP: PERFORMANCE OF WELDS IN THE ENERGY SECTOR - PART 5

Block 4.4: Thursday, July 23, 2026 (4:15 pm - 6:00 pm)

4.4A (AE-04-02) MATERIALS FOR CRYOGENIC HYDROGEN SERVICE - 2

4.4B (AE-07-06) PANEL SESSION: KNOWLEDGE GAPS IN ENGINEERING OF CRITICAL INFRASTRUCTURE FOR HYDROGEN COMPATIBILITY

4.4C (DA-23-02) 2ND AI SYMPOSIUM: AI FOR THE DESIGN AND ANALYSIS OF PRESSURE VESSELS AND PIPING - 2 (WITH DA-08)

4.4P (TW-01-14) EPRI-ASME-AWS WORKSHOP: PERFORMANCE OF WELDS IN THE ENERGY SECTOR - PART 6

DAILY SESSION LISTING

Sessions are arranged in Session Blocks in the format X.YZ, where: X indicates the Day, Y indicates the Session Block, and Z indicates the Conference Session Room. Conference Session Rooms are as follows: A = Pacific B; B = California A; C = California B; D = Sunset; E = Salinas; F = Monterey; G = Carmel; H = San Simeon B; I = San Simeon A; J = Avila B; K = Avila A; L = El Capitan A; M = El Capitan B; N = Malibu; O = Santa Monica; P = Pacific A; Q = Pacific/California Foyers; R = California C. The parenthetical designations are the Technical Committee session references.

The Technical Committee and other acronyms used are shown below:

- AI = Artificial Intelligence
- CS = Codes & Standards
- CT = Computer Technology & Bolted Joints
- DA = Design & Analysis
- FSI = Fluid–Structure Interaction
- HT = High Pressure Technology
- MF = Materials & Fabrication
- NDE = ASME NDE, Diagnosis and Prognosis Division
- OAC = Operations Applications, & Components
- PS = Plenary Session
- SE = Seismic Engineering
- TE = Technology Exhibits
- TW = Technical Tutorials
- WO = Welcome and Orientation Session

Note: Unless specifically listed in the individual sessions below, all sessions are sponsored by the indicated Technical Committee.

SUNDAY, JULY 19

Block 0.1: Sunday, July 19, 2026 (8:00 am – 9:45 am)

SESSION 0.1P (TW-01-01)

Sunday, July 19, 8:00 am – 9:45 am, Pacific A

TECHNICAL TUTORIAL: INTRODUCTION TO ASME SECTION VIII, DIVISION 2, PART 5 – DESIGN BY ANALYSIS - PART 1

Chair: Trevor Seipp, Becht, Okotoks, AB, Canada
Co-Chair: Andrew Duncan, Savannah River National Laboratory, Aiken, SC, USA

Block 0.2: Sunday, July 19, 2026 (10:00 am – 12:00 pm)

SESSION 0.2P (TW-01-02)

Sunday, July 19, 10:00 am – 11:45 pm, Pacific A

TECHNICAL TUTORIAL: INTRODUCTION TO ASME SECTION VIII, DIVISION 2, PART 5 – DESIGN BY ANALYSIS - PART 2

Chair: Trevor Seipp, Becht, Okotoks, AB, Canada
Co-Chair: Andrew Duncan, Savannah River National Laboratory, Aiken, SC, USA

Block 0.3: Sunday, July 19, 2026 (1:00 pm – 2:45 pm)

SESSION 0.3P (TW-01-03)

Sunday, July 19, 12:45 pm – 2:30 pm, Pacific A

TECHNICAL TUTORIAL: INTRODUCTION TO ASME SECTION VIII, DIVISION 2, PART 5 – DESIGN BY ANALYSIS - PART 3

Chair: Trevor Seipp, Becht, Okotoks, AB, Canada
Co-Chair: Andrew Duncan, Savannah River National Laboratory, Aiken, SC, USA

Block 0.4: Sunday, July 19, 2026 (3:00 pm – 5:00 pm)

SESSION 0.4P (TW-01-04)

Sunday, July 19, 2:45 pm – 4:00 pm, Pacific A

TECHNICAL TUTORIAL: INTRODUCTION TO ASME SECTION VIII, DIVISION 2, PART 5 – DESIGN BY ANALYSIS - PART 4

Chair: Trevor Seipp, Becht, Okotoks, AB, Canada
Co-Chair: Andrew Duncan, Savannah River National Laboratory, Aiken, SC, USA

MONDAY, JULY 20

Block 1.1: Monday, July 20, 2026 (8:00 am – 9:45 am)

SESSION 1.1R (WO-01-01)

Monday, July 20, 8:00 am – 9:45 am, California C

WELCOME AND ORIENTATION

Developed by: David Gross, Dominion Engineering, Inc., Reston, VA, USA; Kannan Subramanian, Structural Integrity Associates, Inc., Metairie, LA, USA; Clay D. Rodery, C&S Technology LLC, League City, TX, USA
Presented by: David Gross, Dominion Engineering, Inc., Reston, VA, USA; Kannan Subramanian, Structural Integrity Associates, Inc., Metairie, LA, USA; Clay D. Rodery, C&S Technology LLC, League City, TX, USA

SESSION 1.1Q (TE-01-01)

Monday, July 20, 8:00 am – 9:45 am, Pacific/California Foyers

TECHNOLOGY EXHIBITS - 1

Block 1.2: Monday, July 20, 2026 (10:15 am – 12:00 pm)

SESSION 1.2R (PS-01-01)

Monday, July 20, 10:15 am – 12:00 pm, California C

OPENING CEREMONY AND PLENARY LECTURES

Developed by: David Gross, Dominion Engineering, Inc., Reston, VA, USA; Kannan Subramanian, Structural Integrity Associates, Inc., Metairie, LA, USA
Chair: David Gross, Dominion Engineering, Inc., Reston, VA, USA
Co-Chair: Kannan Subramanian, Structural Integrity Associates, Inc., Metairie, LA, USA

SMART ENGINEERING: AI FOR DESIGN, COMPLIANCE, AND SAFETY ASSURANCE

Nawal Prinja, Prinja and Partners, Limited, Gatley, United Kingdom

ADVANCED REACTORS: ADDRESSING THE EXPANSION OF DATA CENTERS/AI COMPUTING AND POWER NEEDS

Maury A. Pressburger, Sargent & Lundy, Chicago, IL, USA

SESSION 1.2Q (TE-01-02)

Monday, July 20, 10:15 am – 12:00 pm, Pacific/California Foyers

TECHNOLOGY EXHIBITS - 2

Block 1.3: Monday, July 20, 2026 (2:00 pm – 3:45 pm)

SESSION 1.3A (AE-07-01)

Monday, July 20, 2:00 pm – 3:45 pm, Pacific B

MATERIAL TESTING FOR HYDROGEN SERVICE - 1

Developed by: Chris San Marchi, Sandia National Laboratories, Livermore, CA, USA; Robert Wheeler, DNV, Dublin, OH, USA
Chair: Ramgopal Thodla, DNV, Dublin, OH, USA
Co-Chair: Quinten Yurek, Sandia National Laboratories, Livermore, CA, USA

PVP2026-175087: CREEP DEFORMATION BEHAVIOR OF SUS304 AUSTENITIC STAINLESS STEEL IN HIGH-TEMPERATURE HYDROGEN GAS ENVIRONMENT

Kojiro Motoyama, Kentaro Okumura, Daichi Kano, Kawasaki Heavy Industries, Ltd., Akashi City, Japan; Kentaro Wada, Masanobu Kubota, Kyushu University, Nishi-ku, Japan

PVP2026-179860: FATIGUE CRACK INITIATION AND LIFE OF ASME SA-372 STEEL IN HIGH-PRESSURE GASEOUS HYDROGEN
Paolo Bortot, Mihaela E. Cristea, Matteo Ortolani, Tenaris, Dalmine, Italy; Chris San Marchi, Joseph Ronevich, Sandia National Laboratories, Livermore, CA, USA

PVP2026-175536: FRACTURE RESISTANCE OF CORROSION-RESISTANT ALLOYS AT ELEVATED TEMPERATURE WITH INTERNAL HYDROGEN
Joseph Ronevich, Chris San Marchi, Michelle Kent, Sandia National Laboratories, Livermore, CA, USA; Santosh Narasimhachary, Siemens Energy, Charlotte, NC, USA; Frans Palmert, Siemens Energy, Finspang, Sweden; Shilun Sheng, Stefan Wanjura, Siemens Energy, Mülheim an der Ruhr, Germany

PVP2026-176054: FEASIBILITY OF WELDED X80 CASINGS FOR HYDROGEN STORAGE
Jesse Rhodes, Jerry Kovacich, Jim Hansen, Brandon Gerst, Edison Welding Institute, Columbus, OH, USA; Stanislav Lundiak, Shell, Amsterdam, Netherlands; Jorge Penso, Shell, Houston, TX, USA

SESSION 1.3B (CT-01-01)

Monday, July 20, 2:00 pm – 3:45 pm, California A

THE JAMES R. PAYNE MEMORIAL SESSION ON DESIGN AND ANALYSIS OF BOLTED FLANGE JOINTS - 1

Developed by: Manfred Schaaf, AMTEC GmbH, Lauffen, Germany; Stefano Fini, University of Bologna, Bologna, Italy; Dale Norman, Teadit, Houston, TX, USA
Chair: Yasumasa Shoji, YS Corporation LLC, Mushashino, Japan
Co-Chair: Carlos Daniel Girão Barroso, Teadit, Itatiba, Brazil

PVP2026-174966: IMPROVEMENT OF THE GASKET CREEP-RELAXATION MANAGEMENT IN THE EUROPEAN GASKETED BOLTED FLANGE STANDARD THROUGH CONSTITUTIVE MODELLING
Hubert Lejeune, CETIM, Nantes, France

PVP2026-180001: PERFORMANCE EVALUATION OF RECOVERY-TYPE GASKETS UNDER THERMAL CYCLING CONDITIONS
Carlos Daniel Girão Barroso, Igor Meira, Teadit, Itatiba, Brazil; Leonardo De La Roca, Teadit, Rio de Janeiro, Brazil; Dale Norman, Teadit, Houston, TX, USA

PVP2026-179219: FROM TEST DATA TO TIGHTNESS PROOF: ALIGNING GASKET CHARACTERIZATION ACROSS ASME AND EN STANDARDS
Stefan Hufnagel, Amtec North America, Inc., Athens, OH, USA

PVP2026-175192: THE MECHANICAL CHARACTERISTICS AND SEALING PERFORMANCE OF BOLTED PIPE FLANGE CONNECTIONS WITH MODIFIED METALLIC FLAT GASKETS SHAPES UNDER INTERNAL PRESSURE
Maksud Uddin Khan, Akira Muramatsu, Valqua, Ltd., Machida, Japan; Toshiyuki Sawa, Hiroshima University, Koto-City, Japan

SESSION 1.3C (AI-01-01)

Monday, July 20, 2:00 pm – 3:45 pm, California B

2ND AI SYMPOSIUM – PANEL SESSION: AI IN MECHANICAL ENGINEERING PRACTICE: DESIGN, MONITORING & OPERATIONS

Chair/Moderator: María Ortiz de Zúñiga López-Chicheri, Fusion for Energy, Barcelona, Spain
Co-Chair: Joaquin E. Moran, Stantec, Hamilton, ON, Canada
Panelists: Bing Li, Kinectrics, Inc., Toronto, ON, Canada
Lindsey Elliott, Nexterity Inc., Nutley, NJ, USA
Tobias Gleim, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany
Gianluca Quinci, Roma Tre University, Rome, Italy
Nawal Prinja, Prinja and Partners, Limited, Gatley, United Kingdom

SESSION 1.3F (CS-24-01)

Monday, July 20, 2:00 pm – 3:45 pm, Monterey

PROBABILISTIC AND RISK-INFORMED METHODS FOR STRUCTURAL INTEGRITY ASSESSMENT - 1

Developed by: Steven Xu, Kinectrics, Inc., Toronto, ON, Canada; David Rudland, Rudland Consulting, Frederick, MD, USA; Yinsheng Li, China National Nuclear Corporation, Naka, Japan; Cheng Liu, Kinectrics, Inc., Toronto, ON, Canada
Chair: Elizabeth Twombly, Dominion Engineering, Inc., Reston, VA, USA
Co-Chair: Do Jun Shim, EPRI, Palo Alto, CA, USA

PVP2026-180390: BENCHMARK ON CAST AUSTENITIC STAINLESS STEEL PROBABILISTIC FRACTURE MECHANICS MODELING (Presentation Only)
Troy Meurer, Markus Burkardt, Dominion Engineering, Inc., Reston, VA, USA; Do Jun Shim, EPRI, Palo Alto, CA, USA

PVP2026-183185: RECENT JAEA'S ACTIVITIES ON PRACTICAL USE OF PROBABILISTIC FRACTURE MECHANICS
Jinya Katsuyama, Japan Atomic Energy Agency (JAEA), Naka, Japan; Yoshihito Yamaguchi, Japan Atomic Energy Agency (JAEA), Tokai-Mura, Japan; Hisashi Takamizawa, Akihiro Mano, Japan Atomic Energy Agency (JAEA), Tokai, Japan

PVP2026-178812: IMPLEMENTATION OF ENHANCED UNCERTAINTY ANALYSIS INTO PROBABILISTIC FITNESS-FOR-SERVICE EVALUATIONS OF PRESSURE TUBES IN CANDU REACTORS (Presentation Only)
Leonid Gutkin, Christopher Manu, Kinectrics, Inc., Toronto, ON, Canada

PVP2026-179382: INCORPORATION OF GLOBAL SENSITIVITY ANALYSIS INTO PROBABILISTIC EVALUATIONS OF PRESSURE TUBE LEAK-BEFORE-BREAK AND FRACTURE PROTECTION IN CANDU REACTORS
Christopher Manu, Leonid Gutkin, Kinectrics, Inc., Toronto, ON, Canada

SESSION 1.3G (DA-09-01)

Monday, July 20, 2:00 pm – 3:45 pm, Carmel

PIPING AND EQUIPMENT DYNAMICS AND DYNAMIC RESPONSE ANALYSIS - 1

Developed by: Pieter Van Beek, TNO, Rijswijk, Netherlands; Hao Jiang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Ashkan Eslaminejad, Structural Integrity Associates Inc., Englewood, CO, USA; Ian-Ty Cheong, Shell, Brisbane City, Australia; Raj Singh, Wood PLC, Brisbane City, Australia; Clifton Vining, Worley, Houston, TX, USA; Chengwen Wang, Wuhuan Engineering Co., Ltd., Wuhan, China
Chair: Hao Jiang, Oak Ridge National Laboratory, Oak Ridge, TN, USA
Co-Chair: Pieter Van Beek, TNO, Rijswijk, Netherlands

PVP2026-177221: DEVELOPMENT OF A GUIDELINE FOR MANAGING VIBRATION INDUCED FAILURES OF SMALL BORE SWAGED FITTINGS
Jihwan Kim, Raj Singh, Wood PLC, Brisbane City, Australia; Ian Cheong, Shell, Brisbane City, Australia; Jared Tan, Wood PLC, Perth, Australia; Adin Mann, Wood PLC, Cleveland Heights, OH, USA

PVP2026-183325: ANALYTICAL AND EXPERIMENTAL EVALUATION OF DAMPED SUPPORT SYSTEMS FOR REDUCING VIBRATION-INDUCED STRESS IN SOCKET WELD AT SMALL BORE PIPING CONNECTION JOINTS
Ashkan Nejad, Structural Integrity Associates Inc., Timnath, CO, USA; Stephen Tate, EPRI, Charlotte, NC, USA

PVP2026-183293: DEVELOPMENT AND VALIDATION OF AN EQUIVALENT-PIPE MODELING APPROACH FOR MULTI-PIPE SYSTEMS
Osama Elfar, Hesham Mohammed, Mahmoud Osman, Foad Rahimidehgolan, Yue (Luke) Liu, Next Structural Integrity Inc., Burlington, ON, Canada

PVP2026-181754: PRELIMINARY STUDY FOR STEAM GENERATOR TUBE WEAR ESTIMATION CONSIDERING IMPULSE RATES
Heejae Shin, KEPCO Engineering & Construction, Busan, Republic of Korea; Young-Jin Oh, KEPCO Engineering & Construction, Gimcheon-si, Republic of Korea; Daeyeop Kwon, Chi Bum Bahn, Pusan National University, Busan, Republic of Korea; Kuk-Hee Lee, Korea Hydro & Nuclear Power Co., Ltd. (KHNP), Daejeon, Republic of Korea

SESSION 1.3H (MF-03-01)

Monday, July 20, 2:00 pm – 3:45 pm, San Simeon B

WELDING RESIDUAL STRESS AND DISTORTION SIMULATION AND MEASUREMENT AND POST WELD HEAT TREAT EFFECTS - 1

Developed by: Frederick (Bud) Brust, Engineering Mechanics Corporation of Columbus, Columbus, OH, USA; David Rudland, Rudland Consulting, Frederick, MD, USA; Vincent Robin, EDF, Lyon, Rhône, France; Harry Coules, Amentum, Bristol, United Kingdom; Graeme Horne, Frazer-Nash Consultancy, Bristol, United Kingdom; Benjamin Pellereau, Rolls-Royce, Derby, United Kingdom
Chair: David Rudland, Rudland Consulting, Frederick, MD, USA
Co-Chair: Frederick (Bud) Brust, Engineering Mechanics Corporation of Columbus, Columbus, OH, USA

PVP2026-178352: ANALYSIS OF WELD RESIDUAL STRESS DISTRIBUTIONS WITH OPTIMIZED WELD OVERLAY
Hee-Gun Yum, Jun-Geun Park, Nam-Su Huh, Seoul National University of Science and Technology, Seoul, Republic of Korea

PVP2026-183231: COMPUTATIONAL WELD MODELING OF EMBEDDED FLAW REPAIRS IN CONTROL ROD DRIVE MECHANISM J-GROOVE WELDS
Frederick (Bud) Brust, Lance Hill, Engineering Mechanics Corporation of Columbus, Columbus, OH, USA; Jay Wallace, US Nuclear Regulatory Commission, Washington, DC, USA

PVP2026-183269: NUMERICAL ASSESSMENT OF MITIGATION STRATEGIES FOR REDUCING STRESS CORROSION CRACKING RISK IN AUSTENITIC STAINLESS STEEL WELDED JOINTS
Lucas Breder Teixeira, Vincent Robin, EDF, Lyon, Rhône, France; Sofiane Hendili, Josselin Delmas, Sami Hilal, EDF, Chatou, Yvelines, France; Eva Bres, Christelle Pourrier, Antonio Marquez, EDF, Marseille, France; Anais Gaubert, EDF, Saint-Denis, France

SESSION 1.3I (DA-08-01)

Monday, July 20, 2:00 pm – 3:45 pm, San Simeon A

FITNESS FOR SERVICE EVALUATIONS - 1

Developed by: Gysbert van Zyl, Integrity Engineering Solutions, Dunsborough, Australia; Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada; Abdelgader Abdelgalil, SABIC, Jubail, Saudi Arabia; Ali Ok, Honeywell, Allentown, PA, USA; Antonio Seijas, Phillips 66 Company, Houston, TX, USA; Daniel Blanks, Quest Integrity, Gold Coast, Queensland, Australia; Lorenzo Scano, S.S.I. s.r.l. - Studio Scano, Udine, Italy
Chair: Daniel Blanks, Quest Integrity, Gold Coast, Queensland, Australia
Co-Chair: Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada

PVP2026-175329: HYDROSTATIC TESTING OF PIPES WITH MACHINED LOCAL THIN AREAS AND STRUCTURAL DISCONTINUITIES
Yoichi Ishizaki, Idemitsu Kosan Co., Ltd., Shibuya, Japan; Hiroyasu Ameya, Idemitsu Kosan Co., Ltd., Chiba, Japan

PVP2026-179625: FITNESS FOR SERVICE ASSESSMENT OF A FORGED NOZZLE EXPOSED TO TEMPERATURE ABOVE THE CREEP THRESHOLD LIMIT
Muhammad Raheel Rafique, Petrokemya Arabian Petrochemical Co., Jubail, Eastern Province, Saudi Arabia

PVP2026-183517: VERIFYING ALLOWABLE REMAINING STRENGTH FACTOR IN FITNESS FOR SERVICE ASSESSMENT OF FIBER REINFORCED POLYMER PRESSURE EQUIPMENT
Karelle Guiao, Mark Putt, UTComp Inc, Cambridge, ON, Canada; Geoffrey Clarkson, UTComp Inc, Conception Bay South, NL, Canada

PVP2026-183172: ENABLING RAPID FITNESS-FOR-SERVICE OF COMPLEX STRUCTURES
Jamie Scanlan, Samuel Stephens, Quest Integrity, Varsity Lakes, Queensland, Australia; Daniel Blanks, Quest Integrity, Gold Coast, Queensland, Australia

SESSION 1.3J (MF-24-01)

Monday, July 20, 2:00 pm – 3:45 pm, Avila B

MATERIALS AND FABRICATION FOR REFINING - 1

Developed by: Deepak Mankar, Fluor, Houston, TX, USA; Richard Colwell, Bechtel, Richmond, TX, USA; Jorge Penso, Shell, Houston, TX, USA; Mitul Dalal, Shell, Houston, TX, USA
Chair: Deepak Mankar, Fluor, Houston, TX, USA
Co-Chair: Richard Colwell, Bechtel, Richmond, TX, USA

PVP2026-176232: ROOT CAUSE ANALYSIS AND CORRECTIVE ACTIONS FOR OUT-OF-ROUNDNESS IN HIGH-PRESSURE REACTORS
Yousef Alhannoush, Abdulrahman Alkhateeb, Mohammed Robai, Aramco, Dhahran, Saudi Arabia

PVP2026-176241: OUT-OF-STRAIGHTNESS IN PRESSURE VESSELS: CAUSES, ANALYSIS, AND CORRECTIVE ACTIONS
Yousef Alhannoush, Abdulrahman Alkhateeb, Fayez Al-Ghamdi, Aramco, Dhahran, Saudi Arabia

PVP2026-174960: DEVELOPMENT OF MATCHING WELDING FILLER FOR UNS S34752 FOR ELEVATED TEMPERATURE APPLICATIONS
Kenta Yamada, Tomoaki Hamaguchi, Shinnosuke Kurihara, Nippon Steel Corporation, Amagasaki, Japan; Masaki Ueyama, Nippon Steel Corporation, Chiyoda-ku, Japan; Katsuki Tanaka, Nippon Steel Corporation, Houston, TX, USA; Yuhei Suzuki, Nippon Steel Corporation, Düsseldorf, Germany; Takahiro Osuki, Nippon Steel Corporation, Futtsu-Shi, Japan

PVP2026-176687: ASSESSMENT OF ALTERNATIVE WELDING MATERIALS' SELECTION FOR HIGH-PERFORMANCE STAINLESS STEELS AND ALLOY COMPONENTS
Atsushi Takahashi, Takahiro Tsuda, JGC Corporation, Yokohama, Japan

SESSION 1.3K (DA-12-01)

Monday, July 20, 2:00 pm – 3:45 pm, Avila A

FRACTURE - 1

Developed by: Ali Ok, Honeywell, Allentown, PA, USA; Shunji Kataoka, JGC Corporation, Yokohama, Japan; Darren Pinto, Schenck Products, Sabetha, KS, USA; Qin Ma, Walla Walla University, College Place, WA, USA; Shane Finneran, DNV, Columbus, OH, USA
Chair: Ali Ok, Honeywell, Allentown, PA, USA
Co-Chair: Shunji Kataoka, JGC Corporation, Yokohama, Japan

PVP2026-176501: A CONSTRAINT-BASED JC-T11-T33 APPROACH TO PREDICT FRACTURE TOUGHNESS FOR VARIOUS CRACKED SPECIMENS
Wangling Fu, Kai Lu, Fuzhou University, Fuzhou, China

PVP2026-179754: ROBUST CRACK PROPAGATION WITH X-FEM: A STUDY OF THE IMPACT OF THE LEVEL SET ERROR ON THE RESULTS
Noé Poyet, Pascal Duranton, Framatome, Courbevoie, France; Olivier Ancelet, Framatome, Paris La Défense, France; Eric Feulvarch, ENISE, Saint-Étienne, France

PVP2026-175942: A PROPOSED WEIGHT FUNCTION METHOD FOR THROUGH-THICKNESS CRACKS SUBJECT TO ARBITRARY STRESS DISTRIBUTION
Steven Altstadt, Becht, Fargo, ND, USA

PVP2026-180164: DUCTILE TEAR ANALYSES OF STAINLESS-STEEL PIPING WITH 3D CRACK MODEL: COMPARISON BETWEEN FINITE ELEMENT MODEL RESULTS (FEM) AND EXTENDED FINITE ELEMENT MODEL RESULTS (X-FEM)
Frédéric Poncet, Moïse Pignol, Komlanvi Madou, Yann Maumen, Framatome, Lyon, France

SESSION 1.3L (SE-01-01)

Monday, July 20, 2:00 pm – 3:45 pm, El Capitan A

THE MICHAEL E. NITZEL MEMORIAL SYMPOSIUM ON SEISMIC ENGINEERING: EARTHQUAKE RESISTANCE AND SEISMIC MARGIN - 1 (WITH SE-02)

Developed by: Tomoyo Taniguchi, Tottori University, Tottori, Japan; Akira Maekawa, Osaka Sangyo University, Osaka, Japan; Izumi Nakamura, Tokyo City University, Setagaya, Japan

Chair: Tomoyo Taniguchi, Tottori University, Tottori, Japan
Co-Chair: Osamu Furuya, Tokyo Denki University, Tokyo, Japan

PVP2026-179523: THE EFFECTIVE MASS OF LIQUID FOR RESTORING ACTION
Tomoyo Taniguchi, Tottori University, Tottori, Japan; Yuichi Yoshida, National Research Institute of Fire and Disaster, Chofu, Japan

PVP2026-178494: FREE ROCKING EXPERIMENTS OF CYLINDRICAL TANKS FOR VALIDATION OF THE EFFECTIVE MOMENT OF INERTIA OF CONTENT LIQUID
Yuichi Yoshida, National Research Institute of Fire and Disaster, Chofu, Japan; Tomoyo Taniguchi, Tottori University, Tottori, Japan

PVP2026-195754: EXPERIMENTAL AND NUMERICAL INVESTIGATION ON THE SHEAR BEHAVIOR OF CYLINDRICAL AND PLANAR REINFORCED AND POST-TENSIONED CONCRETE WALLS (Presentation Only)
Hyeon Keun Yang, Korea Atomic Energy Research Institute (KAERI), Daejeon, Republic of Korea

PVP2026-178351: SHAKING TESTS OF A LIQUID STORAGE TANK SEISMICALLY ISOLATED BY FRICTION PENDULUM SYSTEM
Go Yamamoto, Shun Terauchi, Go Tanaka, Oiles Corporation, Ashikaga, Japan; Keisuke Minagawa, Saitama Institute of Technology, Saitama, Japan; Yuichi Yoshida, National Research Institute of Fire and Disaster, Chofu, Japan

SESSION 1.3M (MF-25-01)
Monday, July 20, 2:00 pm – 3:45 pm, El Capitan B
HIGH STRENGTH STEELS FOR PRESSURE VESSELS AND PIPING APPLICATIONS - 1
Developed by: M. Kevin Mandeville Jr., DNV, Katy, TX, USA; Sylvain Pillot, Le Creusot, Bourgogne-Franche-Comté, France
Chair: M. Kevin Mandeville Jr., DNV, Katy, TX, USA
Co-Chair: Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA

PVP2026-179569: NUMERICAL STUDY ON HYDROGEN DISTRIBUTION CHARACTERISTICS AT THE CRACK TIP DURING HYDROGEN-INDUCED CRACKING OF CR-MO STEEL
Dongyang Liu, Ruiming Zhang, Wenzhu Peng, Kai Ma, Zhejiang University, Hangzhou, China

PVP2026-175234: A MULTISCALE PERSPECTIVE ON PREDICTING IRRADIATION-INDUCED MECHANICAL DEGRADATION IN LOW ALLOY STEELS
Min Jeong Park, Yoon-Suk Chang, Kyung Hee University, Yongin-si, Republic of Korea

PVP2026-175151: COMPARISON OF EQUILIBRIUM HEAT TREATMENT MODELS TO TIME-RESOLVED EXPERIMENTAL ANALYSES FOR A FE-MN-NI-C MULTI-CONSTITUENT AUSTENITE-CONTAINING STEEL
Caleb Minasian, Joshua Mueller, Michigan Technological University, Houghton, MI, USA; Joshem Gibson, Los Alamos National Laboratory, Los Alamos, NM, USA

PVP2026-178155: VARIATION OF STRENGTH AND LOW-TEMPERATURE IMPACT TOUGHNESS IN QUENCH AND TEMPERED THICK-SECTION HSLA-100 FORGINGS (Presentation Only)
Joshua Mueller, Michigan Technological University, Houghton, MI, USA; Virginia Euser, Joshem Gibson, Los Alamos National Laboratory, Los Alamos, NM, USA

SESSION 1.3N (DA-15-01)
Monday, July 20, 2:00 pm – 3:45 pm, Malibu
10TH INTERNATIONAL SYMPOSIUM ON COKE DRUM LIFE CYCLE MANAGEMENT - 1
Developed by: Antonio Seijas, Phillips 66 Company, Houston, TX, USA; Clay Rodery, C&S Technology LLC, League City, TX, USA; Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA; Trevor Seipp, Becht, Okotoks, AB, Canada
Chair: Antonio Seijas, Phillips 66 Company, Houston, TX, USA
Co-Chair: Nathan Barkley, Refined Engineering, Tupelo, MS, USA

PVP2026-174722: COKE DRUM BLOWDOWN LINE OPTIMIZATION FOR RELIABILITY AND FATIGUE RESISTANCE
John Fernando, Henry Kwok, Leanne Wong, Luke Chan, Zachry Integrity Engineering Ltd, Calgary, AB, Canada; Millar Iverson, Simon Yuen, Suncor Energy Inc, Calgary, AB, Canada; Jorge Penso, Mitul Dalal, Shell, Houston, TX, USA

PVP2026-174723: A NOVEL APPROACH TO DELAY COKE DRUM KEYHOLE CRACKING USING STIFFENING BARS
John Fernando, Henry Kwok, Luke Chan, Zachry Integrity Engineering Ltd, Calgary, AB, Canada; Feng Ju, Millar Iverson, Simon Yuen, Suncor Energy Inc, Calgary, AB, Canada; Federico Hernandez, Suncor Energy Inc, Sherwood Park, AB, Canada

SESSION 1.3O (CS-01-01)
Monday, July 20, 2:00 pm – 3:45 pm, Santa Monica
STRUCTURAL INTEGRITY OF PRESSURE COMPONENTS - 1
Developed by: Michael Benson, US Nuclear Regulatory Commission, Rockville, MD, USA; Steven Xu, Kinectrics, Inc., Toronto, ON, Canada
Chair: Steven Xu, Kinectrics, Inc., Toronto, ON, Canada
Co-Chair: Ray Pace, Aecon Engineering Services, Inc., Boston, MA, USA

PVP2026-175613: A FRACTURE MECHANICS INTERPRETATION OF ASME BPVC SECTION VIII DIVISION 1 TOUGHNESS RULES
Kang Xu, Linde Inc., Tonawanda, NY, USA; Mahendra Rana, Consultant, Niantic, CT, USA

PVP2026-179527: NUMERICAL INVESTIGATION ON STRESS INTENSITY FACTOR FOR UNDERCLAD CRACK IN REACTOR PRESSURE VESSEL NOZZLE SUBJECTED TO THERMAL TRANSIENT
Kai Lu, Xuesen Li, Fuzhou University, Fuzhou, China

PVP2026-182570: BACKGROUND ON DEVELOPMENT OF THE CSA STANDARD N285.8 FOR FITNESS-FOR-SERVICE EVALUATION OF CANDU ZR-2.5NB PRESSURE TUBES
Dave Graham, Douglas Scarth, Steven Xu, Preeti Doddihal, Kinectrics, Inc., Toronto, ON, Canada; Jessica Lam, Ontario Power Generation, Toronto, ON, Canada

PVP2026-180159: BACKGROUND TO FLAW EVALUATION PROCEDURES IN CSA N285.8 FOR CANDU PRESSURE TUBES
Jessica Lam, Ontario Power Generation, Toronto, ON, Canada; Steven Xu, Douglas Scarth, Preeti Doddihal, Dave Graham, Kinectrics, Inc., Toronto, ON, Canada

SESSION 1.3P (TW-01-05)
Monday, July 20, 2:00 pm – 3:45 pm, Pacific A
TECHNICAL TUTORIAL: STRUCTURAL DYNAMICS FOR EXTREME LOADING EVENTS OF VESSELS AND PIPING - PART 1
Chair: Robert Valdiviez, Applied Mechanics Engineering, LLP, Orange, CA, USA
Co-Chair: Andrew Duncan, Savannah River National Laboratory, Aiken, SC, USA

SESSION 1.3Q (TE-01-03)
Monday, July 20, 2:00 pm – 3:45 pm, Pacific/California Foyers
TECHNOLOGY EXHIBITS - 3

Block 1.4: Monday, July 20, 2026 (4:15 pm – 6:00 pm)

SESSION 1.4A (AE-07-02)
Monday, July 20, 4:15 pm – 6:00 pm, Pacific B
MATERIAL TESTING FOR HYDROGEN SERVICE - 2
Developed by: Chris San Marchi, Sandia National Laboratories, Livermore, CA, USA; Robert Wheeler, DNV, Dublin, OH, USA

Chair: Greg Pioszak, ExxonMobil Technology & Engineering Company, Houston, TX, USA
Co-Chair: Birhan Sefer, Swerim AB, Knivsta, Sweden

PVP2026-179831: EVALUATION OF THE BEHAVIOR OF PIPELINE STEELS AND ASSOCIATED WELDS IN HYDROGEN
Jonathan Parker, Michael Gagliano, EPRI, Charlotte, NC, USA; Robert Best, National Gas, Warwick, United Kingdom

PVP2026-177176: HYDROGEN-ASSISTED FRACTURE RESPONSE OF PIPELINE STEEL: COMPARISON OF COMPACT TENSION (CT) AND SINGLE-EDGE NOTCH TENSION (SENT) SPECIMENS
Michelle Kent, Joseph Ronevich, Chris San Marchi, Sandia National Laboratories, Livermore, CA, USA

PVP2026-182763: FATIGUE LIFE AND CRACK GROWTH BEHAVIOR OF A FERRITIC-BAINITIC STEEL IN GASEOUS HYDROGEN
Eduard Navalles, Birhan Sefer, Nuria Fuertes, Swerim AB, Kista, Sweden; Esa Virolainen, SSAB Europe OY, Raahe, Finland; Caroline Klar-Jaans, SSAB EMEA AB, Borlänge, Sweden; Joseph Ronevich, Chris San Marchi, Sandia National Laboratories, Livermore, CA, USA

PVP2026-179788: INFLUENCE OF INTERNAL AND EXTERNAL HYDROGEN ON THE FATIGUE PERFORMANCE OF TWO NICKEL-BASE ALLOYS AT ROOM TEMPERATURE
Pavan Kumar Dasari, MPA Stuttgart, Stuttgart, Germany; Sandra Stolz, Ruhr-Universität Bochum, Bochum, Germany; Alexander Luithle, Siemens Energy, Muelheim an der Ruhr, Germany; Brian Kagay, Stefan Weihe, Materials Testing Institute, University of Stuttgart (MPA), Stuttgart, Germany

SESSION 1.4B (CT-01-02)

Monday, July 20, 4:15 pm – 6:00 pm, California A
DESIGN AND ANALYSIS OF BOLTED FLANGE JOINTS - 2
Developed by: Manfred Schaaf, AMTEC GmbH, Lauffen, Germany; Stefano Fini, University of Bologna, Bologna, Italy; Dale Norman, Teadit, Houston, TX, USA
Chair: Hubert Lejeune, CETIM, Nantes, France
Co-Chair: Yasumasa Shoji, YS Corporation LLC, Mushashino, Japan

PVP2026-179638: STUDY OF STEAM DRUM MANWAY LEAK TIGHTNESS
Gonghyun Jung, Shell, Katy, TX, USA; Aditya Shetgaonkar, Shell, Chennai, India; Stu Scully, Shell, Monaca, PA, USA

PVP2026-176786: A HIGH-FIDELITY, INTEGRATED SIMULATION METHODOLOGY FOR PREDICTING GASKET LEAK RATES DURING HIGH-RISK MAINTENANCE OPERATIONS
Manh Quynh Vo, Pham Nhat Quang Huynh, Thanh Loi Nguyen, Vinh Phat Luu, David Knezevic, Akselos S.A., Lausanne, Vaud, Switzerland; Atul Lohar, Vikaskumar Jansari, Piyush Prasad, Qatar Shell GTL Limited, Doha, Qatar

PVP2026-176640: TIGHTENING PROCEDURE USING MULTIPLE TOOLS OF BOLTED CONNECTIONS WITH GASKET
Koji Sato, Nord-Lock, Minoh-Shi, Japan; Masato Takenaka, Wan Yang, Nord-Lock, Minoo, Japan; Fabbro Lee, Nord-Lock, Haeundae-Gu, Republic of Korea; James Yang, Allen Zhang, Nord-Lock, North Shaanxi Road, China

PVP2026-176073: VERIFICATION OF INFLUENTIAL FACTORS ON SPONTANEOUS LOOSENING TORQUE AT BOLTED JOINTS DURING VIBRATION CONDITIONS
Masato Takenaka, Nord-Lock, Minoo, Japan; Koji Sato, Daiki Asada, Nord-Lock, Minoh-Shi, Japan; Fabbro Lee, Nord-Lock, Haeundae-Gu, Republic of Korea; Bernard Heng, Nord-Lock, Jalan Stesen Sentral 2, Malaysia

SESSION 1.4C (MF-37-01)

Monday, July 20, 4:15 pm – 6:00 pm, California B
2ND AI SYMPOSIUM: APPLICATIONS OF ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, AND DATA ANALYSIS IN MATERIALS AND FABRICATION - 1 (WITH MF-16)
Developed by: Maria Ortiz De Zúñiga López-Chicheri, Fusion for Energy, Barcelona, Spain; Paul Korinko, Savannah River National Laboratory, Aiken, SC, USA; Xian-Kui Zhu, Savannah River National Laboratory, Aiken, SC, USA; M. Kevin Mandeville Jr., DNV, Katy, TX, USA; Dongmei (Donna) Sun, Liburdi Group of Companies, Guelph, ON, Canada; Qin Ma, Walla Walla University, College Place, WA, USA
Chair: Qin Ma, Walla Walla University, College Place, WA, USA
Co-Chair: M. Kevin Mandeville Jr., DNV, Katy, TX, USA

PVP2026-179926: A MACHINE LEARNING APPROACH TO MECHANICAL PROPERTY PREDICTION FOR THERMALLY AGED STAINLESS STEEL NUCLEAR COMPONENTS
Samuel Eka, Norman Paton, Andrew Sherry, Ed Pickering, University of Manchester, Manchester, United Kingdom; Michael Martin, Rolls-Royce, Derby, United Kingdom

PVP2026-179810: APPLICATION OF MACHINE LEARNING FOR PREDICTING RADIOLOGICALLY SIGNIFICANT IMPURITIES IN OFF-THE-SHELF MATERIALS
Liese Boogaerts, ATG, Barcelona, Spain; Maria Ortiz De Zúñiga López-Chicheri, Raul Pampin Garcia, Fusion for Energy, Barcelona, Spain

PVP2026-179885: VALIDATION OF BAYESIAN OPTIMISATION APPLIED TO A THICK-SECTION JOINING PROCESS (Presentation Only)
Greg Nelson, Steve Lawler, Brett Friskney, Frazer-Nash Consultancy, Burton-on-Trent, United Kingdom

PVP2026-179606: USING MACHINE LEARNING WITH A TIME-TEMPERATURE PARAMETER METAMODEL FOR IMPROVED CREEP RUPTURE PREDICTION (Presentation Only)
Zakia Al Kadri, Mohammad Shafinul Haque, Angelo State University, San Angelo, TX, USA

SESSION 1.4F (CS-24-02)

Monday, July 20, 4:15 pm – 6:00 pm, Monterey
PROBABILISTIC AND RISK-INFORMED METHODS FOR STRUCTURAL INTEGRITY ASSESSMENT - 2
Developed by: Steven Xu, Kinectrics, Inc., Toronto, ON, Canada; David Rudland, Rudland Consulting, Frederick, MD, USA; Yinsheng Li, China National Nuclear Corporation, Naka, Japan; Cheng Liu, Kinectrics, Inc., Toronto, ON, Canada
Chair: Nathan Glunt, EPRI, Charlotte, NC, USA
Co-Chair: David Rudland, Rudland Consulting, Frederick, MD, USA

PVP2026-178729: LESSONS LEARNED FROM THE DEVELOPMENT OF PROBABILISTIC FRACTURE MECHANICS SOFTWARE
David Rudland, Rudland Consulting, Frederick, MD, USA; Markus Burkardt, Dominion Engineering, Inc., Reston, VA, USA; Cedric Sallaberry, Structural Integrity Associates Inc., Columbus, OH, USA; Nathan Glunt, EPRI, Charlotte, NC, USA

PVP2026-176377: SENSITIVITY STUDIES ON FAILURE FREQUENCY OF JAPANESE RPV SUBJECTED TO A PTS EVENT REGARDING UNCERTAINTY OF WELD RESIDUAL STRESS
Akihiro Mano, Hisashi Takamizawa, Japan Atomic Energy Agency (JAEA), Tokai, Japan

PVP2026-180206: PROBABILISTIC MODELLING OF RESIDUAL STRESS USING FUNCTIONAL DATA ANALYSIS
Georgia Schneider, Yin Jin Janin, TWI Ltd., Cambridge, United Kingdom

PVP2026-180208: FLAW DISTRIBUTIONS IN ELECTRO-BEAM WELDS
Georgia Schneider, Yin Jin Janin, TWI Ltd., Cambridge, United Kingdom

SESSION 1.4G (DA-09-02)

Monday, July 20, 4:15 pm – 6:00 pm, Carmel
PIPING AND EQUIPMENT DYNAMICS AND DYNAMIC RESPONSE ANALYSIS - 2
Developed by: Pieter Van Beek, TNO, Rijswijk, Netherlands; Hao Jiang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Ashkan Eslaminejad, Structural Integrity Associates Inc., Englewood, CO, USA; Ian-Ty Cheong, Shell, Brisbane City, Australia; Raj Singh, Wood PLC, Brisbane City, Australia; Clifton Vining, Worley, Houston, TX, USA; Chengwen Wang, Wuhuan Engineering Co., Ltd., Wuhan, China

Chair: Pieter Van Beek, TNO, Rijswijk, Netherlands
Co-Chair: Hao Jiang, Oak Ridge National Laboratory, Oak Ridge, TN, USA

PVP2026-180114: TUNED MASS DAMPER AS A COST-EFFECTIVE MITIGATION FOR EXCESSIVE PIPING VIBRATION
Martin Agar, Wood PLC, Kuala Lumpur, Malaysia; Diane-Aren Sagan, Sarawak Shell Berhad, Miri, Malaysia; Juan Torres, Wood PLC, Calgary, AB, Canada

PVP2026-179965: A MORE ACCURATE DYNAMIC LOAD FACTOR FOR OVERPRESSURE BLAST LOADS ON PRESSURE VESSELS
Jacob Hundl, Kenneth Kirkpatrick, Bryan Mosher, James Lu, Fluor, Houston, TX, USA; Barry Millet, Retired, Pasadena, TX, USA

PVP2026-179841: DEVELOPMENT OF A LOAD STRESS FACTOR (KL) FOR EQUIVALENT STATIC LOAD (ESL) ANALYSIS IN PIPING SYSTEMS
Chris Harper, Wood PLC, Calgary, AB, Canada

PVP2026-179661: DEVELOPMENT OF A COMPREHENSIVE GUIDELINE FOR VIBRATION INDUCED FATIGUE OF SWAGED SMALL BORE TUBING CONFIGURATIONS
Jihwan Kim, Raj Singh, Wood PLC, Brisbane City, Australia; Ian Cheong, Shell, Brisbane City, Australia; Jared Tan, Wood PLC, Perth, Australia; Adin Mann, Wood PLC, Cleveland Heights, OH, USA

SESSION 1.4H (MF-38-01)

Monday, July 20, 4:15 pm – 6:00 pm, San Simeon B
WELD FAILURE SYMPOSIUM FOR ENERGY GENERATION SECTOR - 1
Developed by: John Siefert, EPRI, Charlotte, NC, USA; Darren Barborak, EPRI, Charlotte, NC, USA; Jorge Penso, Shell, Houston, TX, USA
Chair: Yanfei Gao, University of Tennessee, Knoxville, TN, USA
Co-Chair: Kaue Riffel, Ohio State University, Columbus, OH, USA

PVP2026-179668: A SUSCEPTIBILITY INDEX FOR STRESS RELAXATION CRACKING: MONKMAN-GRANT ANALYSIS AND EXAMPLE STUDY
Xiaping Fan, c.a. Kocak, Yanfei Gao, University of Tennessee, Knoxville, TN, USA; Timothy Pickle, Zhenzhen Yu, Colorado School of Mines, Golden, CO, USA; Jorge Penso, Shell, Houston, TX, USA; Zhili Feng, Oak Ridge National Laboratory, Oak Ridge, TN, USA

PVP2026-183242: NEXT-GENERATION IN-SERVICE WELDING: MULTIPHYSICS SIMULATION AND MODERN WELDING SOLUTIONS FOR INDUSTRY TRANSFORMATION
Kaue C. Riffel, Amit Ghosh, Soheil Soghrati, Antonio J. Ramirez, The Ohio State University, Columbus, OH, USA; Jorge Penso, Shell, Houston, TX, USA

PVP2026-183412: STRESS RELAXATION CRACKING - ONGOING CHALLENGES WITH HIGH-TEMPERATURE FAILURE OF AUSTENITIC STAINLESS STEEL AND NICKEL ALLOY WELDMENTS (Presentation Only)
Dorothy Winful, Kasra Sotoudeh, Mike Gittos, TWI Ltd., Cambridge, United Kingdom; Jan-Willem Rensman, Fluor, Hoofddorp, Netherlands

SESSION 1.4I (DA-08-02)

Monday, July 20, 4:15 pm – 6:00 pm, San Simeon A
FITNESS FOR SERVICE EVALUATIONS - 2
Developed by: Gysbert van Zyl, Integrity Engineering Solutions, Dunsborough, Australia; Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada; Abdelgader Abdelgalil, SABIC, Jubail, Saudi Arabia; Ali Ok, Honeywell, Allentown, PA, USA; Antonio Seijas, Phillips 66 Company, Houston, TX, USA; Daniel Blanks, Quest Integrity, Gold Coast, Queensland, Australia; Lorenzo Scano, S.S.I. s.r.l. - Studio Scano, Udine, Italy
Chair: Andrew Owens, TerraPower LLC, Round Rock, TX, USA
Co-Chair: Muhammad Raheel Rafique, Petrokemya Arabian Petrochemical Co., Jubail, Eastern Province, Saudi Arabia

PVP2026-182673: CRACK-LIKE FLAWS: UNDERSTANDING FAILURE AND QUANTIFYING RISK
Samuel Stephens, Quest Integrity, Varsity Lakes, Queensland, Australia

PVP2026-179025: AN EFFICIENT PREDICTION METHOD FOR CRITICAL BUCKLING MOMENT LOAD OF CORRODED PIPELINES
Liwei Chen, Yi Shuai, Jixiang Zhou, China University of Petroleum, Beijing, China; Luoyi Hua, R&D Center of Shanghai Chemical Industry Park Common Corridor Co., Ltd, China, Shanghai, China; Cong Tang, Jiangsu Asia-Pacific Light Alloy Technology Co., Ltd., Jiangsu, China; Laibing Zhang, China University of Petroleum (Beijing), Beijing, China

PVP2026-177185: AN EVALUATION OF THE MINIMUM DISTANCE REQUIREMENTS FROM RADIAL NOZZLES IN CYLINDRICAL SHELLS
Daniel Blanks, Quest Integrity, Gold Coast, Queensland, Australia; Kye Winn, Independent Consultant, Varsity Lakes, Australia

PVP2026-177092: RESONANCE IN TANGENTIAL-ENTRY CYCLONE VESSELS: A CASE STUDY
B. Todd Brandes, Timothy Drennen, Chemours, Wilmington, DE, USA

SESSION 1.4J (MF-24-02)

Monday, July 20, 4:15 pm – 6:00 pm, Avila B
MATERIALS AND FABRICATION FOR REFINING - 2
Developed by: Deepak Mankar, Fluor, Houston, TX, USA; Richard Colwell, Bechtel, Richmond, TX, USA; Jorge Penso, Shell, Houston, TX, USA; Mitul Dalal, Shell, Houston, TX, USA
Chair: Deepak Mankar, Fluor, Houston, TX, USA
Co-Chair: Richard Colwell, Bechtel, Richmond, TX, USA

PVP2026-175390: DIRECTATTACH™ ON DETACLAD™ EXPLOSION WELDED PLATES: WELDING INTERNALS DIRECTLY ON THE CLADDER OF PRESSURE VESSELS
Olivier Sarrat, Tim Delahanty, NobelClad, Broomfield, CO, USA

PVP2026-183193: WELDED ATTACHMENTS ON CLADDING
Kuntak Daru, Air Products and Chemicals, Inc., Houston, TX, USA; Micah Kiffer, Eddie Saldana, Air Products and Chemicals, Inc., Allentown, PA, USA; Tim Delahanty, NobelClad, Broomfield, CO, USA; Mukesh Ahlavadi, NobelClad, Mt Braddock, PA, USA

PVP2026-176693: EVALUATION OF WELDABILITY AND CORROSION RESISTANCE OF BRANCH JOINT ON HEAVY WALL CRA CLAD PROCESS PIPING SUBJECTED TO POSTWELD HEAT TREATMENT
Toshiki Sei, Atsushi Takahashi, JGC Corporation, Yokohama, Japan

PVP2026-180016: MECHANICAL INTEGRITY OF HIGH TEMPERATURE SMR COMPONENTS: LIMITATIONS OF OMEGA TESTING FOR LIFE PREDICTION AND ALTERNATIVE LIFE MANAGEMENT STRATEGIES
Alex Bridges, Electric Power Research Institute, Charlotte, NC, USA; Michael Gagliano, Eeva Griscom, John Siefert, EPRI, Charlotte, NC, USA; Jorge Penso, Shell, Houston, TX, USA

SESSION 1.4K (MF-01-01)

Monday, July 20, 4:15 pm – 6:00 pm, Avila A
APPLICATION OF FRACTURE MECHANICS IN FAILURE ASSESSMENT - 1
Developed by: Preeti Doddihal, Kinectrics, Inc., Toronto, ON, Canada; Douglas Scarth, Kinectrics, Inc., Toronto, ON, Canada; Abdel Hamid Ismail Mourad, United Arab Emirates University, Al-Ain, United Arab Emirates; Gustavo Donato, FEI, Saõ Bernado de Campo, Brazil; Abilio de Jesus, University of Porto, Porto, Portugal; Jessica Lam, Ontario Power Generation, Toronto, ON, Canada; Harry Coules, Amentum, Bristol, United Kingdom; Kiminobu Hojo, Mitsubishi Heavy Industries, Ltd., Kobe, Japan; Sureshkumar Kalyanam, Batelle, Columbus, OH, USA
Chair: Kiminobu Hojo, Mitsubishi Heavy Industries, Ltd., Kobe, Japan
Co-Chair: Preeti Doddihal, Kinectrics, Inc., Toronto, ON, Canada

PVP2026-177903: REFERENCE STRESS BASED J SOLUTION FOR PIPE WITH CIRCUMFERENTIAL SURFACE FLAW AND ITS APPLICATION TO PIPE FRACTURE TEST UNDER CYCLIC LOADING (REPORT-2)
Kiminobu Hojo, Mitsubishi Heavy Industries, Ltd., Kobe, Japan; Satoshi Kumagai, Mitsubishi Heavy Industries, Ltd., Takasago, Japan

PVP2026-175824: FRACTURE TOUGHNESS TESTING FOR SUB-SIZED COMPACT TENSION SPECIMEN CONSIDERING SPECIMEN ROTATION
Kuk-Cheol Kim, Jeon-Young Song, Jae-Suk Jeong, Geun-Su Jung, Young-Wha Ma, Doosan Enerbility, Changwon, Republic of Korea

PVP2026-176098: INFLUENCE OF RASTER ORIENTATIONS AND FIBER REINFORCEMENTS ON THE TENSILE BEHAVIOR AND FRACTURE TOUGHNESS OF 3D-PRINTED PEEK
Sergio Arrieta, Sergio Cicero González, Daniel Munoz-Tymofyeyeva, University of Cantabria, Santander, Spain

PVP2026-176002: ON THE USE OF FAILURE ASSESSMENT DIAGRAMS TO ESTIMATE CRITICAL LOADS IN 3D-PRINTED PEEK AND PEEK COMPOSITES CONTAINING U-NOTCHES
Sergio Cicero González, Sergio Arrieta, Daniel Munoz-Tymofyeyeva, University of Cantabria, Santander, Spain

SESSION 1.4L (SE-08-01)

Monday, July 20, 4:15 pm – 6:00 pm, El Capitan A

THE MICHAEL E. NITZEL MEMORIAL SYMPOSIUM ON SEISMIC ENGINEERING: ADVANCED SEISMIC EVALUATION AND CODES - 1

Developed by: Akira Maekawa, Osaka Sangyo University, Osaka, Japan; Izumi Nakamura, Tokyo City University, Setagaya, Japan; Akihito Otani, IHI Corporation, Yokohama, Japan; Kiminobu Hojo, Mitsubishi Heavy Industries, Ltd., Kobe, Japan
Chair: Akira Maekawa, Osaka Sangyo University, Osaka, Japan
Co-Chair: Izumi Nakamura, Tokyo City University, Setagaya, Japan

PVP2026-176422: IMPACT VIBRATION CHARACTERISTICS OF PIPING-SUPPORT SYSTEMS WITH GAP SUBJECTED TO LARGE SEISMIC MOTIONS
Akira Maekawa, Osaka Sangyo University, Osaka, Japan; Michiaki Suzuki, Machine Craft Co., Ltd., Hiratsuka, Japan

PVP2026-175908: APPLICATION OF VARIOUS STRAIN BASED FATIGUE EVALUATION RULES: PART II - QUASI-STATIC CYCLIC LOADING ELBOW TEST
Hyun-Jin Lee, Hyun-Seok Song, Yun-Jae Kim, Korea University, Seoul, Republic of Korea; Jin-Weon Kim, Chosun University, Gwangju, Republic of Korea; Do Jun Shim, EPRI, Palo Alto, CA, USA

PVP2026-176562: IMPACT OF PIPING DIMENSIONAL TOLERANCES ON THE ELASTIC-PLASTIC SEISMIC RESPONSE ANALYSIS OF PIPING SYSTEMS
Akira Maekawa, Osaka Sangyo University, Osaka, Japan; Michiaki Suzuki, Machine Craft Co., Ltd., Hiratsuka, Japan

PVP2026-179830: APPLICATION OF VARIOUS STRAIN BASED FATIGUE EVALUATION RULES: PART I-DYNAMIC CYCLIC LOADING ELBOW TEST
Hyun-Jin Lee, Hyun-Seok Song, Yun-Jae Kim, Korea University, Seoul, Republic of Korea; Jin-Weon Kim, Chosun University, Dong-gu, Republic of Korea; Do Jun Shim, EPRI, Palo Alto, CA, USA; Izumi Nakamura, Tokyo City University, Setagaya, Japan

SESSION 1.4M (HT-05-05)

Monday, July 20, 4:15 pm – 6:00 pm, El Capitan B

PANEL SESSION: MATERIAL PROPERTIES AND ASME ACCEPTANCE OF POWDERED METAL PRODUCTS

Developed by: Giuseppe Macoretta, University of Pisa, Pisa, Italy; Daniel Peters, Atlas Consulting LLC, Leonardtown, MD, USA
Chair: Daniel Peters, Atlas Consulting LLC, Leonardtown, MD, USA
Co-Chair: Rahul Kapadia, ASML, Eindhoven, Netherlands
Panelists: Annemarie Appleton, Appleton Quality Concepts, LLC; *Discussion of Approach for HIP Material Acceptance in ASME Section II*
Teresa Melfi, Lincoln Electric; *Additive Manufacturing Standard Status Update about Powdered Metal*
Daniel Mann / FlowServe; *Section III Considerations on Use of Powdered Metal Parts*
Ben Sutton, EPRI; *PM-HIP Qualification in ASME Codes: EPRI Experience and Next Steps*

SESSION 1.4N (DA-15-02)

Monday, July 20, 4:15 pm – 6:00 pm, Malibu

FORUM SESSION: 10TH INTERNATIONAL SYMPOSIUM ON COKE DRUM LIFE CYCLE MANAGEMENT - 2 WHAT'S NEXT FOR THE INDUSTRY?

Developed by: Antonio Seijas, Phillips 66 Company, Houston, TX, USA; Clay Rodery, C&S Technology LLC, League City, TX, USA; Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA; Trevor Seipp, Becht, Okotoks, AB, Canada
Chair: Antonio Seijas, Phillips 66 Company, Houston, TX, USA
Co-Chair: Nathan Barkley, Refined Engineering, Tupelo, MS, USA

SESSION 1.4O (CS-01-02)

Monday, July 20, 4:15 pm – 6:00 pm, Santa Monica

STRUCTURAL INTEGRITY OF PRESSURE COMPONENTS - 2

Developed by: Michael Benson, US Nuclear Regulatory Commission, Rockville, MD, USA; Steven Xu, Kinectrics, Inc., Toronto, ON, Canada
Chair: Ray Pace, Aecon Engineering Services, Inc., Boston, MA, USA
Co-Chair: Steven Xu, Kinectrics, Inc., Toronto, ON, Canada

PVP2026-182843: A CASE STUDY ON UTILIZING FLAW DEPTH PROFILES FROM INSPECTION TO REDUCE CONSERVATISM IN PRESSURE TUBE FLAW EVALUATION
Monique Ip, Bruce Power, Toronto, ON, Canada; Steven Xu, Laurie Klarner, Tanya Hunt, Kinectrics, Inc., Toronto, ON, Canada

PVP2026-183106: A CASE STUDY ON DELAYED HYDRIDE CRACKING INITIATION FROM A PRESSURE TUBE FLAW WITH CREEP INDUCED FLAW-TIP STRESS RELAXATION
Steven Xu, Douglas Scarth, Kinectrics, Inc., Toronto, ON, Canada; Monique Ip, Bruce Power, Toronto, ON, Canada; Dennis Kawa, Kedward Kawa and Associates, Winnipeg, ON, Canada

PVP2026-178448: A COMPARATIVE STUDY ON ESTIMATING FATIGUE LIFE USING THE ASME SEC.VIII DIV.2 CODE METHODOLOGY IN COMPARISION TO OTHER INTERNATIONAL STANDARDS SUCH AS EN 13445, AD 2000 MERKBLATT AND PD 5500.
Akshay Chalvade, LRQA Inspection Services India LLP, Mumbai, India; Shyam Gopalakrishnan, Mohammad Abdul Qadeer, LRQA Inspection Services India LLP, Andheri East, India; Sujay S. Pathre, Lloyd's Register Marine and Offshore India LLP, Navi Mumbai, India; Ameya Mathkar, Thyssenkrupp Uhde India Pvt Ltd, Thane, India

PVP2026-179107: EVALUATION OF TIME-DEPENDENT THERMAL AGING EFFECTS ON THE LOAD-CARRYING CAPACITY OF CAST AUSTENITIC STAINLESS STEEL PIPING BASED ON THE ANL MODEL (Presentation Only)
Hune-Tae Kim, Korea Hydro & Nuclear Power Co., Ltd. (KHNP), Daejeon, Republic of Korea; Hee-Seo Koo, Yun-Jae Kim, Korea University, Seoul, Republic of Korea

SESSION 1.4P (TW-01-06)

Monday, July 20, 4:15 pm – 6:00 pm, Pacific A

TECHNICAL TUTORIAL: STRUCTURAL DYNAMICS FOR EXTREME LOADING EVENTS OF VESSELS AND PIPING - PART 2

Chair: Robert Valdiviez, Applied Mechanics Engineering, LLP, Orange, CA, USA
Co-Chair: Andrew Duncan, Savannah River National Laboratory, Aiken, SC, USA

SESSION 1.4Q (TE-01-04)

Monday, July 20, 4:15 pm – 6:00 pm, Pacific/California Foyers

TECHNOLOGY EXHIBITS - 4

Block 2.1: Tuesday, July 21, 2026 (8:00 am – 9:45 am)

SESSION 2.1A (AE-07-03)

Tuesday, July 21, 8:00 am – 9:45 am, Pacific B

MATERIAL TESTING FOR HYDROGEN SERVICE - 3

Developed by: Chris San Marchi, Sandia National Laboratories, Livermore, CA, USA; Robert Wheeler, DNV, Dublin, OH, USA
Chair: Paolo Bortot, Tenaris, Dalmine, Italy
Co-Chair: Saba Nava, DNV, Philadelphia, PA, USA

PVP2026-178652: DEVELOPMENT OF A TESTING METHOD FOR EVALUATING HYDROGEN EMBRITTLEMENT SUSCEPTIBILITY USING HOLLOW CYLINDRICAL SPECIMENS
Daiki Takagoshi, Yusuke Ishibashi, Yuichiro Nomura, Kenji Sato, Mitsubishi Heavy Industries, Ltd., Takasago, Japan

PVP2026-180008: EXPERIMENTAL INVESTIGATION AND ENGINEERING ASSESSMENT OF MODERN LINEPIPE UNDER HIGH-PRESSURE GASEOUS HYDROGEN ENVIRONMENT
Toshihiko Amano, Misaho Yamamura, Nippon Steel Corporation, Amagasaki, Japan; Yuta Nakamura, Tomohiko Omura, Nippon Steel Corporation, Futtu, Japan

PVP2026-183298: EFFECTS OF HIGH-PRESSURE GASEOUS HYDROGEN ON FULL BRIDGE STRAIN GAUGE DEVICES.
Tim Roth, Samrat Rai, C-FER Technologies, Edmonton, AB, Canada; Yu Chen, Kinectrics, Inc., Mississauga, ON, Canada

PVP2026-177201: EFFECT OF ODORANT CHEMICALS ON THE FRACTURE TOUGHNESS AND FATIGUE CRACK GROWTH BEHAVIOR OF LINE PIPE STEEL IN HIGH PRESSURE HYDROGEN
Feng Gui, Alexander Riggs, DNV, Dublin, OH, USA; Nicolas Blouin, Chevron Phillips Chemicals International N.V., Diegem, Belgium

SESSION 2.1B (CT-03-01)

Tuesday, July 21, 8:00 am – 9:45 am, California A

LEAK TIGHTNESS AND FUGITIVE EMISSIONS – 1 (WITH CT-10 & DA-10)

Co-Sponsored by the Computer Technology & Bolted Joints and Design & Analysis Technical Committees

Developed by: Carlos Daniel Girão Barroso, Teadit, Itatiba, Brazil; Satoshi Nagata, Toyo Engineering Corporation, Narashino, Japan; Jeffrey Wilson, VSP Technologies, Prince George, VA, USA
Chair: Carlos Daniel Girão Barroso, Teadit, Itatiba, Brazil
Co-Chair: Jeffrey Wilson, VSP Technologies, Prince George, VA, USA

PVP2026-179281: SPIRAL WOUND GASKET LEAKAGE PERFORMANCE VARIATION WITH FILLER VARIATION AND STANDARD ASME B16.20 CONSTRUCTION
Anita Bausman, VSP Technologies, Kingsport, TN, USA; Jeffery Wilson, VSP Technologies, Prince George, VA, USA

PVP2026-179938: DEVELOPING A PRESSURE-BASED APPROACH TO APPENDIX O GASKET PARAMETERS FOR METALLIC GASKETS
Henrique Winnischofer, Roberto Araújo, Teadit, Campinas, Brazil; Igor Meira, Carlos Daniel Girão Barroso, Teadit, Itatiba, Brazil

PVP2026-178148: MITIGATION OF FLANGE LEAKAGE THROUGH SPLIT RING TECHNOLOGY
Philip Diwakar, Bechtel, Sugar Land, TX, USA; Matt Eljaouhari, Bechtel, Houston, TX, USA

PVP2026-183439: EFFECTS OF MECHANICAL PROPERTIES OF RUBBER MATERIALS ON O-RING SELF-SEALING MECHANISM (Presentation Only)
Yoichiro Manabe, Advanced Hydrogen Materials Lab., Kyushu University, Nishi-ku, Japan; Shin Nishimura, Hydrogenius/Kyushu University, Fukuoka, Japan

SESSION 2.1C (MF-37-02)

Tuesday, July 21, 8:00 am – 9:45 am, California B

2ND AI SYMPOSIUM: APPLICATIONS OF ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, AND DATA ANALYSIS IN MATERIALS AND FABRICATION - 2 (WITH MF-10)

Developed by: Maria Ortiz De Zúñiga López-Chicheri, Fusion for Energy, Barcelona, Spain; Paul Korinko, Savannah River National Laboratory, Aiken, SC, USA; Xian-Kui Zhu, Savannah River National Laboratory, Aiken, SC, USA; M. Kevin Mandeville Jr., DNV, Katy, TX, USA; Dongmei (Donna) Sun, Liburdi Group of Companies, Guelph, ON, Canada; Qin Ma, Walla Walla University, College Place, WA, USA
Chair: María Ortiz de Zúñiga López-Chicheri, Fusion for Energy, Barcelona, Spain
Co-Chair: Nathan Glunt, EPRI, Charlotte, NC, USA

PVP2026-175638: AI-DRIVEN DOCUMENTATION ANALYSIS FOR SAFETY ASSESSMENT OF DANGEROUS GOODS PACKAGES
Frank Wille, Tobias Gleim, Kutlualp Tazefidan, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany

PVP2026-179784: DEEP-LEARNING DRIVEN TOMOGRAPHY PROGRESS PROCESSING
Maria Ortiz De Zúñiga López-Chicheri, Philip May-Clement, Pierluigi Valente, Fusion for Energy, Barcelona, Spain; Liese Boogaerts, ATG, Barcelona, Spain

PVP2026-182967: ENHANCING PIPELINE INTEGRITY MANAGEMENT WITH ARTIFICIAL INTELLIGENCE AND INTEGRATED TECHNOLOGIES
Kang Wang, Parag Karanjkar, Adnan Chughtai, Fei Song, SLB, Houston, TX, USA

SESSION 2.1D (OAC-04-01)

Tuesday, July 21, 8:00 am – 9:45 am, Sunset

STORAGE AND TRANSPORTATION OF RADIOACTIVE AND OTHER HAZARDOUS MATERIALS - 1

Developed by: Mike Weber, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany; Zenghu Han, Argonne National Laboratory, Lemont, IL, USA; Nicholas Klymyshyn, Pacific Northwest National Laboratory, Richland, WA, USA; Oscar Martinez, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Matt Feldman, Sandia National Laboratories, Knoxville, TN, USA; David Tamburello, Savannah River National Laboratory, Aiken, SC, USA; Mustafa Hadj-Nacer, University of Nevada-Reno, Reno, NV, USA; Steffan Komann, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany
Chair: Nicholas Klymyshyn, Pacific Northwest National Laboratory, Richland, WA, USA
Co-Chair: Uwe Zencker, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany

PVP2026-179928: TESTING METALLIC SEALS USED IN DUAL PURPOSE CASKS (Presentation Only)
Matthias Jaunich, Milan Goral, Ilja Sagradov, Dietmar Wolff, Holger Völzke, Federal Institute for Materials Research and Testing, Berlin, Germany

PVP2026-179765: REPRODUCING AND DISCUSSION OF MECHANISMS INSIDE OF METALLIC SEALS DURING AGING IN MOCK-UP FLANGE SYSTEMS BY FINITE ELEMENT ANALYSIS (FEA) (Presentation Only)
Mike Weber, Matthias Jaunich, Milan Goral, Holger Völzke, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany

PVP2026-180395: AGING MANAGEMENT OF SPENT FUEL DRY CASK STORAGE SYSTEMS AND RADIOACTIVE MATERIAL TRANSPORTATION PACKAGING (Presentation Only)
Zenghu Han, Yung Liu, Argonne National Laboratory, Lemont, IL, USA; Christoper Cable, U.S. Department of Energy, Germantown, MD, USA

PVP2026-180088: ACCIDENT-INDUCED BATTERY AND HYDROGEN FIRES: CHALLENGES FOR THE SAFE TRANSPORT OF PACKAGES WITH HAZARDOUS GOODS
Hannes Soderer, Tobias Gleim, Frank Wille, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany

SESSION 2.1E (SE-05-01)

Tuesday, July 21, 8:00 am – 9:45 am, Salinas

THE MICHAEL E. NITZEL MEMORIAL SYMPOSIUM ON SEISMIC ENGINEERING: STRUCTURAL DYNAMICS - 1 (WITH SE-08)

Developed by: Kazuo Hirota, Mitsubishi Heavy Industries, Ltd., Takasago, Japan; Kiyoshi Aida, Primetals Technologies, Kure-Shi, Japan; Katsuhisa Fujita, Osaka City University, Sumiyoshi-ku, Japan
Chair: Kazuo Hirota, Mitsubishi Heavy Industries, Ltd., Takasago, Japan
Co-Chair: Akira Maekawa, Osaka Sangyo University, Osaka, Japan

PVP2026-175877: STUDY ON NONLINEAR SLOSHING AND SCALE EFFECTS IN CYLINDRICAL TANKS
Shunichi Ikesue, Mitsubishi Heavy Industries, Ltd., Nagasaki, Japan; Akihisa Iwasaki, Mitsubishi Heavy Industries, Ltd., Takasago, Japan; Hiromi Sago, Mitsubishi Heavy Industries, Ltd., Kobe, Japan; Shinobu Yokoi, Mitsubishi FBR Systems, Inc., Kobe, Japan; Tomohiko Yamamoto, Japan Atomic Energy Agency (JAEA), Oarai, Japan

PVP2026-179621: DESIGN METHOD TO PREVENT PLASTIC COLLAPSE FOR NONLINEAR-DUCTILE SYSTEMS DUE TO DYNAMIC LOADINGS
Ichiro Tamura, Ryuya Shimazu, Central Research Institute of Electric Power Industry (CRIEPI), Abiko, Japan; Yohei Ono, Central Research Institute of Electric Power Industry (CRIEPI), Abiko-Shi, Japan; Tadashi Iijima, Hitachi GE Vernova Nuclear Energy, Ltd., Hitachi, Japan

PVP2026-175705: STUDY ON SEISMIC EVALUATION FOR ANCHOR BOLTS IN CIRCULAR ARRANGEMENT USING ELASTIC-PLASTIC ANALYSIS 2: ELASTIC-PLASTIC BEHAVIOR OF ANCHOR BOLTS UNDER DYNAMIC RESPONSE
Wataru Otaka, Mitsubishi Heavy Industries, Ltd., Kobe, Japan; Masanori Amino, MHI NS Engineering Co., Ltd., Kobe, Japan; Satoshi Iida, The Chugoku Electric Power Co., Hiroshima-Shi, Japan

PVP2026-180015: CLASSIFICATION OF SEISMIC LOADS ACTING ON PIPING SYSTEMS USING INELASTIC RESPONSE SPECTRUM ANALYSIS
Ryuya Shimazu, Central Research Institute of Electric Power Industry (CRIEPI), Abiko, Japan; Ichiro Tamura, Yohei Ono, Central Research Institute of Electric Power Industry (CRIEPI), Abiko-Shi, Japan

SESSION 2.1F (CS-24-03)

Tuesday, July 21, 8:00 am – 9:45 am, Monterey

PROBABILISTIC AND RISK-INFORMED METHODS FOR STRUCTURAL INTEGRITY ASSESSMENT – 3 (WITH CT-17 & CS-25)

Co-Sponsored by the Codes & Standards and Computer Technology & Bolted Joints Technical Committees

Developed by: Steven Xu, Kinectrics, Inc., Toronto, ON, Canada; David Rudland, Rudland Consulting, Frederick, MD, USA; Yinsheng Li, China National Nuclear Corporation, Naka, Japan; Cheng Liu, Kinectrics, Inc., Toronto, ON, Canada
Chair: Jinya Katsuyama, Japan Atomic Energy Agency (JAEA), Naka-Gun, Japan
Co-Chair: Steven Xu, Kinectrics, Inc., Toronto, ON, Canada

PVP2026-182740: LOW-TEMPERATURE INTEGRITY OF CARBON STEEL PRESSURE PIPING PART 2: THE EFFECTS OF WELDING FLAWS, TEMPERATURE AND APPLIED STRESSES
Isabel Hadley, Yin Jin Janin, Charles Schneider, TWI Ltd., Cambridge, United Kingdom; Siak Manteghi, Geoff Evans, BP, Middlesex, United Kingdom

PVP2026-183135: USE OF MONTE-CARLO AND STATISTICAL METHODOLOGIES TO INFER DISTRIBUTIONS OF PROBABILISTIC INPUT VARIABLES THAT CANNOT BE MEASURED IN-SITU
Eric Nadeau, Mark Paulseth, Stefani Rice, AtkinsRéalis, Mississauga, ON, Canada

PVP2026-183284: STRUCTURAL INTEGRITY SAFETY CASE CONSTRUCT CONSIDERING UNINTENDED CONSEQUENCES OF FAILURE OF A PUMP MOTOR SHAFT
Owen Gibson, Frazer-Nash Consultancy, Bristol, United Kingdom; Wim Vorster, Simon Erhardt, EDF, Gloucester, United Kingdom

PVP2026-178222: A DESCRIPTION OF LOW, INTERMEDIATE, AND HIGH RIGOR NDE INSPECTION SYSTEMS FOR NUCLEAR POWER PLANT COMPONENTS AND HOW THE INSPECTION SYSTEMS RIGOR AFFECTS THE RELIABILITY AND INTEGRITY MANAGEMENT OF THOSE COMPONENTS
Jeffrey Fong, National Institute of Standards & Technology, San Bruno, CA, USA; Steven R. Doctor, Independent Consultant, Richland, WA, USA; N. Alan Heckert, National Institute of Standards & Technology, Gaithersburg, MD, USA

SESSION 2.1G (MF-13-01)

Tuesday, July 21, 8:00 am – 9:45 am, Carmel

COMPOSITE AND NON-METALLIC SYSTEMS FOR PRESSURE VESSELS AND PIPING – 1 (WITH DA-17)

Co-Sponsored by the Materials & Fabrication and Design & Analysis Technical Committees

Developed by: Sureshkumar Kalyanam, Batelle, Columbus, OH, USA; Qin Ma, Walla Walla University, College Place, WA, USA; Jianfeng Shi, Zhejiang University, Hangzhou, China; Pierre Mertiny, University of Alberta, Edmonton, AB, Canada; Mohammed Uddin, Structural Integrity Associates Inc., San Jose, CA, USA; Ashkan Eslaminejad, Structural Integrity Associates Inc., Englewood, CO, USA
Chair: Qin Ma, Walla Walla University, College Place, WA, USA
Co-Chair: Richard Colwell, Bechtel, Richmond, TX, USA

PVP2026-179571: APPLICATION OF A HIGH-TEMPERATURE RESISTANT ARAMID-REINFORCED EPDM COMPOSITE PIPELINE IN THE TRENCHLESS REPAIR TECHNOLOGY OF THERMAL PIPELINES
Haijie Zhi, Sohail Yasin, Jianfeng Shi, Zhejiang University, Hangzhou, China; Yao Li, Ce Zheng, Beijing Heating Municipal, Engineering Construction Co., Ltd., Beijing, China; Guangzhong Li, Jiangsu Shuangteng Pipe Industry Co., Ltd., Zhangjiagang, China; Jing Zhao, Bestyield Technology (Huizhou) Co., Ltd, Huizhou, China; Jun Xiang, Jinhua Yalun Chemical Fiber Co., Ltd., Jinhua, China

PVP2026-178354: DEGRADATION ASSESSMENT OF EPDM RUBBER AFTER HIGH-PRESSURE HYDROGEN AND HIGH-TEMPERATURE EXPOSURE (Presentation Only)
Nak-Kwan Chung, Dong-Gyu Lee, Sang Koo Jeon, Korea Research Institute of Standards and Science (KRISS), Daejeon, Republic of Korea; Jeong Jae Kim, Hanbat National University, Daejeon, Republic of Korea

PVP2026-179121: IMPACT RESISTANCE ANALYSIS OF CRYO-COMPRESSED HYDROGEN VESSELS FOR UNMANNED AERIAL VEHICLE APPLICATIONS
Yuhang He, Jianfeng Shi, Jinyang Zheng, Zhejiang University, Hangzhou, China

SESSION 2.1H (MF-20-01)

Tuesday, July 21, 8:00 am – 9:45 am, San Simeon B

MATERIAL QUALITY AND FAILURE ANALYSIS (WITH WELD FAILURES SYMPOSIUM) - 1

Developed by: Kang Xu, Linde Inc., Tonawanda, NY, USA; Michiel Brongers, Kiefner and Associates Inc., Columbus, OH, USA; Jorge Penso, Shell, Houston, TX, USA; Mitul Dalal, Shell, Houston, TX, USA; Qin Ma, Walla Walla University, College Place, WA, USA
Chair: Kang Xu, Linde Inc., Tonawanda, NY, USA
Co-Chair: Michiel Brongers, Kiefner and Associates Inc., Columbus, OH, USA

PVP2026-179955: FAILURE ANALYSIS OF A SUPERHEATER TUBE IN A WASTE GAS FIRED BOILER
Stephen French, Jacqueline Sturgeon, Intertek, Trexlertown, PA, USA

PVP2026-179558: EFFECT OF AUSTENITIZING TEMPERATURE ON IMPACT TOUGHNESS OF ASME SA - 350 LF2CL1 QUENCHED AND TEMPERED FORGINGS

Ricardo Hernandez Soto, Tecnicas Reunidas, Madrid, Madrid, Spain; Joseba Aramendi Elkorobarrutia, ULMA Advanced Forged Solutions, Oñati, Spain; José María Gómez De Salazar, Complutense University of Madrid, Madrid, Spain

PVP2026-180479: LOW-TEMPERATURE BRITTLE FRACTURE ANALYSIS ON X80 PIPELINE STEEL
Lele Gui, CSEI, Beijing, China

PVP2026-183453: RESEARCH ON MELT POOL BEHAVIOR AND WELDING PROCESS OPTIMIZATION FOR AUTOMATIC WELDING AT 5FG POSITION OF TUBE-TO-TUBE SHEET JOINTS IN HEAT EXCHANGERS UNDER HARSH SERVICE CONDITIONS
Gaojian Wang, Liang Tang, Xianchun Wu, Jianjun Zeng, Tao Liu, Sichuan Kexin Mechanical & Electrical Equipment Co., Ltd., Shifang, China

SESSION 2.1I (CS-23-01)

Tuesday, July 21, 8:00 am – 9:45 am, San Simeon A
IMPROVEMENT OF FLAW CHARACTERIZATION RULES FOR FFS – 1 (WITH CS-06 & OAC-06)

Co-Sponsored by the Codes & Standards and Operations Applications, & Components Technical Committees

Developed by: Pierre Dulieu, Tractebel Engie, Brussels, Belgium; Valéry Lacroix, Tractebel Engie, Brussels, Belgium; Kunio Hasegawa, Consultant, Tokai-Mura, Japan; Kaveh Samadian, Tractebel Engie, Brussels, Belgium; Martin Negyesi, Technical University of Ostrava, Ostrava, Czech Republic
Chair: Pierre Dulieu, Tractebel Engie, Brussels, Belgium
Co-Chair: Martin Negyesi, Technical University of Ostrava, Ostrava, Czech Republic

PVP2026-179973: COMPLETING THE DEVELOPMENT OF AN ENHANCED FLAW-TO-SURFACE PROXIMITY RULE: INFLUENCE OF CURVATURE AND LOADING CONDITIONS
Valéry Lacroix, Pierre Dulieu, Tractebel Engie, Brussels, Belgium; Kunio Hasegawa, Japan Atomic Energy Agency (JAEA), Tokai, Japan

PVP2026-179859: EFFECT OF COMPONENT THICKNESS ON PLANAR FLAW INTERACTION
Pierre Dulieu, Valéry Lacroix, Tractebel Engie, Brussels, Belgium; Kunio Hasegawa, Japan Atomic Energy Agency (JAEA), Tokai, Japan

PVP2026-179368: AN ABAQUS IMPLEMENTATION OF PROJECT OMEGA MODEL WITH AN EXPLICIT INTEGRATION SCHEME USING A CREEP USER SUBROUTINE
Jingtian Wu, Bernd Crouse, Dassault Systèmes, Pleasanton, CA, USA; Andrew Fager, Dassault Systèmes, Eagan, MN, USA; Lin Xia, Ross McLendon, Kingshuk Bose, Juan Hurtado, Dassault Systèmes, Johnston, RI, USA

PVP2026-177683: EVALUATION OF REMAINING STRENGTH FACTOR FOR MULTILAYERED CYLINDRICAL SHELLS WITH LOCAL METAL LOSS USING FINITE ELEMENT ANALYSIS
Satoshi Nanri, Isaku Chimura, Toyo Engineering Corporation, Chiba, Japan; Satoshi Nagata, Toyo Engineering Corporation, Narashino, Japan

SESSION 2.1J (DA-01-01)

Tuesday, July 21, 8:00 am – 9:45 am, Avila B
DESIGN AND ANALYSIS OF PRESSURE VESSELS, HEAT EXCHANGERS, AND COMPONENTS - 1

Developed by: Nathan Barkley, Refined Engineering, Tupelo, MS, USA; Clay Rodery, C&S Technology LLC, League City, TX, USA; Roy Darby, Chevron, Houston, TX, USA; Hao Jiang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; M. Kevin Mandeville Jr., DNV, Katy, TX, USA; Qi Li, T.D. Williamson, Houston, TX, USA
Chair: Nathan Barkley, Refined Engineering, Tupelo, MS, USA
Co-Chair: M. Kevin Mandeville Jr., DNV, Katy, TX, USA

PVP2026-179664: STRESS ATTENUATION LENGTH AT GEOMETRIC DISCONTINUITY FOR LEG SUPPORTED SPHERICAL STORAGE PRESSURE VESSEL
Mandeep Singh, Nulypro LLC, Woodridge, IL, USA; Harsh Bohra, Baker Consulting Group, Inc., Lawrenceville, GA, USA

PVP2026-182878: THE PROPER DETERMINATION OF EQUIPMENT NOZZLE SPRING RATES FOR USE IN A PIPE STRESS ANALYSIS
Kenneth Kirkpatrick, Kenneth Jr. Kirkpatrick, Bryan Mosher, Fluor, Houston, TX, USA; Mohan Rathinasabapathy, Fluor, Sugar Land, TX, USA

PVP2026-179047: FINITE ELEMENT ANALYSIS APPROACH FOR LIFT LUG DESIGN AND APPLICATION
Jason Dorgan, Abd Elmajeed Elkhider, Agron Gjinolli, Durr Universal, Inc., Stoughton, WI, USA

PVP2026-183375: SPLICED SKIRT DESIGN METHODOLOGY FOR TALL PRESSURE VESSEL TOWERS: CASE STUDY AND FEA CORRELATION
Alicia Avery, Reka Flikkema, Worley, Calgary, AB, Canada; Trevor Seipp, Becht, Okotoks, AB, Canada

SESSION 2.1K (MF-12-01)

Tuesday, July 21, 8:00 am – 9:45 am, Avila A
LEAK BEFORE BREAK - 1

Developed by: Mohammed Uddin, Structural Integrity Associates Inc., San Jose, CA, USA; David Rudland, Rudland Consulting, Frederick, MD, USA; Peter James, Amentum, Warrington, Cheshire, United Kingdom; Deepak Somasundaram, AtkinsRéalis, Mississauga, ON, Canada
Chair: Harry Coules, Amentum, Bristol, United Kingdom
Co-Chair: Mohammed Uddin, Structural Integrity Associates Inc., San Jose, CA, USA

PVP2026-176146: COMPARISON OF LEAK-BEFORE-BREAK ANALYSIS BETWEEN A PIPE-TO-ELBOW INTERFACE AND A STRAIGHT PIPE
Hyung-Bin Jin, Sua Lee, Nam-Su Huh, Seoul National University of Science and Technology, Seoul, Republic of Korea

PVP2026-179709: EFFECT OF LEAK DETECTION CAPABILITY ON LEAK-BEFORE-BREAK EVALUATION OF SMALL DIAMETER PIPING
Tae-Hyeon Seok, Hyung-Bin Jin, Nam-Su Huh, Seoul National University of Science and Technology, Seoul, Republic of Korea

PVP2026-179814: QUANTIFICATION OF LOAD REDUCTION IN THROUGH-WALL CRACKED PIPE DUE TO RESTRAINT EFFECT FOR IMPROVED LBB ANALYSIS
Jae-Yoon Kim, Yun-Jae Kim, Korea University, Seoul, Republic of Korea; Nam-Su Huh, Seoul National University of Science and Technology, Nowon-Gu, Republic of Korea; Do Jun Shim, EPRI, Palo Alto, CA, USA

PVP2026-182134: APPLICATION OF LEAK-BEFORE-BREAK TO A PIPING SYSTEM OF A FAST SODIUM REACTOR
Mohammed Uddin, Natheniel Cofie, Dilip Dedhia, Cedric Sallaberry, Younes Marih, Structural Integrity Associates Inc., San Jose, CA, USA; Heqin Xu, Mathew Mallet, Tamas Liszkai, TerraPower LLC, Bellevue, WA, USA

SESSION 2.1L (CS-07-01)

Tuesday, July 21, 8:00 am – 9:45 am, El Capitan A
RECENT DEVELOPMENTS IN ASME CODES AND STANDARDS - 1

Developed by: Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA; Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Mark Messner, Argonne National Laboratory, Plainfield, IL, USA
Chair: Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA
Co-Chair: Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA

PVP2026-182473: COMPARISON OF NUSCALE'S SMALL MODULAR REACTOR DESIGN PROCESS AND THE ASME PLANT SYSTEMS DESIGN STANDARD (PSD-1)
Kent Welter, NuScale Power, Corvallis, OR, USA; Ralph Hill, Hill Engineering Solutions, Meridian, ID, USA

PVP2026-183382: ON MITIGATION OF ASME CODE PENALTY FACTORS
Somnath Chattopadhyay, Cleveland State University, Westlake, OH, USA

PVP2026-183156: IMPLEMENTATION OF ASME SECTION III REQUIREMENTS IN THE N AND G STAMP CERTIFICATION PROCESS
Nicholas Caito, Daniel McKeon, Zachry Nuclear Engineering, Stonington, CT, USA

PVP2026-182451: AN UPDATE OF CODES AND STANDARDS FOR ELECTROCHEMICAL CELL STACKS (Presentation Only)
Karen Quackenbush, FCHEA, Washington, DC, USA; Kang Xu, Linde Inc., Tonawanda, NY, USA

SESSION 2.1M (HT-05-01)

Tuesday, July 21, 8:00 am – 9:45 am, El Capitan B
PANEL SESSION: HOT ISOSTATIC PROCESSING (HIP) APPLICATIONS AND DEVELOPMENT

Developed by: Giuseppe Macoretta, University of Pisa, Pisa, Italy; Daniel Peters, Atlas Consulting LLC, Leonardtown, MD, USA
Chair: Victor Samarov, SynerTech PM, Inc., Garden Grove, CA, USA
Co-Chair: Daniel Peters, Atlas Consulting LLC, Leonardtown, MD, USA
Panelists: Ken Davis – Amaero Advanced Materials and Manufacturing, Inc.
Victor Samarov – Synertech PM Inc.; *Large Scale PM HIP Technology for Critical Applications*
Tomas Berglund - MTC Powder Solutions; *Large PM HIP Is Already Here—Now Let's Talk Scale*

SESSION 2.1N (CS-12-01)

Tuesday, July 21, 8:00 am – 9:45 am, Malibu
HIGH TEMPERATURE CODES AND STANDARDS - 1/HIGH TEMPERATURE EQUIPMENT DESIGN STANDARDS (WITH CT-11)
Co-Sponsored by the Codes & Standards and Computer Technology & Bolted Joints Technical Committees

Developed by: Anees Udyawar, Westinghouse, Cranberry Township, PA, USA; Valéry Lacroix, Tractebel Engie, Brussels, Belgium; Sureshkumar Kalyanam, Batelle, Columbus, OH, USA
Chair: Reza Adibi-Asl, Nergx, Toronto, ON, Canada
Co-Chair: Ramesh Rajasekaran, TerraPower LLC, Bellevue, WA, USA

PVP2026-180174: TECHNICAL BASIS FOR SECTION III, DIVISION 5 CODE CASE FOR DIFFUSION WELDED COMPACT HEAT EXCHANGERS
Suzanne McKillop, Robert Keating, MPR Associates, Inc., Alexandria, VA, USA

PVP2026-180050: INTEGRATING API 650 AND ASME SECTION III, DIVISION 5 DESIGN METHODOLOGIES FOR HIGH-TEMPERATURE STORAGE TANKS
Vivek Manjrekar, Bechtel, Richmond, TX, USA; Neville Stokes, Muaz Al Dimashki, Bechtel, Houston, TX, USA

PVP2026-175268: INFLUENCE OF NUMBER OF ROLLERS IN MECHANICALLY ROLLED TUBE-TO-TUBESHEET JOINTS
Mohammad Pourreza, École de Technologie Supérieure, Kirkland, QC, Canada; Zijian Zhao, Abdel-Hakim Bouzid, École de Technologie Supérieure, Montreal, QC, Canada; Khaled Benfriha, Arts et Metiers Institute of Technology, Paris, France

PVP2026-182718: A STUDY ON INFLUENCE OF BUCKLING ON THE ULTIMATE FRACTURE STRENGTH OF THIN-WALLED PIPE
Takashi Wakai, Japan Atomic Energy Agency (JAEA), Higashi-Ibaraki-Gun, Japan; Hiroki Yada, Japan Atomic Energy Agency (JAEA), Oarai, Japan; Osamu Inoue, NESI Inc., Hitachinaka, Japan; Hideo Machida, TEPCO Systems Corporation, Koto-ku, Japan

SESSION 2.1O (MF-04-01)

Tuesday, July 21, 8:00 am – 9:45 am, Santa Monica
EUROPEAN PROGRAMS IN STRUCTURAL INTEGRITY - 1 (WITH MF-23)

Developed by: Peter James, Amentum, Warrington, Cheshire, United Kingdom; Tomas Nicak, Framatome, Erlangen, Bavaria, Germany; Antoine Andrieu, EDF, Lyon, Rhône, France
Chair: Florian Obermeier, Framatome, Erlangen, Bavaria, Germany
Co-Chair: Jessica Lam, Ontario Power Generation, Toronto, ON, Canada

PVP2026-176967: APPLICATION OF THE SMALL PUNCH TEST FOR EVALUATING MECHANICAL PROPERTIES OF PRIMARY PIPING MATERIALS IN THE DELISA-LTO PROJECT (Presentation Only)
Marek Adamech, Jana Petzová, VUJE a.s., Trnava, Slovakia; Radim Kopřiva, ÚJV Řež, a. s., Husinec, Czech Republic; Maksym Zarazovskii, IPP-Centre LLC, Kyiv, Ukraine

PVP2026-177889: EVALUATION OF MICROSTRUCTURAL CHANGES IN VVER PRIMARY PIPING MATERIALS RELATED TO LONG-TERM OPERATION WITHIN THE DELISA-LTO PROJECT (Presentation Only)
Dávid Slnek, Marek Adamech, Jana Petzová, VUJE a.s., Trnava, Slovakia

PVP2026-176005: COSME APPROACH FOR THE STRUCTURAL INTEGRITY ASSESSMENT OF ENUN SPENT FUEL CASKS
Sergio Cicero González, Sergio Arrieta, University of Cantabria, Santander, Spain; Alejandro Palacio, Virginia Madrazo, Enrique Gomez-Poncela, ENSA, Maliaño, Spain

SESSION 2.1Q (TE-01-05)

Tuesday, July 21, 8:00 am – 9:45 am, Pacific/California Foyers
TECHNOLOGY EXHIBITS - 5

Block 2.2: Tuesday, July 21, 2026 (10:15 am – 12:00 pm)

SESSION 2.2A (AE-07-04)

Tuesday, July 21, 10:15 am – 12:00 pm, Pacific B
MATERIAL TESTING FOR HYDROGEN SERVICE - 4

Developed by: Chris San Marchi, Sandia National Laboratories, Livermore, CA, USA; Robert Wheeler, DNV, Dublin, OH, USA
Chair: Kevin Nibur, HyPerformance Materials Testing, LLC, Bend, OR, USA
Co-Chair: Andrew Leboeuf, Colorado School of Mines, Golden, CO, USA

PVP2026-179165: INFLUENCE OF HYDROGEN CONDITIONING ON IMPACT TOUGHNESS OF VINTAGE PIPELINE STEELS (Presentation Only)
Milan Agnani, GTI Energy, Liberty Township, OH, USA; Areeba Essani, Oren Lever, Ernest Lever, GTI Energy, Des Plaines, IL, USA

PVP2026-183322: MPT TESTING OF SERVICE-AGED 2¼CR-1MO-¼V STEEL UNDER STARTUP AND SHUTDOWN CONDITIONS (Presentation Only)
Robert Wheeler, Brandon Rollins, DNV, Dublin, OH, USA; Jorge Penso, Shell, Houston, TX, USA; Devin Preston, Shell, Fort Saskatchewan, AB, Canada

PVP2026-183327: MECHANICAL PERFORMANCE OF ALLOY 825/625 AND DUPLEX STAINLESS STEEL 2205/2209 IN WET SOUR REACTOR EFFLUENT AIR COOLER (REAC) ENVIRONMENTS (Presentation Only)
Robert Wheeler, Brandon Rollins, DNV, Dublin, OH, USA; Jorge Penso, Shell, Houston, TX, USA; Devin Preston, Seun Idowu, Allie Hosack, Shell, Fort Saskatchewan, AB, Canada

PVP2026-183360: INSTABILITY IN ELASTIC-PLASTIC FRACTURE TESTING AND THE IMPLICATION FOR HYDROGEN-ASSISTED FRACTURE (Presentation Only)
Chris San Marchi, Michelle Kent, Quinten Yurek, Joseph Ronevich, Sandia National Laboratories, Livermore, CA, USA; Kevin Nibur, HyPerformance Materials Testing, LLC, Bend, OR, USA

SESSION 2.2C (CT-19-01)

Tuesday, July 21, 10:15 am – 12:00 pm, California B
2ND AI SYMPOSIUM: APPLICATIONS OF AI IN BOLTING TECHNOLOGY (WITH CT-01 & CT-04)

Developed by: Lindsey Elliott, Nexterity Inc., Nutley, NJ, USA; Soroosh Hakimian, École de Technologie Supérieure, Montreal, QC, Canada; Cyril Babál, OMV, Vienna, Austria; Wanhua (Carol) Liang, AtkinsRéalis, Mississauga, ON, Canada; Maria Ortiz De Zúñiga López-Chicheri, Fusion for Energy, Barcelona, Spain
Chair: Carlos Daniel Girão Barroso, Teadit, Itatiba, Brazil
Co-Chair: Lindsey Elliott, Nexterity Inc., Nutley, NJ, USA

PVP2026-179855: DEEP LEARNING FOR PREDICTING BOLT BEHAVIOR IN ASSEMBLY OF BOLTED JOINTS
Leonardo De La Roca, Teadit, Rio de Janeiro, Brazil; Carlos Daniel Girão Barroso, Igor Meira, Teadit, Itatiba, Brazil

PVP2026-180054: QUANTIFYING ELECTRONIC 4-AT-A-TIME BOLTING PERFORMANCE
Lindsey Elliott, Nexterity Inc., Nutley, NJ, USA

PVP2026-176800: A PREDICTION METHOD OF REQUIRED CONTACT GASKET STRESS FOR LOW-LEAK RATE IN PLATEN TESTS USINGMACHINE LEARNING
Satoshi Nakazato, Valqua, Ltd., Machida, Japan; Toshiyuki Sawa, Hiroshima University, Koto-City, Japan

PVP2026-179796: INTELLIGENT OPTIMIZATION OF BOLT TIGHTENING SEQUENCES IN BOLTED FLANGE JOINTS USING A GENETIC ALGORITHM
Linbo Zhu, Junqi Zhou, Rixin Qiu, Jinhui Wang, Yongliang Wu, Jun Hong, Xi'an Jiaotong University, Xi'an, China; Abdel-Hakim Bouzid, École de Technologie Supérieure, Montreal, QC, Canada

SESSION 2.2D (OAC-04-02)

Tuesday, July 21, 10:15 am – 12:00 pm, Sunset
STORAGE AND TRANSPORTATION OF RADIOACTIVE AND OTHER HAZARDOUS MATERIALS - 2

Developed by: Mike Weber, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany; Zenghu Han, Argonne National Laboratory, Lemont, IL, USA; Nicholas Klymyshyn, Pacific Northwest National Laboratory, Richland, WA, USA; Oscar Martinez, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Matt Feldman, Sandia National Laboratories, Knoxville, TN, USA; David Tamburello, Savannah River National Laboratory, Aiken, SC, USA; Mustafa Hadj-Nacer, University of Nevada-Reno, Reno, NV, USA; Steffan Komann, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany
Chair: Mike Weber, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany
Co-Chair: Zenghu Han, Argonne National Laboratory, Lemont, IL, USA

PVP2026-179886: STRESS WAVE PROPAGATION THROUGH MESH TRANSITIONS IN FINITE ELEMENT MODELS
Uwe Zencker, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany

PVP2026-182804: FINITE ELEMENT STUDY OF ENERGY TRANSFER AND DISSIPATION IN A PACKAGE DROP SCENARIO
Nicholas Klymyshyn, Kevin Kadooka, James Fitzpatrick, Peter Sakalaukus, Pacific Northwest National Laboratory, Richland, WA, USA

PVP2026-175492: NUMERICAL SIMULATIONS OF HEAT FLUXES FOR A FIRE REFERENCE TEST
Tobias Gleim, Martin Feldkamp, Thomas Quercetti, Frank Wille, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany

PVP2026-183032: COMPARATIVE EXPERIMENTAL ANALYSIS OF HYDROGEN AND FOSSIL FUEL FLAMES IN THE THERMAL TESTING OF TRANSPORT PACKAGES FOR RADIOACTIVE SUBSTANCES
Maximilian Naster, Tobias Gleim, Frank Wille, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany

SESSION 2.2E (SE-06-01)

Tuesday, July 21, 10:15 am – 12:00 pm, Salinas
THE MICHAEL E. NITZEL MEMORIAL SYMPOSIUM ON SEISMIC ENGINEERING: SEISMIC AND RATCHETING DEFORMATION OF METALLIC MATERIALS AND PIPING - 1

Developed by: Izumi Nakamura, Tokyo City University, Setagaya, Japan; Kisaburo Azuma, Nuclear Regulation Authority, Minato-ku, Japan
Chair: Izumi Nakamura, Tokyo City University, Setagaya, Japan
Co-Chair: Kisaburo Azuma, Nuclear Regulation Authority, Minato-ku, Japan

PVP2026-179535: INVESTIGATION OF FATIGUE FAILURE IN AUSTENITIC STAINLESS STEEL PIPE FITTINGS UNDER UNIAXIAL DYNAMIC LOADING
Kisaburo Azuma, Nuclear Regulation Authority, Minato-ku, Japan; Satoru Kai, Akihito Otani, IHI Corporation, Yokohama, Japan; Osamu Furuya, Tokyo Denki University, Tokyo, Japan

PVP2026-176482: STUDY ON MODELING TECHNIQUES FOR PIPING WELDING JOINTS BASED ON ELASTIC-PLASTIC RESPONSE ANALYSIS
Kakeru Kimura, Naoki Tajima, IHI Corporation, Yokohama-Shi, Japan; Akihito Otani, Satoru Kai, IHI Corporation, Yokohama, Japan; Kisaburo Azuma, Nuclear Regulation Authority, Minato-ku, Japan

PVP2026-179876: NUMERICAL INVESTIGATION OF SEISMIC RESPONSE MITIGATION IN PIPING SYSTEMS BY CONSIDERING SUPPORT FAILURE
Izumi Nakamura, Taichi Fukushima, Naoto Kasahara, Tokyo City University, Setagaya, Japan

PVP2026-177209: STRESS CLASS APPROACH FOR FAILURE MODES OF PIPING ELBOWS UNDER SEISMIC LOADS
Kiyotaka Takito, Yukihiko Okuda, Tatsuhiro Yamazaki, Japan Atomic Energy Agency (JAEA), Tokai, Japan; Osamu Furuya, Tokyo Denki University, Tokyo, Japan; Izumi Nakamura, Tokyo City University, Setagaya, Japan

SESSION 2.2F (MF-14-01)

Tuesday, July 21, 10:15 am – 12:00 pm, Monterey
PROBABILISTIC ASSESSMENT OF FAILURE - 1

Developed by: David Rudland, Rudland Consulting, Frederick, MD, USA; Steven Xu, Kinectrics, Inc., Toronto, ON, Canada; Liqing Wei, Zhejiang University, Hangzhou, China; Do Jun Shim, EPRI, Palo Alto, CA, USA; Graeme Horne, Frazer-Nash Consultancy, Bristol, United Kingdom; Deepak Somasundaram, AtkinsRéalis, Mississauga, ON, Canada; Yinsheng Li, China National Nuclear Corporation, Naka, Japan
Chair: David Rudland, Rudland Consulting, Frederick, MD, USA
Co-Chair: Nathan Glunt, EPRI, Charlotte, NC, USA

PVP2026-178484: APPLICATION OF A MECHANISM-BASED SCC CGR EQUATION TO PFM EVALUATION
Dan Akazawa, Masato Koshiishi, Yasufumi Miura, Kenji Kako, Masaki Nagai, Central Research Institute of Electric Power Industry (CRIEPI), Yokosuka, Japan

PVP2026-175470: PROBABILISTIC STRUCTURAL INTEGRITY EVALUATION OF STEAM GENERATOR TUBES WITH WEAR DEFECTS
Daeyeop Kwon, Chi Bum Bahn, Pusan National University, Busan, Republic of Korea; Heejae Shin, Young-Jin Oh, KEPCO Engineering & Construction, Gimcheon, Republic of Korea; Kuk-Hee Lee, Korea Hydro & Nuclear Power Co., Ltd. (KHNP), Daejeon, Republic of Korea

PVP2026-179991: A COMPUTATIONAL FRAMEWORK FOR PREDICTING CHLORIDE-INDUCED STRESS CORROSION CRACKING IN SPENT FUEL DRY STORAGE CANISTERS
Elizabeth Twombly, Dominion Engineering, Inc., Reston, VA, USA; Robert Kurth, Engineering Mechanics Corporation of Columbus, Columbus, OH, USA

PVP2026-186837: A GENERALISED LOCAL MODEL APPROACH TOWARDS FATIGUE MODELLING OF BIMATERIAL SPECIMENS (Presentation Only)
Jorge Gil, Ana Reis, Abílio M. P. De Jesus, University of Porto, Porto, Portugal; Maria F. Vaz, Instituto Superior Técnico, Lisbon, Portugal; Beatriz Silva, IST, Lisboa, Portugal

SESSION 2.2G (DA-02-01)

Tuesday, July 21, 10:15 am – 12:00 pm, Carmel
DESIGN AND ANALYSIS OF PIPING, PIPELINES, AND COMPONENTS - 1

Developed by: Chakrapani Basavaraju, US Nuclear Regulatory Commission, Rockville, MD, USA; Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada; Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA; Bing Li, Kinectrics, Inc., Toronto, ON, Canada; Clifton Vining, Worley, Houston, TX, USA
Chair: Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada
Co-Chair: Clifton Vining, Worley, Houston, TX, USA

PVP2026-175555: EXPERIMENTAL STUDY ON THE EFFECT OF HYDROGEN EXPOSURE ON FRACTURE TOUGHNESS OF PIPE STEEL
Mark Meleka, Yao Huang, Saeed Sheikhi, Samer Adeeb, Hassan Dehghanpour, University of Alberta, Edmonton, AB, Canada; Ruslan Amarasinghe, Hydro MB, Winnipeg, Manitoba, Canada, Edmonton, AB, Canada

PVP2026-179641: BREAK PRECLUSION CONCEPT FOR PRESSURIZED WATER REACTORS (PWR) (Presentation Only)
Assia Hemara, Ala Zouaghi, EDF, Lyon, Rhône, France

PVP2026-174965: RELIABILITY DESIGN ANALYSIS FOR PROBABILISTIC DESIGN CONFIRMATION
Eric Hanson, Kevin Glime, Flowserve, Inc., Raleigh, NC, USA

PVP2026-176294: REVISITING THE LINE BLANK DESIGN RULES
Christopher Oliver, Chevron, Grand Bay, AL, USA; Jaan Taagepera, Retired, Dunedin, FL, USA

SESSION 2.2H (MF-20-02)

Tuesday, July 21, 10:15 am – 12:00 pm, San Simeon B

MATERIAL QUALITY AND FAILURE ANALYSIS (WITH WELD FAILURES SYMPOSIUM) - 2 (WITH MF-15 & MF-25)

Developed by: Kang Xu, Linde Inc., Tonawanda, NY, USA; Michiel Brongers, Kiefner and Associates Inc., Columbus, OH, USA; Jorge Penso, Shell, Houston, TX, USA; Mitul Dalal, Shell, Houston, TX, USA; Qin Ma, Walla Walla University, College Place, WA, USA
Chair: Kang Xu, Linde Inc., Tonawanda, NY, USA
Co-Chair: Michiel Brongers, Kiefner and Associates Inc., Columbus, OH, USA

PVP2026-183344: HOT SHELL EXHAUST SYSTEM WELD FAILURES DUE TO INADEQUATE INSTALLATION
Larry Danso, Agron Gjinolli, Abd Elmajeed Elkhider, Jason Dorgan, Durr Universal, Inc., Stoughton, WI, USA

PVP2026-179904: FAILURE ANALYSIS OF A UNS N06693 TUBE WELD IN STEAM GENERATION TRANSFER DUCTS
Timothy Pickle, Zhenzhen Yu, Colorado School of Mines, Golden, CO, USA; Jean Fuenmayor, Shell, Norco, LA, USA; Jorge Penso, Shell, Houston, TX, USA

PVP2026-180019: COMPARATIVE STUDY ON FATIGUE CHARACTERISTICS OF WELDED IN-PLANE AND OUT-OF-PLANE GUSSET JOINTS
Xin Chu, Jeong Hong, Vahid Barzegar, Yuan Tian, Zhi Zhang, Thornton Tomasetti, New York, NY, USA

PVP2026-184419: DIRECT COMPARISON OF TEMPERATURE-DEPENDENT IMPACT ENERGY ASSESSMENTS FOR THICK-SECTION STEEL FORGINGS (Presentation Only)
Molly Wrobleski, Joshem Gibson, Los Alamos National Laboratory, Los Alamos, NM, USA; Joshua Mueller, Michigan Technological University, Houghton, MI, USA

SESSION 2.2I (CS-22-01)

Tuesday, July 21, 10:15 am – 12:00 pm, San Simeon A

REPAIR, REPLACEMENT AND MITIGATION FOR FITNESS-FOR-SERVICE RULES - 1

Developed by: Steven McCracken, EPRI, Harrisburg, NC, USA; Jonathan Tatman, EPRI, Charlotte, NC, USA; J.P. Lacy, EPRI, Charlotte, NC, USA
Chair: Steven McCracken, EPRI, Harrisburg, NC, USA
Co-Chair: Jonathan Tatman, EPRI, Charlotte, NC, USA

PVP2026-183348: RECENT OPERATING EXPERIENCE OF REPAIR AND MITIGATION ACTIVITIES ON PRESSURIZED WATER REACTOR VESSEL BOTTOM MOUNTED NOZZLES (Presentation Only)
Gary Olson, Framatome, Lynchburg, VA, USA

PVP2026-176293: HISTORY AND FUNDAMENTALS OF TEMPER BEAD WELDING IN THE NUCLEAR POWER INDUSTRY – TEMPER BEAD WELDING PART 1
Steven L McCracken, Asif Patel, EPRI, Charlotte, NC, USA

PVP2026-180071: PROGRESS AND ADVANCEMENT OF AMBIENT TEMPERATURE TEMPER BEAD WELDING IN ASME SECTION XI – TEMPER BEAD WELDING PART 2
Steven L McCracken, Asif Patel, EPRI, Charlotte, NC, USA

SESSION 2.2J (DA-01-02)

Tuesday, July 21, 10:15 am – 12:00 pm, Avila B

DESIGN AND ANALYSIS OF PRESSURE VESSELS, HEAT EXCHANGERS, AND COMPONENTS - 2

Developed by: Nathan Barkley, Refined Engineering, Tupelo, MS, USA; Clay Rodery, C&S Technology LLC, League City, TX, USA; Roy Darby, Chevron, Houston, TX, USA; Hao Jiang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; M. Kevin Mandeville Jr., DNV, Katy, TX, USA; Qi Li, T.D. Williamson, Houston, TX, USA
Chair: M. Kevin Mandeville Jr., DNV, Katy, TX, USA
Co-Chair: Hao Jiang, Oak Ridge National Laboratory, Oak Ridge, TN, USA

PVP2026-183183: ALTERNATIVE ANALYTICAL APPROACH FOR BUCKLING OF HEAT EXCHANGER TUBES
Stephen Garlock, Joshua Fitz, Johnson Controls Inc, York, PA, USA; Joshua Borden, Johnson Controls Inc, Dover, PA, USA

PVP2026-183040: ANALYTICAL SOLUTION OF SHELL AND TUBE HEAT EXCHANGER TUBESHEET FOR PLASTIC COLLAPSE
Stephen Garlock, Joshua Fitz, Johnson Controls Inc, York, PA, USA; Joshua Borden, Johnson Controls Inc, Dover, PA, USA

PVP2026-179739: SIMPLIFIED CALCULATION METHOD FOR TUBESHEETS OF WELDED FIXED TUBESHEET HEAT EXCHANGERS WITH SINGLE TUBE PASS AND NTIW SYMMETRICAL TUBE LAYOUT
Jie Liu, Caifu Xu, Xiaolin Yang, China Wuhuan Engineering Corporation Ltd., Wuhan, China

PVP2026-179934: RELIABILITY-BASED CREEP RUPTURE ASSESSMENT OF NUCLEAR REACTOR PRESSURE VESSEL WITH UNCERTAIN CONDITIONS
Zhenyu Huang, Xiaoxiao Wang, Haofeng Chen, Weiling Luan, East China University of Science and Technology, Shanghai, China

SESSION 2.2K (MF-22-01)

Tuesday, July 21, 10:15 am – 12:00 pm, Avila A

3D CRACK GROWTH SIMULATION USING FEA – 1 (WITH DA-12 & MF-09)

Co-Sponsored by the Materials & Fabrication and Design & Analysis Technical Committees

Developed by: Do Jun Shim, EPRI, Palo Alto, CA, USA; Mohammed Uddin, Structural Integrity Associates Inc., San Jose, CA, USA; Yinsheng Li, China National Nuclear Corporation, Naka, Japan; Yifan Huang, Framatome, Charlotte, NC, USA; Sureshkumar Kalyanam, Batelle, Columbus, OH, USA
Chair: Do Jun Shim, EPRI, Palo Alto, CA, USA
Co-Chair: Sureshkumar Kalyanam, Batelle, Columbus, OH, USA

PVP2026-175841: DUCTILE FRACTURE MODELING USING THE PHASE-FIELD APPROACH FOR AN ASTM A285 MILD STEEL
Lucas T. Pegoraro, Diego F. B. Sarzosa, Universidade de São Paulo, São Paulo, Brazil; Daniel C. Ferreira, Petrobras, Cenpes, Rio de Janeiro, Brazil

PVP2026-183237: CRACK GROWTH MODELING IN COMPLEX GEOMETRIES UTILIZING THE FINITE ELEMENT ALTERNATING METHOD
Frederick (Bud) Brust, Lance Hill, Engineering Mechanics Corporation of Columbus, Columbus, OH, USA; Jay Wallace, US Nuclear Regulatory Commission, Washington, DC, USA

PVP2026-178052: OPPOSITE EFFECTS ON THE STRESS INTENSITY FACTOR DISTRIBUTION ALONG THE FRONT OF A SEMI-ELLIPTICAL SURFACE CRACK INDUCED BY AN ADJACENT PARALLEL QUARTER-CIRCLE CORNER CRACK SUBJECTED TO IN-PLANE BENDING (Presentation Only)

Mordechai Perl, Ben Gurion University of the Negev, Beer Sheva, Israel; Cesar Levy, Florida International University, Miami, FL, USA; Qin Ma, Walla Walla University, College Place, WA, USA

PVP2026-176601: DEFORMATION AND FRACTURE MODELS FOR NUCLEAR PRESSURE VESSEL MATERIALS FOR STRUCTURAL INTEGRITY ANALYSIS UNDER SEVERE ACCIDENT
Jun-Won Park, Eui-Kyun Park, Yun-Jae Kim, Korea University, Seoul, Republic of Korea; Yukio Takahashi, Central Research Institute of Electric Power Industry (CRIEPI), Chiyoda City, Japan

SESSION 2.2L (CS-07-02)

Tuesday, July 21, 10:15 am – 12:00 pm, El Capitan A
RECENT DEVELOPMENTS IN ASME CODES AND STANDARDS - 2

Developed by: Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA; Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Mark Messner, Argonne National Laboratory, Plainfield, IL, USA
Chair: Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA
Co-Chair: Mark Messner, Argonne National Laboratory, Plainfield, IL, USA

PVP2026-183599: A REVIEW OF EN 13445-5 EXAMINATION REQUIREMENTS AND COMPARISON TO ASME SECTION VIII DIVISION 2 (Presentation Only)
Clay Rodery, C&S Technology LLC, League City, TX, USA

PVP2026-183247: DEVELOPMENT OF RULES FOR PRESSURE VESSELS WITH FIRETUBES IN ASME BPVC SECTION VIII DIVISION 1 CODE CASE 3084
Roberto Robles, Integrity Engineering Solutions, Dunsborough, Australia; James Rust, Propak Systems, Airdrie, AB, Canada

PVP2026-183249: A REVIEW ON THE DEFINITION OF LETHAL SERVICE IN ASME BPVC SECTION VIII
Roberto Robles, Darryl Godfrey, Integrity Engineering Solutions, Dunsborough, Australia

PVP2026-174897: A REVIEW OF KEY UPDATES IN THE 2026 EDITION OF ASME PCC-2--REPAIR OF PRESSURE EQUIPMENT AND PIPING
Clay Rodery, C&S Technology LLC, League City, TX, USA

SESSION 2.2M (HT-05-02)

Tuesday, July 21, 10:15 am – 12:00 pm, El Capitan B
PANEL SESSION: ADVANCES IN LARGE SCALE HIP DESIGN

Developed by: Giuseppe Macoretta, University of Pisa, Pisa, Italy; Daniel Peters, Atlas Consulting LLC, Leonardtown, MD, USA
Chair: Victor Samarov, SynerTech PM, Inc., Garden Grove, CA, USA
Co-Chair: Daniel Peters, Atlas Consulting LLC, Leonardtown, MD, USA
Panelists: John Gilhooly - CISRI HIPEX (Suzhou) Innovation Center Co., Ltd.; *Large HIP Systems, Demanding Applications and Technologies Development*
Mike Conaway - Isostatic Forging International; *PVP2026-179950 (see below)*
Johannes Gårdstam, Quintus Technologies AB; *A road map to produce and use very large HIP systems - with minimized economical risk for all parties*
Daniel Peters, Atlas Consulting LLC, Leonardtown, MD, USA; *Advances and Challenges in Powder Metal HIP Processing for the Production of Large Components (from PVP2023-106338)*

PVP2026-179950: LARGE PRESSURE VESSELS BY MERGING A NOVEL HIP DESIGN AND ADVANCED PM HIP TECHNOLOGY (Presentation Only)
Robert Conaway, Isostatic Forging International, Ltd, Columbus, OH, USA; Victor Samarov, SynerTech PM, Inc., Garden Grove, CA, USA

SESSION 2.2N (CS-16-01)

Tuesday, July 21, 10:15 am – 12:00 pm, Malibu
FATIGUE AND RATCHETING ISSUES IN PRESSURE VESSEL AND PIPING DESIGN - 1/FATIGUE CODE METHODS & DESIGN CRITERIA (WITH CS-18 & MF-07)
Co-Sponsored by the Codes & Standards and Materials & Fabrication Technical Committees

Developed by: Wolf Reinhardt, AtkinsRéalis/Candu Energy Inc., Mississauga, ON, Canada; Reza Adibi-Asl, Nergx, Toronto, ON, Canada; Wanhua (Carol) Liang, AtkinsRéalis, Mississauga, ON, Canada
Chair: Eric Nadeau, AtkinsRéalis, Mississauga, ON, Canada
Co-Chair: Steven Xu, Kinectrics, Inc., Toronto, ON, Canada

PVP2026-179980: FATIGUE SCREENING METHODOLOGY DIFFERENCES BETWEEN ASME BPV SECTION VIII (NON-NUCLEAR) AND SECTION III (NUCLEAR) CODES
Koray Kuscu, Tertius Coetzee, Gregory Withers, Chicago Bridge & Iron Company, Plainfield, IL, USA

PVP2026-179623: AN EVALUATION OF THE PROTECTION AGAINST RATCHETING FOR NON-OPERATIONAL CYCLIC LOADING SCENARIO IN ASME SECTION VIII, DIVISION 2
Juan Francisco Crescente, INVAP, San Carlos de Bariloche, Argentina; Trevor Seipp, Becht, Okotoks, AB, Canada

PVP2026-182639: HOLLOW SPECIMEN METHOD FOR LOW CYCLE FATIGUE TESTING IN HIGH PRESSURE GASEOUS HYDROGEN
Thorsten Michler, Heiner Augenstein, Ken Wackermann, Fraunhofer Institute for Mechanics of Materials IWM, Freiburg, Germany; Brian Kagay, Materials Testing Institute, University of Stuttgart (MPA), Stuttgart, Germany

PVP2026-181949: VALIDATED ENGINEERING METHODS OF MULTIAXIAL FATIGUE ASSESSMENT OF POWER PLANT COMPONENTS BASED ON FATIGUE DAMAGE PARAMETERS FDPS
Jürgen Rudolph, Kopinec Milan, Mehmet Salih Kurt, Lukas Bressel, Framatome, Erlangen, Bavaria, Germany; Georg Veile, Stefan Weihe, Materials Testing Institute, University of Stuttgart (MPA), Stuttgart, Germany; Luc Doremus, Framatome, Le Creusot, Saône-et-Loire, France; Olivier Ancelet, Framatome, Paris La Défense, France

SESSION 2.2O (MF-10-01)

Tuesday, July 21, 10:15 am – 12:00 pm, Santa Monica
PIPELINE INTEGRITY - 1

Developed by: Xian-Kui Zhu, Savannah River National Laboratory, Aiken, SC, USA; Dong-Yeob Park, CanmetMATERIALS, Calgary, AB, Canada
Chair: Dong-Yeob Park, CanmetMATERIALS, Calgary, AB, Canada
Co-Chair: Xian-Kui Zhu, Savannah River National Laboratory, Aiken, SC, USA

PVP2026-176888: FRACTURE TOUGHNESS ANISOTROPY OF PIPELINE STEEL
Dong-Yeob Park, CanmetMATERIALS, Calgary, AB, Canada; Jie Liang, CanmetMATERIALS, Hamilton, ON, Canada

PVP2026-183189: INFLUENCE OF MATERIAL ANISOTROPY ON THE STRAIN RESPONSE OF BURIED X65 STEEL PIPELINES UNDER MULTIMODAL SEISMIC FAULT DISPLACEMENTS
Sabrina Jahan, Abdullah Othman, Marcelo Paredes, Texas A&M University, Galveston, TX, USA

PVP2026-179985: HYDROTEST OPTIMIZATION OF PIPELINES FOR FATIGUE CRACK LIFE ACCOUNTING FOR CRACK RETARDATION AND MINIMUM CYCLES FOR "RUPTURE FREE" OPERATION
Gery Wilkowski, Engineering Mechanics Corporation of Columbus, Upper Arlington, OH, USA; Fabian Orth, Ken Bagnoli, Engineering Mechanics Corporation of Columbus, Columbus, OH, USA; Elizabeth Twombly, Dominion Engineering, Inc., Reston, VA, USA; Sophia Hess, Edison Welding Institute, Columbus, OH, USA

PVP2026-177168: ABAQUS POST-PROCESSING RESULT ASSESSMENT FOR PLASTIC COLLAPSE ANALYSIS OF CORRODED PIPELINE
Xian-Kui Zhu, Joshua Herrington, Savannah River National Laboratory, Aiken, SC, USA

SESSION 2.2Q (TE-01-06)

Tuesday, July 21, 10:15 am – 12:00 pm, Pacific/California Foyers
TECHNOLOGY EXHIBITS - 6

Block 2.3: Tuesday, July 21, 2026 (2:00 pm – 3:45 pm)

SESSION 2.3A (AE-07-05)

Tuesday, July 21, 2:00 pm – 3:45 pm, Pacific B
MATERIAL TESTING FOR HYDROGEN SERVICE – 5 (WITH CS-02 & MF-32)
Co-Sponsored by the Advanced Energy, Codes & Standards, and Materials & Fabrication Technical Committees

Developed by: Chris San Marchi, Sandia National Laboratories, Livermore, CA, USA; Robert Wheeler, DNV, Dublin, OH, USA
Chair: Robert Wheeler, DNV, Dublin, OH, USA
Co-Chair: Chris San Marchi, Sandia National Laboratories, Livermore, CA, USA

PVP2026-179864: ENSURING THE EFFECTIVENESS AND DATA RELEVANCE OF SP TESTING FOR SCREENING HYDROGEN EMBRITTLEMENT OF METALS IN GASEOUS HYDROGEN ENVIRONMENTS (Presentation Only)
Richard Pascua, Hyung-Seop Shin, Gyeongkuk National University, Andong, Republic of Korea; Kyung-Oh Bae, Jaeyeong Park, Un-Bong Baek, Korea Research Institute of Standards and Science (KRISS), Daejeon, Republic of Korea

PVP2026-179572: MECHANICAL EVALUATION OF MATERIALS FOR HIGH-PRESSURE AND CRYOGENIC HYDROGEN SERVICE USING THE SMALL PUNCH TEST (Presentation Only)
Seung-Gun Lee, Si-Whan Lee, Jun-Yeop Lee, Jun-Ho Park, Korea Institute of Materials Science, Changwon-si, Republic of Korea

PVP2026-178424: A COMPARATIVE SMALL PUNCH STUDY ON AISI 316L WITH INTERNAL AND EXTERNAL HYDROGEN (Presentation Only)
Janne Pakarinen, Chandrahaasan Soundararajan, Asta Nurmela, Pekka Moilanen, Supriya Nandy, Napat Vajragupta, Pekka Pohjanne, Elina Huttunen-Saarivirta, VTT Technical Research Centre of Finland Ltd., Espoo, Finland

PVP2026-177265: COMPARATIVE ASSESSMENT OF WELDED C-MN AND NI-ALLOYED STEELS FOR MEDIUM-PRESSURE CO_2 STORAGE IN CCS APPLICATIONS
Carole Baudin, Sarata Cisse, Jean-Christophe Gagnepain, Industeel / ArcelorMittal, Le Creusot, France; Valery Ngomo, Industeel / ArcelorMittal, Chateauneuf, France

SESSION 2.3B (CT-04-01)

Tuesday, July 21, 2:00 pm – 3:45 pm, California A
ASSEMBLY OF BOLTED JOINTS - 1

Developed by: Anita Bausman, VSP Technologies, Kingsport, TN, USA; Linbo Zhu, Xi'an Jiaotong University, Xi'an, China; Jeffrey Wilson, VSP Technologies, Prince George, VA, USA; Mark Johnson, Integra Technologies, Overland Park, KS, USA
Chair: Anita Bausman, VSP Technologies, Kingsport, TN, USA
Co-Chair: Jeffrey Wilson, VSP Technologies, Prince George, VA, USA

PVP2026-176168: PREDICTION OF LOAD SCATTER DURING MULTI-PASS TIGHTENING OF BLIND FLANGE ASSEMBLIES.
Thomas Joly, Abdel-Hakim Bouzid, École de Technologie Supérieure, Montreal, QC, Canada; Linbo Zhu, Xi'an Jiaotong University, Xi'an, China

PVP2026-180004: EVALUATING THE BENEFITS OF DISC SPRINGS IN THERMAL CYCLING SERVICES
Carlos Daniel Girão Barroso, Igor Meira, Roberto Araújo, Teadit, Itatiba, Brazil; Marcos Barros, Braskem, Camaçari, Brazil

PVP2026-176928: EFFECTS OF SIDE LOAD ON BOLT LOAD EFFICIENCY WITH POWERED TORQUE TOOLS
Michael F. Dolan, Emmanuel Derillac, Hytorc, Mahwah, NJ, USA; Brandon Bounds, Bechtel, Houston, TX, USA; Chris P. Lilley, Chevron Products Company, Pascagoula, MS, USA

PVP2026-183398: ASME PCC-1 2026 UPDATES
Brett Thibodeaux, Citgo Petroleum Corporation, Iowa, LA, USA

SESSION 2.3C (CT-19-02)

Tuesday, July 21, 2:00 pm – 3:45 pm, California B
2ND AI SYMPOSIUM: AI, DATA ENGINEERING AND DATA ANALYSIS (WITH CT-08)

Developed by: Lindsey Elliott, Nexterity Inc., Nutley, NJ, USA; Soroosh Hakimian, École de Technologie Supérieure, Montreal, QC, Canada; Cyril Babál, OMV, Vienna, Austria; Wanhua (Carol) Liang, AtkinsRéalis, Mississauga, ON, Canada; Maria Ortiz De Zúñiga López-Chicheri, Fusion for Energy, Barcelona, Spain
Chair: Lindsey Elliott, Nexterity Inc., Nutley, NJ, USA
Co-Chair: Leonardo De La Roca, Teadit, Rio de Janeiro, Brazil

PVP2026-179914: DEEP LEARNING-ENABLED PROCESS OPTIMIZATION OF WIRE ARC ADDITIVE MANUFACTURING
Youngho Park, Allen Love, Saeed Behseresht, New Mexico State University, Las Cruces, NM, USA

PVP2026-177502: ADVANCEMENTS IN SEMI-SUPERVISED HYBRID MACHINE LEARNING FRAMEWORKS WITH APPLICATIONS TO PRESSURE CONTAINING BOUNDARIES. (Presentation Only)
Jeremy Rogers, Molly Garner, Colleen Hilla, Savannah River National Laboratory, Aiken, SC, USA

PVP2026-179911: LUCY: AN AI-DRIVEN ENTERPRISE SEARCH CHATBOT FOR ENHANCED KNOWLEDGE DISCOVERY AT ITER (Presentation Only)
Maria Ortiz De Zúñiga López-Chicheri, Fusion for Energy, Barcelona, Spain; Junmin Yang, ITER Organization, Saint-Paul-Lez-Durance, France

SESSION 2.3D (MF-36-01)

Tuesday, July 21, 2:00 pm – 3:45 pm, Sunset
ADVANCES IN HIGH TEMPERATURE REACTOR TECHNOLOGY - 1

Developed by: Kumarswamy Karpanan, Kairos Power LLC, Houston, TX, USA; Mohammed Uddin, Structural Integrity Associates Inc., San Jose, CA, USA; Sureshkumar Kalyanam, Batelle, Columbus, OH, USA; Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Andrew Owens, TerraPower LLC, Round Rock, TX, USA; Alex Mieloszyk, TerraPower LLC, Seattle, WA, USA
Chair: Kumarswamy Karpanan, Kairos Power LLC, Houston, TX, USA
Co-Chair: Andrew Owens, TerraPower LLC, Round Rock, TX, USA

PVP2026-175444: REMOTE HANDLING CAPABLE, COMPACT, CLAMP CONNECTOR FOR SMALL MODULAR REACTORS
Vladimir Kovalevsky, Chad Nixon, Henry Korellis, Kairos Power LLC, Alameda, CA, USA; Miroslav Mihalj, Kairos Power LLC, Albuquerque, NM, USA; Kumarswamy Karpanan, Kairos Power LLC, Houston, TX, USA

PVP2026-183036: ALLOY 625 DERIVED PROPERTIES FOR ELEVATED-TEMPERATURE DESIGN IN ASME BPVC SECTION III, DIVISION 5
Ramesh Rajasekaran, Jeff Koza-Reinders, Caitlin Huotilainen, Haley Barsa, David Bankston, Daniel Walter, Rajab El-Ostah, TerraPower LLC, Bellevue, WA, USA

PVP2026-182123: STRUCTURAL RELIABILITY EVALUATION OF SODIUM FAST REACTOR COMPONENTS
Natheniel Cofie, Dilip Dedhia, Cedric Sallaberry, Younes Marih, Mohammed Uddin, Structural Integrity Associates Inc., San Jose, CA, USA; Heqin Xu, Matthew Mallet, Tamas Liszkai, TerraPower LLC, Bellevue, WA, USA

SESSION 2.3E (SE-07-01)

Tuesday, July 21, 2:00 pm – 3:45 pm, Salinas
THE MICHAEL E. NITZEL MEMORIAL SYMPOSIUM ON SEISMIC ENGINEERING: SEISMIC EVALUATION OF SYSTEMS, STRUCTURES AND COMPONENTS - 1

Developed by: Satoru Kai, IHI Corporation, Yokohama, Japan; Jinsuo Nie, US Nuclear Regulatory Commission, Washington, DC, USA

Chair: Satoru Kai, IHI Corporation, Yokohama, Japan
Co-Chair: Jinsuo Nie, US Nuclear Regulatory Commission, Washington, DC, USA

PVP2026-180078: LEAKAGE BEHAVIOR OF REINFORCED CONCRETE SHEAR WALLS WITH DIAGONAL CRACKING UNDER CYCLIC LOADING
Yousang Lee, Hong-Gun Park, Seoul National University of Science and Technology, Seoul, Republic of Korea

PVP2026-183358: FAULT DISPLACEMENT ASSESSMENT FOR ENGINEERING DESIGN ON THE MEISHAN FAULT IN TAIWAN
Hsun-Jen Liu, Yu-Wen Chang, National Center for Research on Earthquake Engineering, Taipei City, Taiwan

PVP2026-183263: SEISMIC FINITE ELEMENT ANALYSIS OF INTER-CONNECTED PIPES CONSIDERING DIFFERENT HANGER SUPPORT DESIGN CONFIGURATIONS
Ben Fazel, Evan Munroe, Jefferson Wu, Usama Abdelsalam, George Biasutto, AtkinsRéalis/Candu Energy Inc., Mississauga, ON, Canada

PVP2026-183201: NUMERICAL MODELING OF BURIED PIPELINES WITH DIFFERENT STATISTICAL CORROSION DISTRIBUTIONS UNDER STRIKE-SLIP FAULTING
Mitra Farhang, Himan Jalali, The University of Texas at Arlington, Arlington, TX, USA

SESSION 2.3G (DA-02-02)

Tuesday, July 21, 2:00 pm – 3:45 pm, Carmel
DESIGN AND ANALYSIS OF PIPING, PIPELINES, AND COMPONENTS - 2

Developed by: Chakrapani Basavaraju, US Nuclear Regulatory Commission, Rockville, MD, USA; Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada; Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA; Bing Li, Kinectrics, Inc., Toronto, ON, Canada; Clifton Vining, Worley, Houston, TX, USA
Chair: Bing Li, Kinectrics, Inc., Toronto, ON, Canada
Co-Chair: Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada

PVP2026-179925: METALLIC PIPE CRIMPING: A CASE STUDY AND ASME PCC-2 UPDATES
Christopher Oliver, Chevron, Grand Bay, AL, USA; Jackson Baldwin, Chevron, Ocean Springs, MS, USA

PVP2026-180053: LIMIT LOAD SOLUTIONS FOR ELBOWS WITH CIRCUMFERENTIAL CRACKS UNDER BENDING AND COMBINED LOADING CONSIDERING LARGE DEFORMATION EFFECTS
Ji-Hye Kim, Yun-Jae Kim, Korea University, Seoul, Republic of Korea

PVP2026-176358: EFFECT OF ROUTING DESIGN OF ISMR MAIN STEAM PIPING ON FATIGUE LIFE USING ASME CODE CASE N-779
Young-Ha Lee, Jae-Yoon Kim, Shin-Je Park, Yun-Jae Kim, Korea University, Seoul, Republic of Korea; Jin-Weon Kim, Chosun University, Gwangju, Republic of Korea; Tae-Soon Kim, Hyun-Suk Nam, Korea Hydro & Nuclear Power Co., Ltd. (KHNP), Daejeon, Republic of Korea

PVP2026-179656: MECHANICAL BEHAVIOR OF PIPELINES SUBJECTED TO COMBINED LATERAL CRUSHING AND EXTERNAL AXIAL FORCE
Yonggui Chen, Sunting Yan, Chenfeng Guan, Wei Zhang, Tianyu Weng, Ping Tang, Zhejiang Academy of Special Equipment Science, Hangzhou, China

SESSION 2.3H (OAC-06-01)

Tuesday, July 21, 2:00 pm – 3:45 pm, San Simeon B
THE TAKAYASU TAHARA MEMORIAL SESSION ON OPERATION AND MAINTENANCE OF PLANT EQUIPMENT (WITH WELD FAILURES SYMPOSIUM) - 1

Developed by: Ayman Cheta, Shell, Houston, TX, USA; Yasumasa Shoji, YS Corporation LLC, Mushashino, Japan; Junya Takahashi, Sumitomo Chemical, Niihama, Japan; Jorge Penso, Shell, Houston, TX, USA; Alton Reich, Streamline Automation, LLC, Huntsville, AL, USA
Chair: Ayman Cheta, Shell, Houston, TX, USA
Co-Chair: Junya Takahashi, Sumitomo Chemical, Niihama, Japan

PVP2026-176335: KEY POINTS FOR WELDING OF DUPLEX STAINLESS STEELS
Masahiro Nakano, Takada Corporation, Kitakyushu, Japan; Hiroyuki Iwamoto, Gotairiku Corporation, Yokohama, Japan; Takahisa Hoshika, Sumitomo Chemical, Niihama, Japan; Fumiyoshi Minami, Osaka University, Suita, Japan

PVP2026-177268: EVALUATION OF NITROGEN BACKING IN TIG WELDING OF AUSTENITIC STAINLESS STEEL FOR INDUSTRIAL APPLICATIONS
Ryotaro Ichimura, Eiki Nagashima, Toyo Engineering Corporation, Chiba, Japan; Yasuyuki Yokota, Kobe Steel, Ltd., Fujisawa, Japan; Fumiyoshi Minami, Osaka University, Suita, Japan

PVP2026-175052: DEVELOPMENT OF ADVANCED ULTRASONIC, RADIOGRAPHIC, AND ELECTROMAGNETIC NON-DESTRUCTIVE TESTING TECHNIQUES FOR HEAT EXCHANGER TUBES AND TUBE-END WELDS
Toyokazu Tada, Junya Takahashi, Sumitomo Chemical, Niihama, Japan

PVP2026-176332: GUIDELINES FOR REPAIR WELDING OF PLANT PRESSURE EQUIPMENT (REVISED EDITION) (Presentation Only)
Masahiro Nakano, Takada Corporation, Kitakyushu, Japan; Kazuhiro Tsuno, RAIZNEXT Corporation, Yokohama, Japan; Fumiyoshi Minami, Osaka University, Suita, Japan

SESSION 2.3I (CS-22-02)

Tuesday, July 21, 2:00 pm – 3:45 pm, San Simeon A
REPAIR, REPLACEMENT AND MITIGATION FOR FITNESS-FOR-SERVICE RULES - 2

Developed by: Steven McCracken, EPRI, Harrisburg, NC, USA; Jonathan Tatman, EPRI, Charlotte, NC, USA; J.P. Lacy, EPRI, Charlotte, NC, USA
Chair: Steven McCracken, EPRI, Harrisburg, NC, USA
Co-Chair: Jonathan Tatman, EPRI, Charlotte, NC, USA

PVP2026-180045: IMPROVEMENTS IN THE PRESERVICE INSPECTION AND EVALUATION CRITERIA FOR ASME CODE ACCEPTANCE
Timothy Griesbach, Structural Integrity Associates Inc., Danville, CA, USA; Sampath Ranganath, Structural Integrity Associates Inc., San Jose, CA, USA; Steven McCracken, EPRI, Harrisburg, NC, USA

PVP2026-179878: TECHNICAL BASIS FOR PERFORMING UT IN LIEU OF RT FOR NEW CONSTRUCTION (Presentation Only)
Ronnie Swain, EPRI, Palo Alto, CA, USA

PVP2026-180945: CASE STUDY: THE FIRST IMPLEMENTATION OF HDPE PIPING USED IN A BURIED NUCLEAR CLASS 3 SYSTEM CATEGORIZED AS LOW SAFETY SIGNIFICANT (Presentation Only)
Shane Schuessler, ISCO Industries, Inc., Louisville, KY, USA; J. E. (Jim) O'Sullivan, PE, Procon1, LLC, St. Louis, MO, USA

PVP2026-180170: REDEFINING PIPING MAINTENANCE: REDUCING DOWNTIME, RISK AND EMISSIONS IN LIVE PIPING MAINTENANCE
Bander Alotaibi, Senhat Alotaibi, Mansour Almukhiled, Saudi Aramco, Dhahran, Saudi Arabia; Svein Milwertz, Izomax, 4033 Stavanger, Norway

SESSION 2.3J (DA-01-03)

Tuesday, July 21, 2:00 pm – 3:45 pm, Avila B
DESIGN AND ANALYSIS OF PRESSURE VESSELS, HEAT EXCHANGERS, AND COMPONENTS - 3

Developed by: Nathan Barkley, Refined Engineering, Tupelo, MS, USA; Clay Rodery, C&S Technology LLC, League City, TX, USA; Roy Darby, Chevron, Houston, TX, USA; Hao Jiang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; M. Kevin Mandeville Jr., DNV, Katy, TX, USA; Qi Li, T.D. Williamson, Houston, TX, USA
Chair: Hao Jiang, Oak Ridge National Laboratory, Oak Ridge, TN, USA
Co-Chair: Qi Li, T.D. Williamson, Houston, TX, USA

PVP2026-183576: NOZZLE LOCAL LOAD ANALYSIS PERFORMED BY WRC BULLETIN METHODS AND FINITE ELEMENT ANALYSIS - A COMPARATIVE STUDY

Sudip Ganguly, Bentley Systems, Kolkata, India

PVP2026-179785: STRUCTURAL INTEGRITY FOR NOZZLE ON PILLOW PLATE HEAT EXCHANGER FOR BURST PRESSURE TEST AS PER ASME SECTION VIII DIV.2 DESIGN BY ANALYSIS (FINITE ELEMENT ANALYSIS)
Hemant Abhale, RH Technologies, Pune, India; Shamin Sidhaye, LRQA Inspection Services India LLP, Mumbai, India

PVP2026-179619: EVALUATION OF REINFORCEMENT AND STRESS BEHAVIOR AROUND SWAGE NOZZLES ON RECTANGULAR AIR COOLER HEADERS AS PER ASME SECTION VIII, DIVISION 1, PART UNC 2025 EDITION (APPENDIX 13, 2023 EDITION)
Shamin Sidhaye, Vaibhav Mahajan, LRQA Inspection Services India LLP, Mumbai, India; Hemant Abhale, RH Technologies, Pune, India

PVP2026-182987: GAS TURBINE EXHAUST SYSTEMS UNDER INTERNAL DYNAMIC PRESSURE FLUCTUATION LOADING
Abd Elmajeed Elkhider, Larry Danso, Agron Gjinolli, Jason Dorgan, Durr Universal, Inc., Stoughton, WI, USA

SESSION 2.3L (CS-07-03)

Tuesday, July 21, 2:00 pm – 3:45 pm, El Capitan A

RECENT DEVELOPMENTS IN ASME CODES AND STANDARDS - 3

Developed by: Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA; Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Mark Messner, Argonne National Laboratory, Plainfield, IL, USA
Chair: Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA
Co-Chair: Mark Messner, Argonne National Laboratory, Plainfield, IL, USA

PVP2026-179949: AN OUTLINE FOR QUALIFYING LASER-POWDER BED FUSION 316 FOR SECTION III, DIVISION 5, CLASS A CONSTRUCTION
Mark Messner, Argonne National Laboratory, Plainfield, IL, USA; Michael McMurtrey, Heramb Mahajan, Idaho National Laboratory, Idaho Falls, ID, USA; Caleb Massey, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Xuan Zhang, Yiren Chen, Argonne National Laboratory, Lemont, IL, USA

PVP2026-175865: ALLOY 625 QUALIFICATION FOR ELEVATED TEMPERATURE NUCLEAR COMPONENT CONSTRUCTION
Heramb Mahajan, Michael McMurtrey, Idaho National Laboratory, Idaho Falls, ID, USA; Bipul Barua, Argonne National Laboratory, Lemont, IL, USA; Mark Messner, Argonne National Laboratory, Plainfield, IL, USA; Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA

PVP2026-175261: EFFECTS OF 30,000-HOUR LONG-TERM AGING ON ALLOY 709
Xuesong Fan, Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA

PVP2026-179933: MICROSTRUCTURE CHARACTERIZATION OF ALLOY 709 AGED AT 1000F AND 1200F (Presentation Only)
Heramb Mahajan, Ninad Mohale, Idaho National Laboratory, Idaho Falls, ID, USA

SESSION 2.3M (HT-05-03)

Tuesday, July 21, 2:00 pm – 3:45 pm, El Capitan B

PANEL SESSION: ADVANCES IN HIP PROCESS MODELLING

Developed by: Giuseppe Macoretta, University of Pisa, Pisa, Italy; Daniel Peters, Atlas Consulting LLC, Leonardtown, MD, USA
Chair: Victor Samarov, SynerTech PM, Inc., Garden Grove, CA, USA
Co-Chair: Daniel Peters, Atlas Consulting LLC, Leonardtown, MD, USA
Panelists: Jason Mayeur – Oak Ridge National Laboratory; *Towards Integrated Manufacturing, Digital Engineering, and Qualification Strategies for Large-Scale PM-HIP Components*
Abhi Basu, Gravitas; Cliff Orcutt, American Isostatic Press
Yan Liu - Simtec Soft Sweden AB; *Holistic, Fully Coupled Thermo-Mechanical Simulation of Very Large PM Parts Throughout the HIP Cycle and Process Control*

SESSION 2.3N (CS-17-01)

Tuesday, July 21, 2:00 pm – 3:45 pm, Malibu

ENVIRONMENTAL FATIGUE ISSUES - 1/ENVIRONMENTAL FATIGUE IN NUCLEAR/PWR ENVIRONMENTS

Developed by: Seiji Asada, Mitsubishi Heavy Industries, Ltd., Kobe, Japan; Thomas Damiani, EPRI, Palo Alto, CA, USA
Chair: Seiji Asada, Mitsubishi Heavy Industries, Ltd., Kobe, Japan
Co-Chair: Thomas Damiani, EPRI, Palo Alto, CA, USA

PVP2026-180018: INFLUENCE OF INSENSITIVE STRAIN REGION FOR STRAIN RATE ON FATIGUE LIFE OF STAINLESS STEEL IN OXYGENATED PWR PRIMARY WATER ENVIRONMENT
Masayuki Kamaya, Institute of Nuclear Safety System, Mihama-Cho, Japan

PVP2026-176119: INCEFA-PLUS AND INCEFA-SCALE: A DECADE OF EUROPEAN RESEARCH ON ENVIRONMENTALLY ASSISTED FATIGUE IN PWR ENVIRONMENTS
Sergio Arrieta, Sergio Cicero González, University of Cantabria, Santander, Spain; Alec McLennan, Jack Beswick, Amentum, Warrington, Cheshire, United Kingdom

PVP2026-179915: UNDERLYING ENVIRONMENTAL FATIGUE CRACK GROWTH BEHAVIOUR OF AUSTENITIC STAINLESS STEEL INCLUDING LOW TEMPERATURE ENHANCEMENT
Jonathan Mann, Felicity Pickering, Keith Rigby, Amentum, Warrington, Cheshire, United Kingdom; Andrew Morley, Ben Howe, Rolls-Royce, Derby, United Kingdom; Chris Currie, Rolls-Royce, Derby, Derbyshire, United Kingdom

PVP2026-183368: ENVIRONMENTALLY ASSISTED FATIGUE COMPONENT TEST: TRANSIENT BENCHMARKING AND NON-DESTRUCTIVE EVALUATION QUALIFICATION (Presentation Only)
Thomas Damiani, EPRI, Palo Alto, CA, USA; Andrew Morley, Rolls-Royce, Derby, United Kingdom; Sam Cuvillies, EDF, Lyon, Rhône, France

SESSION 2.3O (MF-10-02)

Tuesday, July 21, 2:00 pm – 3:45 pm, Santa Monica

PIPELINE INTEGRITY - 2

Developed by: Xian-Kui Zhu, Savannah River National Laboratory, Aiken, SC, USA; Dong-Yeob Park, CanmetMATERIALS, Calgary, AB, Canada
Chair: Gang Tao, C-FER Technologies, Edmonton, AB, Canada
Co-Chair: Xian-Kui Zhu, Savannah River National Laboratory, Aiken, SC, USA

PVP2026-178186: EVALUATION OF REMAINING BURST STRENGTH MODELS FOR DOWNHOLE TUBULAR APPLICATION
Gang Tao, C-FER Technologies, Edmonton, AB, Canada

PVP2026-183255: CHARACTERIZATION OF CRACK-TIP FIELDS FOR ANISOTROPIC PLASTIC MATERIALS: EFFECTS OF T-STRESS
Zhaoyu Jin, Xin Wang, Carleton University, Ottawa, ON, Canada

PVP2026-179501: NUMERICAL ANALYSIS OF PLASTIC BUCKLING BEHAVIOR OF STEAM GENERATOR TUBES WITH WEAR DEFECT UNDER EXTERNAL PRESSURE
Hwang-Young Choi, Eui-Kyun Park, Jun-Won Park, Yun-Jae Kim, Jong-in Kim, Korea University, Seoul, Republic of Korea

PVP2026-183160: INTEGRATING ILI MEASUREMENT UNCERTAINTY INTO THE RSTRENG METHOD VIA MONTE CARLO SIMULATION
Seyyed Mohammad Mojtahed Haeri, Shaghayegh Abtahi, Samer Adeeb, Mark Nageh Nassief Meleka, University of Alberta, Edmonton, AB, Canada; Saher Attia, Cairo University - University of Alberta, Edmonton, AB, Canada; Khurram Shahzad, Enbridge, Edmonton, AB, Canada

SESSION 2.3P (TW-01-07)

Tuesday, July 21, 2:00 pm – 3:45 pm, Pacific A

TECHNICAL TUTORIAL: FRACTURE MECHANICS APPLICATIONS FOR PIPING - PART 1

Chair: Gery M. Wilkowski, Engineering Mechanics Corporation of Columbus, Columbus, OH, USA
Co-Chair: Andrew Duncan, Savannah River National Laboratory, Aiken, SC, USA

SESSION 2.3Q (TE-01-07)

Tuesday, July 21, 2:00 pm – 3:45 pm, Pacific/California Foyers
TECHNOLOGY EXHIBITS - 7

Block 2.4: Tuesday, July 21, 2026 (4:15 pm – 6:00 pm)

SESSION 2.4A (AE-02-01)

Tuesday, July 21, 4:15 pm – 6:00 pm, Pacific B
HIGH PRESSURE HYDROGEN EQUIPMENT – 1 (WITH HT-07)

Co-Sponsored by the Advanced Energy and High Pressure Technology Technical Committees

Developed by: Melanie Sarzynski, Becht, Houston, TX, USA
Chair: Bostjan Bezensek, Shell, Aberdeen, United Kingdom
Co-Chair: Nicolas Larrosa, University of Bristol, Bristol, United Kingdom

PVP2026-177428: HYCOMAT TECHNICAL PLATFORM: LOAD FRAMES AND PRESSURE VESSELS DESIGNED FOR HIGH-PRESSURE TESTING OF METALLIC AND POLYMER MATERIALS
Romain Walter, Guillaume Benoit, Gilbert Hénaff, Romain Chochoy, Eric Lainé, Jean-Claude Grandidier, Institut Pprime, Chasseneuil-du-Poitou, France

PVP2026-180337: THE UNIVERSAL FAILURE CURVE APPROACH FOR HYDROGEN PIPELINES AND PRESSURE VESSELS DESIGN
Nicolas Larrosa, University of Bristol, Bristol, United Kingdom; Daniel Blanks, Quest Integrity, Gold Coast, Queensland, Australia; Robert A. Ainsworth, University of Manchester, Manchester, United Kingdom

PVP2026-182809: EFFECT OF HIGH TEMPERATURE ON THE BURST CHARACTERISTICS OF TYPE IV HYDROGEN CYLINDERS (Presentation Only)
Clément Nony-Davadie, Anthony Levillain, Pavel Druzinhin, OPmobility, H2 Power Business Group, Venette, France; Pawel Gasior, Jerzy Kaleta, Rafal Mech, Wroclaw University of Science and Technology, Wroclaw, Poland

SESSION 2.4B (CT-04-02)

Tuesday, July 21, 4:15 pm – 6:00 pm, California A
ASSEMBLY OF BOLTED JOINTS – 2 (WITH CT-03, CT-05 & DA-10)

Co-Sponsored by the Computer Technology & Bolted Joints and Design & Analysis Technical Committees

Developed by: Anita Bausman, VSP Technologies, Kingsport, TN, USA; Linbo Zhu, Xi'an Jiaotong University, Xi'an, China; Jeffrey Wilson, VSP Technologies, Prince George, VA, USA; Mark Johnson, Integra Technologies, Overland Park, KS, USA
Chair: Anita Bausman, VSP Technologies, Kingsport, TN, USA
Co-Chair: Jeffrey Wilson, VSP Technologies, Prince George, VA, USA

PVP2026-183041: FINITE ELEMENT ANALYSIS OF ASME PCC-1 BOLT TIGHTENING SEQUENCES: EFFECTS ON PRELOAD SPREAD AND SEALING IN AN API FLANGE
Leonardo De Oliveira Cabral Barbosa, Thiago Daflon dos Santos, TechnipFMC, Niterói, Brazil; Raphael Santana Silva, Guilherme Sousa Moura, Pedro Henrique Lutz Neves, TechnipFMC, Rio de Janeiro, Brazil

PVP2026-174954: EFFECT OF FLANGE ROTATION ON THE MOMENT ARM AND GASKET COMPRESSION BEHAVIOR IN LARGE-DIAMETER FLANGES
Takashi Kobayashi, National Institute of Standards & Technology, Konan, Japan; Koji Sato, Nord-Lock, Minoh-Shi, Japan; Masato Takenaka, Nord-Lock, Minoo, Japan

PVP2026-184896: UPDATED WRC 538 / ASME PCC-1 APPENDIX O FLANGE STRENGTH LIMITS
Warren Brown, Gysbert van Zyl, Raaid Allam, Integrity Engineering Solutions, Dunsborough, Australia

PVP2026-179916: PARAMETRIC STUDY OF THREADED JOINT LOOSENING UNDER TRANSVERSE LOADING
Khaled Gammoudi, ISSAT Gafsa, Maknassi, Tunisia; Fathallah Ons, ISSAT Gafsa, Souassi, Tunisia; Abdel-Hakim Bouzid, École de Technologie Supérieure, Montreal, QC, Canada; Maher Dammak, Mohamed Kharrat, École Nationale d'Ingénieurs de Sfax, Sfax, Tunisia

SESSION 2.4C (SE-04-01/NDE-03-01)

Tuesday, July 21, 4:15 pm – 6:00 pm, California B
2ND AI SYMPOSIUM: MACHINE LEARNING AND ADVANCED COMPUTATION FOR SEISMIC ANALYSIS OF INDUSTRIAL FACILITIES AND NDE RELIABILITY

Co-Sponsored by the Seismic Engineering and ASME NDE, Diagnosis and Prognosis Division Technical Committees

Developed by: Gianluca Quinci, Roma Tre University, Rome, Italy; Fabrizio Paolacci, Roma Tre University, Rome, Italy; Oreste Bursi, University of Trento, Trento, Italy
Chair: Gianluca Quinci, Roma Tre University, Rome, Italy
Co-Chair: Fabrizio Paolacci, Roma Tre University, Rome, Italy

PVP2026-180141: VISION-BASED POST-EARTHQUAKE DAMAGE RECOGNITION FOR INDUSTRIAL TANKS VIA SPECTROGRAM-CNNS WITH TRANSFER LEARNING
Gianluca Quinci, Fabrizio Paolacci, Roma Tre University, Rome, Italy; Wang Zhu, Tongji University, Shanghai, China; Alessandra Marino, INAIL, Rome, Italy

PVP2026-180150: EFFICIENT SEISMIC RISK ASSESSMENT OF HV ELECTRICAL EQUIPMENT UNDER MATERIAL UNCERTAINTY USING MACHINE LEARNING
Wang Zhu, Qiang Xie, Tongji University, Shanghai, China; Fabrizio Paolacci, Gianluca Quinci, Roma Tre University, Rome, Italy; Mariano Ciucci, INAIL, Rome, Italy

PVP2026-180226: COMPUTATIONAL FRAMEWORK FOR DATA-DRIVEN FLAW SIZING IN AUSTENITIC WELDS: SUPPORTING ASME SECTION V NDE DEVELOPMENT
Tapiwa Mutasa, Junyan He, Adarsh Chaurasia, Sunil Acharya, Ansys, Inc., Canonsburg, PA, USA

PVP2026-179713: DEEP LEARNING-BASED PREDICTION METHOD FOR DISPLACEMENT RESPONSE OF DELAMINATION DEFECTS IN COMPOSITE HYDROGEN STORAGE VESSELS
Youjin Li, Li Ma, Zheng Liu, Zhejiang University, Hangzhou, China

SESSION 2.4D (CS-27-01)

Tuesday, July 21, 4:15 pm – 6:00 pm, Sunset
MATERIALS SURVEILLANCE FOR HIGH TEMPERATURE REACTORS - 1 (WITH CS-04)

Developed by: Mark Messner, Argonne National Laboratory, Plainfield, IL, USA; Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA
Chair: Mark Messner, Argonne National Laboratory, Plainfield, IL, USA
Co-Chair: David Rudland, Rudland Consulting, Frederick, MD, USA

PVP2026-177546: MATERIALS SURVEILLANCE METHODOLOGY FOR MONITORING MATERIAL DEGRADATION IN NUCLEAR REACTORS
Xinchang Zhang, Heramb Mahajan, Kuo Yuan, Ruchi Gakhar, Michael McMurtrey, Idaho National Laboratory, Idaho Falls, ID, USA

PVP2026-179945: APPLICATION OF SIMPLIFIED METHODS TO SIZE A SURVEILLANCE ARTICLE AND ESTIMATE REMAINING LIFE: A SAMPLE PROBLEM
Bipul Barua, Guosheng Ye, Abhishek Bhesania, Argonne National Laboratory, Lemont, IL, USA; Mark Messner, Argonne National Laboratory, Plainfield, IL, USA

PVP2026-182805: HIGH SPEED FRACTURE TESTING - COMPARING CURRENT STANDARD METHODS TO MULTI-SPECIMEN ASSESSMENT USING A NOVEL SERVO-HYDRAULIC TEST RIG (Presentation Only)
Ben Sargeant, Imperial College London, London, United Kingdom

SESSION 2.4F (OAC-07-01)

Tuesday, July 21, 4:15 pm – 6:00 pm, Monterey
LONG TERM OPERATION AND AGING MANAGEMENT - 1 (WITH OAC-03)

Developed by: Ciska de Haan - de Wilde, NRG, Petten, Netherlands; Georges Bezdikian, Consultant, Le Vésinet, France; Keiko Chitose, OECD NEA, Paris, France
Chair: Ciska de Haan - de Wilde, NRG, Petten, Netherlands
Co-Chair: Keiko Chitose, OECD NEA, Paris, France

PVP2026-183333: DEVELOPMENT MECHANICAL INTEGRITY PROGRAM FOR AMMONIA ASSETS
Thomas Draper, Structural Integrity Associates Inc., Centennial, CO, USA; Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA

PVP2026-176406: THE INTERNATIONAL OPERATING EXPERIENCE INVOLVING VIBRATION FATIGUE OF SMALL-DIAMETER PIPING
Keiko Chitose, OECD NEA, Paris, France; Bengt Lydell, Sigma-Phase Inc.., Vero Beach, FL, USA; Eric Focht, US Nuclear Regulatory Commission, Washington, DC, USA

PVP2026-175735: FATIGUE CRACK GROWTH AND CYCLIC CRACK TIP PLASTICITY IN HIGH DELTA-K CONDITIONS
Martin Gillet, Catrin Mair-Davies, Imperial College London, London, United Kingdom

PVP2026-179936: STRESS CORROSION CRACKING AND ENVIRONMENTALLY ASSISTED FATIGUE BEHAVIOR OF ADDITIVELY MANUFACTURED 316L STAINLESS STEEL IN LIGHT WATER REACTOR ENVIRONMENT (Presentation Only)
Bogdan Alexandreanu, Xuan Zhang, Argonne National Laboratory, Lemont, IL, USA; Yiren Chen, Wei Chen, Srinivas Aditya Mantri, Argonne National Laboratory, Argonne, IL, USA

SESSION 2.4G (DA-02-03)

Tuesday, July 21, 4:15 pm – 6:00 pm, Carmel
DESIGN AND ANALYSIS OF PIPING, PIPELINES, AND COMPONENTS - 3
Developed by: Chakrapani Basavaraju, US Nuclear Regulatory Commission, Rockville, MD, USA; Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada; Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA; Bing Li, Kinectrics, Inc., Toronto, ON, Canada; Clifton Vining, Worley, Houston, TX, USA
Chair: Clifton Vining, Worley, Houston, TX, USA
Co-Chair: Bing Li, Kinectrics, Inc., Toronto, ON, Canada

PVP2026-183211: SIMULATION AND EVALUATION OF STRUCTURAL HEALTH MONITORING FOR SHORT CARBON FIBER REINFORCED POLYETHYLENE ELECTROFUSION JOINTS
Quan Gu, Jianfeng Shi, Jinyang Zheng, Zhejiang University, Hangzhou, China

PVP2026-182667: EXPLORING AND RESOLVING THE MEAN-PRESSURE CONTROVERSY FOR DENTED PIPES
Brian Leis, B N Leis, Consultant Inc., Bonita Beach, FL, USA; Amin Eshraghi, Acuren, Calgary, AB, Canada

PVP2026-182636: NUMERICAL EVALUATION OF DENT-DENT AND DENT-WELD INTERACTION
Brian Leis, B N Leis, Consultant Inc., Bonita Beach, FL, USA; Amin Eshraghi, Acuren, Calgary, AB, Canada

PVP2026-180099: FINITE ELEMENT MODELING OF PAD-REINFORCED TRUNNIONS TO ASSESS B31J STRESS INTENSIFICATION FACTORS
Issei Ota, Shunji Kataoka, Tomohiro Ueno, JGC Corporation, Yokohama, Japan; Hiroyuki Kosasayama, JGC Corporation, Nishi-ku, Japan

SESSION 2.4H (OAC-06-02)

Tuesday, July 21, 4:15 pm – 6:00 pm, San Simeon B
OPERATION AND MAINTENANCE OF PLANT EQUIPMENT (WITH WELD FAILURES SYMPOSIUM) - 2
Developed by: Ayman Cheta, Shell, Houston, TX, USA; Yasumasa Shoji, YS Corporation LLC, Mushashino, Japan; Junya Takahashi, Sumitomo Chemical, Niihama, Japan; Jorge Penso, Shell, Houston, TX, USA; Alton Reich, Streamline Automation, LLC, Huntsville, AL, USA
Chair: Junya Takahashi, Sumitomo Chemical, Niihama, Japan
Co-Chair: Ayman Cheta, Shell, Houston, TX, USA

PVP2026-183071: IN-SITU CREEP TESTING OF SA516-GRADE 70 WELDS UNDER HIGH-TEMPERATURE HIGH-PRESSURE HYDROGEN: INSIGHTS INTO H2-ASSISTED MATERIAL DEGRADATION
Xuesong Fan, Yanli Wang, Wei Zhang, Brad Hall, Andres Rossy, Jeremy Moser, Yiyu (Jason) Wang, Zhili Feng, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Jorge Penso, Shell, Houston, TX, USA

PVP2026-180398: AN INVESTIGATION OF NONUNIFORM HIGH TEMPERATURE HYDROGEN ATTACK IN SA516 GRADE 70 CARBON STEEL WELDMENT
Yiyu (Jason) Wang, Yanli Wang, Xuesong Fan, Zhili Feng, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Stoichko Antonov, Casey Carney, National Energy Technology Laboratory, Albany, OR, USA; Jorge Penso, Shell, Houston, TX, USA

PVP2026-179900: DISCUSSION ON STRESS RELAXATION CRACKING AND CREEP IN AUSTENITIC STAINLESS STEEL WELDS USING EXPERIMENTATION AND PREDICTIVE MODELING (Presentation Only)
Timothy Pickle, Olivia Russell, Zhenzhen Yu, Colorado School of Mines, Golden, CO, USA; C Andrew Kocak, Yanfei Gao, University of Tennessee, Knoxville, TN, USA; Jean Fuenmayor, Shell, Norco, LA, USA; Julian Osorio, National Renewable Energy Laboratory, Golden, CO, USA; Zhili Feng, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Jorge Penso, Shell, Houston, TX, USA

PVP2026-176086: REVISION OF WES 2820 FITNESS-FOR-SERVICE ASSESSMENT PROCEDURE FOR PRESSURE EQUIPMENT – METAL LOSS ASSESSMENT
Koki Saito, Mitsubishi Chemical Corporation, Kamisu-Shi, Japan; Junya Takahashi, Takuyo Kaida, Sumitomo Chemical, Niihama, Japan; Atsushi Yamaguchi, National Institute of Occupational Safety and Health, Kiyose, Japan; Fumiyoshi Minami, Osaka University, Suita, Japan

SESSION 2.4I (CS-22-03)

Tuesday, July 21, 4:15 pm – 6:00 pm, San Simeon A
REPAIR, REPLACEMENT AND MITIGATION FOR FITNESS-FOR-SERVICE RULES - 3
Developed by: Steven McCracken, EPRI, Harrisburg, NC, USA; Jonathan Tatman, EPRI, Charlotte, NC, USA; J.P. Lacy, EPRI, Charlotte, NC, USA
Chair: Steven McCracken, EPRI, Harrisburg, NC, USA
Co-Chair: Jonathan Tatman, EPRI, Charlotte, NC, USA

PVP2026-183152: MYTH, MYSTERY AND REALITY – ASPECTS OF USE AND DURABILITY OF COMPOSITES IN REHABILITATION OF PIPELINE SYSTEMS (Presentation Only)
Vistasp Karbhari, University of Texas Arlington, Arlington, TX, USA; Graham Bell, Anna Pridmore, Structural Technologies, Columbia, MD, USA; Rasko Ojdrovic, Simpson Gumpertz & Heger Inc., Boston, MA, USA

PVP2026-179285: THERMAL EXPANSION OVER-STRESS OR OVER-LOAD - SECTION XI (Presentation Only)
Raymond Pace, Aecon Engineering Services, Inc., Milford, MA, USA; Steven Xu, Kinectrics, Inc., Toronto, ON, Canada; Paul Donavin, Retired, Eau Claire, MI, USA; George Antaki, Becht, Aiken, SC, USA; Mark Moenssens, Westinghouse, Madison, PA, USA

PVP2026-183150: ELEVATED TEMPERATURE EXPOSURE EFFECTS ON CARBON/EPOXY MATERIALS USED IN PIPELINE REHABILITATION (Presentation Only)
Vistasp Karbhari, Kruthika Kokku, University of Texas Arlington, Arlington, TX, USA; Anna Pridmore, Graham Bell, Structural Technologies, Columbia, MD, USA

SESSION 2.4J (DA-01-04)

Tuesday, July 21, 4:15 pm – 6:00 pm, Avila B
DESIGN AND ANALYSIS OF PRESSURE VESSELS, HEAT EXCHANGERS, AND COMPONENTS - 4
Developed by: Nathan Barkley, Refined Engineering, Tupelo, MS, USA; Clay Rodery, C&S Technology LLC, League City, TX, USA; Roy Darby, Chevron, Houston, TX, USA; Hao Jiang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; M. Kevin

Mandeville Jr., DNV, Katy, TX, USA; Qi Li, T.D. Williamson, Houston, TX, USA
Chair: Qi Li, T.D. Williamson, Houston, TX, USA
Co-Chair: Nathan Barkley, Refined Engineering, Tupelo, MS, USA

PVP2026-183204: CAUSE ANALYSIS OF CRACK IN THE CIRCUMFERENTIAL WELD ON THE INNER WALL OF HYDROGEN EVAPORATOR
Cong Deng, Jin Guo, Jiayue Liu, Guangdong Institute of Special Equipment Inspection and Research, Foshan City, Guangdong, China; Zhuangdun Lin, Yue Tan, Guangdong Institute of Special Equipment Inspection and Research, Foshan, China

PVP2026-183207: AN INVESTIGATION OF FAILURE ON THE CRACK IN HYDROGEN GAS TANK FLANGE
Cong Deng, Huasheng Hu, Xufeng Li, Lei Wang, Shengzi Lu, Weijian Luo, Guangdong Institute of Special Equipment Inspection and Research, Foshan City, Guangdong, China; Wufei Yuan, Guangdong Institute of Special Equipment Inspection and Research, Foshan, China

PVP2026-178598: ASSESSMENT OF CONTACT PRESSURE IN AN AXISYMMETRIC SHRINK-FIT/WELD ASSEMBLY IN A NUCLEAR REACTOR HEAD
Florent Cusenza, Quentin Bourget, Framatome, Saint-Marcel, France; Tudor Balan, Éric Becker, Arts et Metiers Institute of Technology, Metz, France; Thibault Demol, Framatome, Paris La Défense, France

PVP2026-175505: ANALYSIS AND CHARACTERIZATION OF AN ASYMMETRIC SHRINK-FIT ASSEMBLY IN A NUCLEAR REACTOR HEAD
Quentin Bourget, Florent Cusenza, Framatome, Saint-Marcel, France; Tudor Balan, Éric Becker, Arts et Metiers Institute of Technology, Metz, France; Thibault Demol, Framatome, Paris La Défense, France

SESSION 2.4K (CS-19-01)

Tuesday, July 21, 4:15 pm – 6:00 pm, Avila A
FRACTURE TOUGHNESS AND OTHER SMALL SPECIMEN MECHANICAL PROPERTIES - 1
Developed by: Mark Kirk, Phoenix Engineering Associates Inc., Claremont, NH, USA; Masato Yamamoto, Japan Atomic Energy Agency (JAEA), Tokai, Japan; William Server, Consultant, Black Mountain, NC, USA; Dongmei (Donna) Sun, Liburdi Group of Companies, Guelph, ON, Canada; J. Brian Hall, Westinghouse, Churchill, PA, USA
Chair: Mark Kirk, Phoenix Engineering Associates Inc., Claremont, NH, USA
Co-Chair: Masato Yamamoto, Japan Atomic Energy Agency (JAEA), Tokai, Japan

PVP2026-179745: AN ENHANCEMENT OF J–R FRACTURE TOUGHNESS TESTS FOR SMALL BEND SPECIMENS
Bong-Sang Lee, Min-Chul Kim, Jong-Min Kim, KAERI, Daejeon, Republic of Korea

PVP2026-178032: INFLUENCE OF COMPACT TENSION SPECIMEN GEOMETRY DESIGN ON ASTM E1820 FRACTURE TOUGHNESS TESTING
Shaojie Chen, Amrita Bag, Interpro Pipe and Steel, Rm Of Sherwood, SK, Canada; Joshua James, Edison Welding Institute, Columbus, OH, USA; Muhammad Rashid, EVRAZ N.A., Rm Of Sherwood, SK, Canada; Muhammad Arafin, Orion Steel, Rm Of Sherwood, SK, Canada

PVP2026-179741: PROJECT FRACTESUS - RESULTS AND DETAILED ANALYSIS OF FRACTURE TOUGHNESS ROUND ROBIN ON A NUCLEAR REACTOR PRESSURE VESSEL WELD MATERIAL – ANP-5
Florian Obermeier, Framatome, Erlangen, Bavaria, Germany; Giovanni Bonny, SCK CEN, Mol, Belgium; Sergio Cicero González, University of Cantabria, Santander, Spain

SESSION 2.4L (CS-07-04)

Tuesday, July 21, 4:15 pm – 6:00 pm, El Capitan A
RECENT DEVELOPMENTS IN ASME CODES AND STANDARDS - 4 (WITH CS-08)
Developed by: Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA; Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Mark Messner, Argonne National Laboratory, Plainfield, IL, USA
Chair: Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA
Co-Chair: Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA

PVP2026-180249: TECHNICAL BASIS FOR CODE CASE OF ALTERNATIVE DESIGN FATIGUE CURVES USING TENSILE STRENGTH AS A VARIABLE
Seiji Asada, Mitsubishi Heavy Industries, Ltd., Kobe, Japan; Andrew Morley, Rolls-Royce, Derby, United Kingdom; Chris Currie, Rolls-Royce, Derby, Derbyshire, United Kingdom

PVP2026-179681: FATIGUE CRACK GROWTH BEHAVIOR AT LOW STRESS INTENSITY FACTOR RANGE FOR REACTOR PRESSURE VESSEL STEEL IN WATER ENVIRONMENT FOR THE ASME CODE SECTION XI
Yoshihito Yamaguchi, Japan Atomic Energy Agency (JAEA), Tokai-Mura, Japan; Kunio Hasegawa, Japan Atomic Energy Agency (JAEA), Tokai, Japan

PVP2026-177128: FUNDAMENTAL APPROACH FOR EVALUATING ALLOWABLE FLAW SIZES AND LEAK-BEFORE-BREAK CONDITION BASED ON THE ASME CODE SECTION XI PROCEDURE USING FLAT PLATES SUBJECTED TO TENSILE LOADING
Martin Negyesi, Technical University of Ostrava, Ostrava, Czech Republic; Kunio Hasegawa, Japan Atomic Energy Agency (JAEA), Tokai, Japan

PVP2026-176221: FATIGUE CRACK GROWTH RATE THRESHOLDS OF REACTOR PRESSURE VESSEL STEEL IN WATER ENVIRONMENT FOR THE ASME CODE SECTION XI
Yoosung Ha, Japan Atomic Energy Agency (JAEA), Naka-Gun, Japan; Yoshihito Yamaguchi, Japan Atomic Energy Agency (JAEA), Tokai-Mura, Japan; Kunio Hasegawa, Japan Atomic Energy Agency (JAEA), Tokai, Japan; Martin Negyesi, Technical University of Ostrava, Ostrava, Czech Republic; Kevin Fuhr, Dominion Engineering, Inc., Reston, VA, USA

SESSION 2.4M (HT-05-04)

Tuesday, July 21, 4:15 pm – 6:00 pm, El Capitan B
PANEL SESSION: HIP WRAP UP
Developed by: Giuseppe Macoretta, University of Pisa, Pisa, Italy; Daniel Peters, Atlas Consulting LLC, Leonardtown, MD, USA
Chair: Victor Samarov, SynerTech PM, Inc., Garden Grove, CA, USA
Co-Chair: Daniel Peters, Atlas Consulting LLC, Leonardtown, MD, USA
Panelists: Jane Lagoy - Bodycote
Tomas Berglund - MTC Powder Solutions
Mike Conaway - Isostatic Forging International
Ron Boninger - Clean Energy Supplier Alliance (CESA)
Yan Liu - Simtec Soft Sweden AB
Cliff Orcutt - American Isostatic Press, Inc.
Johannes Gårdstam, Quintus Technologies AB

SESSION 2.4N (DA-03-01)

Tuesday, July 21, 4:15 pm – 6:00 pm, Malibu
FATIGUE - 1/ENVIRONMENTAL FATIGUE ASSESSMENT METHODS & TEMPERATURE EFFECTS (WITH CS-17)
Co-Sponsored by the Design & Analysis and Codes & Standards Technical Committees
Developed by: Shunji Kataoka, JGC Corporation, Yokohama, Japan; M. Kevin Mandeville Jr., DNV, Katy, TX, USA; Andrew Owens, TerraPower LLC, Round Rock, TX, USA; Premkumar Chinnaraj, Wood PLC, Houston, TX, USA; Mingxin Zhao, Enterprise Products, Houston, TX, USA
Chair: Mingxin Zhao, Enterprise Products, Houston, TX, USA
Co-Chair: Andrew Owens, TerraPower LLC, Round Rock, TX, USA

PVP2026-179205: APPROPRIATE TEMPERATURE INPUT FOR SIMPLIFIED CALCULATION OF ENVIRONMENTAL FATIGUE PENALTY FACTORS IN METAL COMPONENTS

Andrew Koenig, Pennsylvania State University, Gibsonia, PA, USA; Andrew Heffner, Mark A. Gray, Westinghouse, Cranberry Township, PA, USA; Aman Haque, Pennsylvania State University, State College, PA, USA

PVP2026-179756: NUMERICAL EVALUATION OF THE INFLUENCE OF TEMPERATURE ON THE STRAIN CONTROL CORRECTION FACTOR FOR FATIGUE TESTING IN A VVER ENVIRONMENT
Jiri Cerny, ÚJV Řež, a. s., Husinec, Středočeský Kraj, Czech Republic; Petr Gál, ÚJV Řež, a. s., Řež, Czech Republic

PVP2026-180007: ASSESSMENT METHOD TO ACCOUNT FOR ENVIRONMENTAL FATIGUE CRACK GROWTH BEHAVIOUR OF AUSTENITIC STAINLESS STEEL UNDER COMPLEX PROTOTYPIC CONDITIONS INCLUDING VARIATION OF TEMPERATURE: THE "WEIGHTED TEMPERATURE AND K-RATE" (WTKR) METHOD
Jonathan Mann, Felicity Pickering, Keith Rigby, Amentum, Warrington, Cheshire, United Kingdom; Chris Currie, Rolls-Royce, Derby, Derbyshire, United Kingdom; Andrew Morley, Rolls-Royce, Derby, United Kingdom

PVP2026-183030: IMPACT OF AIR ENVIRONMENT ON LOW CYCLE FATIGUE BEHAVIOR OF ALLOY690TT
Jonathan Quibel, French Authority for Nuclear Safety and Radiation Protection (ASNR), Saint-Paul-Lez-Durance, France; Kushal Gowda Jayaram, Joseph Huret, French Authority for Nuclear Safety and Radiation Protection (ASNR), St Paul Lez Durance, France; Walter-John Chitty, Institut de Radioprotection et de Sûreté Nucléaire (IRSN), Lyon, Rhône, France; Gilbert Hénaff, Institut Pprime, Chasseneuil-du-Poitou, France

SESSION 2.4O (AE-01-01)

Tuesday, July 21, 4:15 pm – 6:00 pm, Santa Monica
HYDROGEN PIPELINES - 1

Developed by: Joseph Ronevich, Sandia National Laboratories, Livermore, CA, USA
Chair: Milan Agnani, GTI Energy, Chicago, IL, USA
Co-Chair: Janne Pakarinen, VTT Technical Research Centre of Finland Ltd., Espoo, Finland

PVP2026-180030: EFFECT OF MICROSTRUCTURE ON CRACK INITIATION BEHAVIOR OF LINEPIPE STEEL UNDER GASEOUS HYDROGEN ENVIRONMENT
Yoshihiro Nishihara, JFE Steel Corporation, Kawasaki, Japan; Daichi Izumi, JFE Steel Corporation, Fukuyama, Japan; Nobuyuki Ishikawa, JFE Steel Corporation, Chiyoda-ku, Japan; Xin Pang, Su Xu, CanmetMATERIALS, Hamilton, ON, Canada

PVP2026-176583: MICROSTRUCTURAL EFFECTS ON RESISTANCE TO H-ASSISTED FRACTURE OF CONTROL ROLLED AND ACCELERATED COOLED X70 INDUSTRIAL PLATES
Andrew Leboeuf, Leslie Townsend, Santi Gopal Samanta, Lawrence Cho, Kip Findley, Colorado School of Mines, Golden, CO, USA; Joseph Ronevich, Chris San Marchi, Michelle Kent, Sandia National Laboratories, Livermore, CA, USA

PVP2026-183052: MECHANISTIC INSIGHTS INTO THE INHIBITORY EFFECTS OF OXYGEN AND CARBON MONOXIDE ON HYDROGEN-ASSISTED FATIGUE IN API X65 STEELS VIA ADVANCED MICROSTRUCTURAL CHARACTERIZATION
Hyun Jo Jun, ExxonMobil Technology & Engineering Company, Houston, TX, USA; Thirumalai Neeraj, Ashwini Chandra, Hyun Woo Jin, ExxonMobil Technology & Engineering Company, Annandale, NJ, USA

PVP2026-175316: CORRELATION BETWEEN MICROSTRUCTURAL CHARACTERISTICS AND HIC SENSITIVITY IN Q&T TREATED STEELS FOR HYDROGEN PIPELINE APPLICATION (Presentation Only)
Minyoung Song, Donghyun Yoon, Hyeongsub Kim, Hohyeong Lee, Seongho Hong, Seunghwan Chon, Hyundai Steel, Dangjin-si, Republic of Korea

SESSION 2.4P (TW-01-08)

Tuesday, July 21, 4:15 pm – 6:00 pm, Pacific A
TECHNICAL TUTORIAL: FRACTURE MECHANICS APPLICATIONS FOR PIPING - PART 2

Chair: Gery M. Wilkowski, Engineering Mechanics Corporation of Columbus, Columbus, OH, USA
Co-Chair: Andrew Duncan, Savannah River National Laboratory, Aiken, SC, USA

SESSION 2.4Q (TE-01-08)

Tuesday, July 21, 4:15 pm – 6:00 pm, Pacific/California Foyers
TECHNOLOGY EXHIBITS - 8

Block 3.1: Wednesday, July 22, 2026 (8:00 am – 9:45 am)

SESSION 3.1A (HT-07-01)

Wednesday, July 22, 8:00 am – 9:45 am, Pacific B

DESIGN AND ANALYSIS OF HIGH PRESSURE HYDROGEN EQUIPMENT

Developed by: Sean Berg, Rimkus, Mooresville, NC, USA; Sreelatha Kilambi, T.D. Williamson, Tulsa, OK, USA; Mohamadreza Nourani, Elite Professional Engineering, Burnaby, BC, Canada
Chair: Mohamadreza Nourani, Elite Professional Engineering, Burnaby, BC, Canada
Co-Chair: Megan Tribble, Sandia National Laboratories, Albuquerque, NM, USA

PVP2026-176922: FATIGUE ANALYSIS OF A HYDROGEN PRESSURE VESSEL WITH DESIGN PRESSURE OF 1034 BAR USING ASME BPVC VIII-3 KD-10 AND COMPARING WITH THE RESULTS OF VIII-3 KD-322 USING DEGRADED S-N CURVES
Mohamadreza Nourani, Elite Professional Engineering, Burnaby, BC, Canada

PVP2026-179996: MATERIAL INTELLIGENCE AND FATIGUE LIFE PREDICTION FOR HIGH-PRESSURE HYDROGEN STORAGE VESSELS
Sunil Acharya, Chao Li, Linqi Zhuang, Ansys, Inc., Canonsburg, PA, USA

PVP2026-175553: RELIABILITY AND SAFETY ASSESSMENT OF HIGH-PRESSURE HYDROGEN COMPRESSION SYSTEM
Anirudh Chunduru, Independent Researcher, Aubrey, TX, USA

PVP2026-183405: NANOVOID GENERATION IN EPOXY RESINS BY EXPOSURE TO HIGH-PRESSURE HYDROGEN (Presentation Only)
Tatsuru Nishikawa, Kyushu University, Fukuoka, Japan; Takashi Kuriyama, Hydrogenius/Kyushu University, Fukuoka-Shi, Japan; Shin Nishimura, Hydrogenius/Kyushu University, Fukuoka, Japan

SESSION 3.1B (DA-10-02)

Wednesday, July 22, 8:00 am – 9:45 am, California A

PANEL SESSION: BOLTED JOINT INTERNATIONAL LIAISON SESSION - 1

Developed by: Gysbert van Zyl, Integrity Engineering Solutions, Dunsborough, Australia; Warren Brown, Integrity Engineering Solutions, Dunsborough, Australia; Clay Rodery, C&S Technology LLC, League City, TX, USA; Nathan Barkley, Refined Engineering, Tupelo, MS, USA; Abdelgader Abdelgalil, SABIC, Jubail, Saudi Arabia; Antonio Seijas, Phillips 66 Company, Houston, TX, USA; Edward Derubeis, null; Ian-Ty Cheong, Shell, Brisbane City, Australia
Chair: Antonio Seijas, Phillips 66 Company, Houston, TX, USA
Co-Chair: Roberto Robles, Integrity Engineering Solutions, Dunsborough, Australia
Panelists: Raaid Alam, Integrity Engineering Solutions, Dunsborough, Australia
Carlos Girão, Teadit, Itatiba, Brazil
Hubert Lejeune, CETIM, Nantes, France
Toshiyuki Sawa, Hiroshima University, Koto-City, Japan

SESSION 3.1C (CS-28-01)

Wednesday, July 22, 8:00 am – 9:45 am, California B

2ND AI SYMPOSIUM: APPLICATIONS OF AI IN CODES AND STANDARDS (WITH CS-10 & FSI-02)

Co-Sponsored by the Codes & Standards and Fluid-Structure Interaction Technical Committees

Developed by: Jürgen Rudolph, Framatome, Erlangen, Bavaria, Germany; Pierre Dulieu, Tractebel Engie, Brussels, Belgium; Valéry Lacroix, Tractebel Engie, Brussels, Belgium
Chair: David Rudland, Rudland Consulting, Frederick, MD, USA
Co-Chair: TBD

PVP2026-183512: REVIEW OF ADVANCES IN ARTIFICIAL INTELLIGENCE APPLICATIONS FOR PIPELINE FLOW SIMULATION
Zhou Fang, Beijing University of Chemical Technology, Beijing, China; Qianqian Liu, Dongsheng Zhang, Beijing University of Chemical Technology, East Campus, Beijing University of Chemical Technology, China; Jinkui Feng, Jin Deng, China Special Equipment Inspection & Research Institute, Beijing, China

PVP2026-183518: ARTIFICIAL INTELLIGENCE-DRIVEN SMART OPERATION AND MAINTENANCE IN THE CHEMICAL INDUSTRY: A REVIEW OF GLOBAL ADVANCES
Zhou Fang, Beijing University of Chemical Technology, Beijing, China; Huixu Wang, Beijing University of Chemical Technology, East Campus, Beijing University of Chemical Technology, China; Jin Deng, Jinkui Feng, China Special Equipment Inspection & Research Institute, Beijing, China

PVP2026-177338: A UNIFIED FRAMEWORK FOR MANAGING ACOUSTIC INDUCED VIBRATION (AIV) FATIGUE: FROM PREDICTIVE DESIGN TO OPERATIONAL INTELLIGENCE
Thanh Loi Nguyen, Duc Binh Vo, Nhu Hoa Nguyen, Vinh Phat Luu, David Knezevic, Akselos S.A., Lausanne, Vaud, Switzerland; Piyush Prasad, Jun Yang Lee, Qatar Shell GTL Limited, Doha, Qatar

SESSION 3.1D (CS-15-01)

Wednesday, July 22, 8:00 am – 9:45 am, Sunset

MECHANICAL PROPERTIES OF NUCLEAR GRAPHITE AND THEIR IMPLEMENTATION IN CODES AND STANDARDS - 1

Developed by: Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA; David Rudland, Rudland Consulting, Frederick, MD, USA; Steven Xu, Kinectrics, Inc., Toronto, ON, Canada; Sureshkumar Kalyanam, Batelle, Columbus, OH, USA; Joseph Bass, US Nuclear Regulatory Commission, Rockville, MD, USA
Chair: Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA
Co-Chair: Graeme Horne, Frazer-Nash Consultancy, Bristol, United Kingdom

PVP2026-180260: METHODOLOGIES FOR THE ASSESSMENT OF HERMES 1.0'S TOLERANCE TO THERMAL OXIDATION OF ET-10 GRAPHITE
James McGladdery, Quan Zhou, Lorne Cohen, Joseph Slota, Samuel Richesson, Jae Keun Choi, Gabriel Meric, Kairos Power LLC, Alameda, CA, USA

PVP2026-183276: CHALLENGES IN UNIAXIAL TENSILE TESTING OF FINE GRAIN GRAPHITE UNDER ASTM C749
Adrianna Lupercio, Arvin Cunningham, Dylan Hauge, Kyler Egan, William Hoffman, William Windes, Idaho National Laboratory, Idaho Falls, ID, USA

PVP2026-175340: SPECIMEN THICKNESS EFFECT IN STANDARD DISC COMPRESSION TEST ON NUCLEAR GRAPHITES (Presentation Only)
Lianshan Lin, Wenqi Li, Cristian Contescu, Jose Arregui-Mena, Nidia Gallego, Oak Ridge National Laboratory, Oak Ridge, TN, USA; James Spicer, Johns Hopkins University, Baltimore, MD, USA

PVP2026-179927: ASSESSMENT OF ASME SECTION III, DIVISION 5 RULES FOR CERAMIC MATRIX COMPOSITES IN HIGH-TEMPERATURE NUCLEAR REACTOR APPLICATIONS
Bipul Barua, Argonne National Laboratory, Lemont, IL, USA; Mark Messner, Argonne National Laboratory, Plainfield, IL, USA

SESSION 3.1E (SE-07-02)

Wednesday, July 22, 8:00 am – 9:45 am, Salinas

THE MICHAEL E. NITZEL MEMORIAL SYMPOSIUM ON SEISMIC ENGINEERING: SEISMIC EVALUATION OF SYSTEMS, STRUCTURES AND COMPONENTS - 2

Developed by: Satoru Kai, IHI Corporation, Yokohama, Japan; Jinsuo Nie, US Nuclear Regulatory Commission, Washington, DC, USA
Chair: Satoru Kai, IHI Corporation, Yokohama, Japan
Co-Chair: Jinsuo Nie, US Nuclear Regulatory Commission, Washington, DC, USA

PVP2026-176887: COMPARATIVE EVALUATION OF STATIC EQUIVALENT AND LINEAR DYNAMIC SEISMIC ANALYSIS METHODS FOR INDUSTRIAL PIPING SYSTEMS

Sameer Abdul Rehman, Sohaib Ejaz Randhawa, ATP Technologies, Cambridge, ON, Canada

PVP2026-175022: QUANTIFICATION OF RESPONSE REDUCTION EFFECTS CAUSED BY EQUIPMENT-STRUCTURE INTERACTION
Takahito Kumagai, Hitachi, Ltd., Hitachi-Shi, Japan; Naotomo Maruyama, Hitachi GE Vernova Nuclear Energy, Ltd., Hitachi, Japan; Nobuyoshi Goshima, Kyosuke Kamito, Mitsubishi Heavy Industries, Ltd., Kobe, Japan; Shuichiro Hirota, Toshiba, Yokohama-Shi, Japan; Masanori Sato, The Japan Atomic Power Company, Taito-ku, Japan

PVP2026-174788: CASE STUDY ON THE IMPACT OF A COHERENCY FUNCTION ON THE SEISMIC FRAGILITY OF EQUIPMENT IN NUCLEAR POWER PLANT IN SOUTH KOREA
Jungkyun Kim, Korea Hydro & Nuclear Power Co., Ltd. (KHNP), Gyengju, Republic of Korea

PVP2026-178380: EVALUATION OF HYDRODYNAMIC PRESSURE DURING SLOSHING IN A RECTANGULAR TANK: PROPOSAL OF A METHOD FOCUSED ON PRESSURE DISTRIBUTION ABOVE THE INITIAL WATER SURFACE BASED ON COMPARISON BETWEEN EXPERIMENTAL AND NUMERICAL RESULTS
Yusuke Minakawa, Hitachi GE Vernova Nuclear Energy, Ltd., Hitachi-Shi, Japan; Daichi Karato, Tadashi Iijima, Kinji Nakano, Hitachi GE Vernova Nuclear Energy, Ltd., Hitachi, Japan

SESSION 3.1G (DA-02-04)

Wednesday, July 22, 8:00 am – 9:45 am, Carmel
DESIGN AND ANALYSIS OF PIPING, PIPELINES, AND COMPONENTS - 4

Developed by: Chakrapani Basavaraju, US Nuclear Regulatory Commission, Rockville, MD, USA; Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada; Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA; Bing Li, Kinectrics, Inc., Toronto, ON, Canada; Clifton Vining, Worley, Houston, TX, USA
Chair: Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada
Co-Chair: Bing Li, Kinectrics, Inc., Toronto, ON, Canada

PVP2026-180034: STUDY ON THE SUSTAINED STRESS INDICES OF TRUNNIONS
Tomohiro Ueno, Shunji Kataoka, Takuro Honda, JGC Corporation, Yokohama, Japan; Hiroyuki Kosasayama, JGC Corporation, Nishi-ku, Japan

PVP2026-178394: EFFECT OF TEE PIPE FITTING GEOMETRY AND MODELING APPROACH ON STRESS EVALUATION
Fuminori Iwamatsu, Hitachi, Ltd., Ibaraki, Japan; Toshikazu Oshitani, Akihiko Hirano, Hitachi GE Vernova Nuclear Energy, Ltd., Hitachi, Japan

PVP2026-179964: COMPARATIVE FATIGUE ASSESSMENT OF A FITTING WELDED ON A PIPE PER THE 2025 EDITION OF ASME BPVC SECTION VIII, DIVISION 2
Qi Li, T.D. Williamson, Houston, TX, USA; Sreelatha Kilambi, Kolton Landreth, T.D. Williamson, Tulsa, OK, USA

PVP2026-175894: FINITE ELEMENT ANALYSIS AND HYDROTEST VALIDATION OF UNIBOLT ADAPTER FITTINGS FOR ASME SECTION VIII DIVISION 2 COMPLIANCE
Philip Borowoy, Eddie Sumara, Paul Miao, Lanmark Engineering, Calgary, AB, Canada

SESSION 3.1H (OAC-06-03)

Wednesday, July 22, 8:00 am – 9:45 am, San Simeon B
OPERATION AND MAINTENANCE OF PLANT EQUIPMENT - 3

Developed by: Ayman Cheta, Shell, Houston, TX, USA; Yasumasa Shoji, YS Corporation LLC, Mushashino, Japan; Junya Takahashi, Sumitomo Chemical, Niihama, Japan; Jorge Penso, Shell, Houston, TX, USA; Alton Reich, Streamline Automation, LLC, Huntsville, AL, USA
Chair: Junya Takahashi, Sumitomo Chemical, Niihama, Japan
Co-Chair: Ayman Cheta, Shell, Houston, TX, USA

PVP2026-183113: CONTINUOUS MONITORING OF FURNACE TUBE METAL TEMPERATURES USING INFRARED IMAGING TECHNOLOGY
Natalia Chacon, Gregory Kehrier, Renae Baker, Shell, Deer Park, TX, USA; Mitul Dalal, Penso Jorge, Shell, Houston, TX, USA; Rajeev Limaye, Linde Engineering Americas, Woodlands, TX, USA

PVP2026-179979: EXPERIENCES USING FIELD METALLOGRAPHY REPLICATIONS ASSESSING FURNACES AND BOILERS TUBES
Jorge Penso, Mitul Dalal, Jess Hassell, Shell, Houston, TX, USA

PVP2026-179958: EXPERIENCES AND CHALLENGES WITH QUENCH CHAMBERS IN OLEFIN FURNACES
Mitul Dalal, Jorge Penso, Shell, Houston, TX, USA; Jean Fuenmayor, Shell, Norco, LA, USA

PVP2026-175616: CORROSION ALLOWANCE FOR VALVES, POTENTIAL IMPLICATIONS AND MITIGATIONS
Ayman Cheta, Shell, Houston, TX, USA

SESSION 3.1J (DA-16-01)

Wednesday, July 22, 8:00 am – 9:45 am, Avila B
VESSEL DESIGN PHILOSOPHY - 1 (WITH DA-19)

Developed by: Trevor Seipp, Becht, Okotoks, AB, Canada; Roy Darby, Chevron, Houston, TX, USA; Clay Rodery, C&S Technology LLC, League City, TX, USA; Sean Peters, DeepMechanix, Santa Monica, CA, USA
Chair: Trevor Seipp, Becht, Okotoks, AB, Canada
Co-Chair: Forrest Gu, Becht, Calgary, AB, Canada

PVP2026-175257: NEW DESIGN AND CONSTRUCTION CONCEPTS FOR LARGE PRESSURE VESSELS WITH HIGH INTERNAL PRESSURE
Maan Jawad, Global Engineering & Technology, LLC, Bothell, WA, USA

PVP2026-178209: SNOW LOADS ON PRESSURE VESSELS
Pietro (Peter) Ranieri, May Diaz-Barrie, Catalin Gunea, Fluor, Calgary, AB, Canada

PVP2026-179561: MECHANICAL ENGINEERING CAPSTONE: COURSE STRUCTURE, TEACHING PRACTICES, AND PRESSURE VESSEL AND PIPING-ORIENTED PROJECT PORTFOLIO ANALYSIS
Mahima Dua, Pierre Mertiny, Kajsa Duke, University of Alberta, Edmonton, AB, Canada

PVP2026-184006: STRUCTURAL RETROFIT OF THE EXHAUST SILENCER AND STACK SYSTEM TO RESIST WIND VORTEX SHEDDING VIBRATION FORCES (Presentation Only)
Agron Gjinolli, Abd Elmajeed Elkhider, Jason Dorgan, Durr Universal, Inc., Stoughton, WI, USA

SESSION 3.1K (CS-19-02)

Wednesday, July 22, 8:00 am – 9:45 am, Avila A
FRACTURE TOUGHNESS AND OTHER SMALL SPECIMEN MECHANICAL PROPERTIES – 2 (WITH MF-11)
Co-Sponsored by the Codes & Standards and Materials & Fabrication Technical Committees

Developed by: Mark Kirk, Phoenix Engineering Associates Inc., Claremont, NH, USA; Masato Yamamoto, Japan Atomic Energy Agency (JAEA), Tokai, Japan; William Server, Consultant, Black Mountain, NC, USA; Dongmei (Donna) Sun, Liburdi Group of Companies, Guelph, ON, Canada; J. Brian Hall, Westinghouse, Churchill, PA, USA
Chair: Marta Cerrano Garcia, CIEMAT, Madrid, Spain
Co-Chair: Mark Kirk, Phoenix Engineering Associates Inc., Claremont, NH, USA

PVP2026-179924: STANDARD REFERENCE MATERIAL CHARPY TESTING FROM HIGH FLUENCE SURVEILLANCE CAPSULE
Mikhail Sokolov, Anthony Guajardo, Oak Ridge National Laboratory, Oak Ridge, TN, USA

PVP2026-182543: IMPROVING THE ASSESSMENT OF DYNAMIC FRACTURE TOUGHNESS WITH IMPACT CIRCUMFERENTIAL NOTCHED TENSILE TESTING (Presentation Only)

Ryan Kraus, Josh Mueller, Michigan Technological University, Houghton, MI, USA; Joshem Gibson, Los Alamos National Laboratory, Los Alamos, NM, USA

PVP2026-177498: FORCE-CONTROLLED FATIGUE OF MINIATURE SPECIMENS: AN INTERLABORATORY STUDY FOR ADDITIVE MANUFACTURING AND LIFE ASSESSMENT APPLICATIONS (Presentation Only)
Jan Dzugan, Matous Uhlik, Libor Kraus, COMTES FHT, Dobrany, Czech Republic

SESSION 3.1L (CS-11-01)

Wednesday, July 22, 8:00 am – 9:45 am, El Capitan A
RECENT DEVELOPMENTS IN EUROPEAN CODES AND STANDARDS - 1

Developed by: Peter James, Amentum, Warrington, Cheshire, United Kingdom; Valéry Lacroix, Tractebel Engie, Brussels, Belgium; John Sharples, Amentum, Warrington, Cheshire, United Kingdom; Claude Faidy, CF Integrity Engineering, Tassin-la-Demi-Lune, France
Chair: Valéry Lacroix, Tractebel Engie, Brussels, Belgium
Co-Chair: Harry Coules, Amentum, Bristol, United Kingdom

PVP2026-177725: FRENCH RCC-M CODE RULE IN THE PROBATIONARY PHASE FOR TUBESHEET DESIGN: PRESENTATION OF THE PRIMARY STRESS MODELING AND ANALYSIS
Pascal Duranton, Marie Bernion, Framatome, Courbevoie, France; Tony Da Silva, EDF, Lyon, Rhône, France; François Billon, ONET Technologies, Marseille, France; Erwan Jourden, ONET Technologies, Brest, France; Mathieu Moreaux, Westinghouse, Nivelles, Belgium; Ludovic Jian, Naval Group, Bouguenais, France; Benoît Serre, Framatome, Saint-Marcel, France

PVP2026-182419: CREEP AND THERMAL EXPANSION BEHAVIOR OF THERMOPLASTIC FLANGES — EXPERIMENTAL BASIS FOR EN 1591-1 ORIENTED DESIGN
Finn Bartmann, University of Applied Sciences Münster, Steinfurt, Germany; Elmar Moritzer, University Paderborn, Paderborn, Germany; Alexander Riedl, Miriam Laubrock, Hamza Al Nader, FH Münster, Steinfurt, Germany

PVP2026-176854: DESIGN OF JACKETED PRESSURE VESSELS: INTRODUCTION TO AN INNOVATIVE METHODOLOGY BASED ON FORMULAE FOR STUDDED JACKETS
Philippe Rohart, CETIM, Senlis, France

SESSION 3.1M (AE-06-01)

Wednesday, July 22, 8:00 am – 9:45 am, El Capitan B
NON-METALLICS FOR HYDROGEN SERVICE – 1 (WITH CS-13)

Co-Sponsored by the Advanced Energy and Codes & Standards Technical Committees
Developed by: Nalini Menon, Sandia National Laboratories, Livermore, CA, USA; Kevin Simmons, Pacific Northwest National Laboratory, Richland, WA, USA
Chair: Kevin Simmons, Pacific Northwest National Laboratory, Richland, WA, USA
Co-Chair: Nalini Menon, Sandia National Laboratories, Livermore, CA, USA

PVP2026-183343: EVALUATION OF EXTRUSION FAILURE MODES OF ELASTOMERIC O-RINGS IN CYCLING HYDROGEN ENVIRONMENTS
Nalini C. Menon, April Nissen, Bernice Mills, Keri McArthur, James McNair, Brendan Davis, Sandia National Laboratories, Livermore, CA, USA

PVP2026-176563: INVESTIGATION OF THE EFFECT OF GASEOUS HYDROGEN EXPOSURE ON MATERIAL PROPERTIES OF HIGH-DENSITY POLYETHYLENE WITH VARIOUS COMONOMERS (Presentation Only)
Sang Min Lee, Byeong-Lyul Choi, Ilhyun Kim, Byoung-Ho Choi, Korea University, Seoul, Republic of Korea

PVP2026-179962: EFFECTS OF HYDROGEN AND NATURAL GAS BLENDS ON THE MECHANICAL PROPERTIES OF POLYETHYLENE RESINS (Presentation Only)
Jose Martin del Campo, Scott Graham, Javen Weston, Eduardo Pereyra, Cem Sarica, Michael Keller, William Lepage, The University of Tulsa, Tulsa, OK, USA

PVP2026-183229: COMPARATIVE ANALYSIS OF STANDARDS AND SPECIFICATIONS FOR NON-METALLIC HYDROGEN PIPELINE
Chongyu Yang, Zhongzhen Wang, Ping Xu, Bingjie Fu, Jianfeng Shi, Jinyang Zheng, Zhejiang University, Hangzhou, China; Yincong Liu, China Energy Engineering Group Zhejiang Electric Power Design Institute Co., Ltd., Hangzhou, China

SESSION 3.1N (DA-03-02)

Wednesday, July 22, 8:00 am – 9:45 am, Malibu
FATIGUE - 2/FATIGUE LIFE PREDICTION & FAILURE ANALYSIS (WITH DA-09)

Developed by: Shunji Kataoka, JGC Corporation, Yokohama, Japan; M. Kevin Mandeville Jr., DNV, Katy, TX, USA; Andrew Owens, TerraPower LLC, Round Rock, TX, USA; Premkumar Chinnaraj, Wood PLC, Houston, TX, USA; Mingxin Zhao, Enterprise Products, Houston, TX, USA
Chair: Andrew Owens, TerraPower LLC, Round Rock, TX, USA
Co-Chair: Mingxin Zhao, Enterprise Products, Houston, TX, USA

PVP2026-175989: FATIGUE LIFE EVALUATION OF ADDITIVE MANUFACTURED TI-6AL-4V USING EQUIVALENT STRUCTURAL STRESS METHOD
Masahiro Takanashi, Yoshihiro Otani, IHI Corporation, Yokohama, Japan

PVP2026-183202: STUDY ON THE FATIGUE CHARACTERISTICS AND RESIDUAL LIFE PREDICTION METHOD OF PIPELINES WITH COMBINED SCRATCH-DENT DEFECTS
Junjie Zhang, Yi Shuai, Mengchao Hu, Jian Shuai, China University of Petroleum, Beijing, China; Wei Gao, China University of Petroleum, Changping, Beijing, China

PVP2026-179642: FAILURE ANALYSIS OF THE ENGINE EXHAUST SILENCER DUE TO EXCESSIVE VIBRATIONS (Presentation Only)
Agron Gjinolli, Durr Universal, Inc., Stoughton, WI, USA

PVP2026-178899: STRAIN REDUCTION IN A 2 MW MERCURY SPALLATION TARGET USING GAS FROM BUBBLER GENERATORS AND A NEW GAS INJECTOR
Hao Jiang, Drew Winder, Kevin Johns, Oak Ridge National Laboratory, Oak Ridge, TN, USA

SESSION 3.1O (AE-01-02)

Wednesday, July 22, 8:00 am – 9:45 am, Santa Monica
HYDROGEN PIPELINES - 2

Developed by: Joseph Ronevich, Sandia National Laboratories, Livermore, CA, USA
Chair: Mark Cuglietta, C-FER Technologies, Edmonton, AB, Canada
Co-Chair: Joseph Ronevich, Sandia National Laboratories, Livermore, CA, USA

PVP2026-179935: THE EPRG FULL SCALE FATIGUE CRACK GROWTH TEST OF A 300 HVN GIRTH WELD
Bostjan Bezensek, Shell, Aberdeen, United Kingdom; Otto Jan Huising, N.V. Nederlandse Gasunie, Groningen, Netherlands; Luca Bacchi, Snam Rete Gas, Milan, Italy; Paul Roovers, Fluxys, Brussels, Belgium; Luigi Di Vito, RINA Consulting – Centro Sviluppo Materiali, Rome, Italy

PVP2026-175644: FUNDAMENTAL STUDY ON HYDROGEN COMPATIBILITY OF STEELS USED FOR JAPAN'S TRUNK NATURAL GAS PIPELINES (Presentation Only)
Yukinori Yanase, Toshiyuki Sunaba, INPEX, Tokyo, Japan; Masanobu Kubota, Hisao Matsunaga, Kyushu University, Fukuoka, Japan

PVP2026-183054: EFFECT OF HYDROGEN IMPURITY ON FRACTURE BEHAVIOR OF API 5L X80 ERW LINEPIPE STEEL FOR DENSE PHASE CO2 TRANSPORT PIPELINE (Presentation Only)
Ashwini Chandra, ExxonMobil Technology & Engineering Company, Annandale, NJ, USA; Hyun Jo Jun, ExxonMobil Technology & Engineering Company, Houston, TX, USA; Ramgopal Thodla, DNV, Dublin, OH, USA; Greg Pioszak, David Baker, ExxonMobil Technology & Engineering Company, Spring, TX, USA

PVP2026-179570: BURST STRENGTH DETERMINATION OF CORRODED PIPELINES FOR TRANSPORTING HYDROGEN BLENDED NATURAL GAS
Xian-Kui Zhu, Savannah River National Laboratory, Aiken, SC, USA

SESSION 3.1Q (TW-01-09)

Wednesday, July 22, 8:00 am – 9:45 am, Pacific A
EPRI-ASME-AWS WORKSHOP: PERFORMANCE OF WELDS IN THE ENERGY SECTOR - PART 1
Chair: John Siefert, EPRI, Charlotte, NC, USA
Co-Chair: Jorge Penso, Shell, Houston, TX, USA

Block 3.2: Wednesday, July 22, 2026 (10:15 am – 12:00 pm)

SESSION 3.2A (AE-03-01)

Wednesday, July 22, 10:15 am – 12:00 pm, Pacific B
HYDROGEN FACILITIES AND PIPING – 1 (WITH MF-32)
Co-Sponsored by the Advanced Energy and Materials & Fabrication Technical Committees
Developed by: Bostjan Bezensek, Shell, Aberdeen, United Kingdom; TJ Prewitt, Structural Integrity Associates Inc., Columbus, OH, USA
Chair: Mihaela E. Cristea, Tenaris, Dalmine, Italy
Co-Chair: Bostjan Bezensek, Shell, Aberdeen, United Kingdom

PVP2026-176486: NEAR-THRESHOLD FATIGUE CRACK GROWTH OF NODULAR CAST IRON IN PRESSURIZED HYDROGEN (Presentation Only)
Valtteri Alander, Mari Åman, Tero Frondelius, University of Oulu, Oulu, Finland; Joona Vaara, Jarkko Laine, Wärtsilä Finland Oy, Vaasa, Finland; Hisao Matsunaga, Kyushu University, Fukuoka, Japan

PVP2026-183302: STATUS OF EVALUATIONS OF HYDROGEN EFFECT OF TOUGHNESS ON 1.25CR - 0.5MO AND C0.5MO REFINERY VESSEL STEELS WHEN CONDITIONAL AT HIGH TEMPERATURES AND TESTED AT LOWER TEMPERATURES
Ken Bagnoli, Fabian Orth, Engineering Mechanics Corporation of Columbus, Columbus, OH, USA; Gery Wilkowski, Engineering Mechanics Corporation of Columbus, Upper Arlington, OH, USA; Tim Munsterman, Becht, Texas City, TX, USA

PVP2026-178307: EXPLORATION OF HIGH-STRENGTH HYDROGEN-RESISTANT STEELS AND ELUCIDATION OF THEIR FRACTURE-CONTROLLING FACTORS (Presentation Only)
Hisao Matsunaga, Redarce Timothee, Suncheol Park, Tomonori Oda, Takashi Nakamura, Kyushu University, Fukuoka, Japan

PVP2026-174887: PIPELINE DECARBONIZATION THROUGH INNOVATIVE NANO COATING WITH LOW CARBON FOOTPRINT
Amr Gouda, Ain Shams University, Banha, Egypt; Noha Donia, Mostafa Khalil, Ain Shams University, Cairo, Egypt; Ahmed El-Gendy, The American University in Cairo, Cairo, Egypt

SESSION 3.2B (MF-17-01)

Wednesday, July 22, 10:15 am – 12:00 pm, California A
ADVANCED AND ADDITIVE MANUFACTURING AND MATERIAL TECHNOLOGIES - 1
Developed by: Paul Korinko, Savannah River National Laboratory, Aiken, SC, USA; Ana Reis, University of Porto, Porto, Portugal; Andrew Duncan, Savannah River National Laboratory, Aiken, SC, USA; Adam Cooper, Amentum, Warrington, Cheshire, United Kingdom; Sylvain Pillot, Le Creusot, Bourgogne-Franche-Comté, France; Catrin Mair-Davies, Imperial College London, London, United Kingdom; Arindam Chakraborty, Virtual Integrated Analytics Solutions (VIAS), San Jose, CA, USA; M. Kevin Mandeville Jr., DNV, Katy, TX, USA; Michael McMurtrey, Idaho National Laboratory, Idaho Falls, ID, USA; Steven Lawler, Frazer-Nash Consultancy, Burton-on-Trent, United Kingdom; Qin Ma, Walla Walla University, College Place, WA, USA
Chair: Paul Korinko, Savannah River National Laboratory, Aiken, SC, USA
Co-Chair: Ana Reis, University of Porto, Porto, Portugal

PVP2026-185426: BONDING PROCESSES AND MATERIAL STRENGTH OF DIFFUSION WELDED 316L AND 316H STAINLESS STEELS
Lukas Desorcy, Ian Jentz, Mark Anderson, University of Wisconsin Madison, Madison, WI, USA; James Stubbins, Mahmud Hasan Ovi, Tamim Hossain, Intisher-Al Tahmid Omi, University of Illinois Urbana-Champaign, Urbana, IL, USA; Nikki Harless, EPRI, Charlotte, NC, USA; Peng Wang, Todd Allen, University of Michigan, Ann Arbor, MI, USA

PVP2026-185422: RECOMMENDATIONS FOR MODIFICATIONS TO QW-185 DIFFUSION WELD QUALIFICATION FOR MATERIALS OPERATING AT ELEVATED TEMPERATURE
Ian Jentz, Lukas Desorcy, Mark Anderson, University of Wisconsin Madison, Madison, WI, USA; Todd Allen, University of Michigan, Ann Arbor, MI, USA

SESSION 3.2C (AI-01-02)

Wednesday, July 22, 10:15 am – 12:00 pm, California B
2ND AI SYMPOSIUM – PANEL SESSION: AI, CODES, STANDARDS & REGULATION: FROM DRAFTING TO COMPLIANCE
Chair: Joaquin E. Moran, Stantec, Hamilton, ON, Canada
Co-Chair: María Ortiz de Zúñiga López-Chicheri, Fusion for Energy, Barcelona, Spain
Moderator: Gianluca Quinci, Roma Tre University, Rome, Italy
Panelists: María Ortiz de Zúñiga López-Chicheri, Fusion for Energy, Barcelona, Spain
Daniel Peters, Atlas Consulting LLC, Leonardtown, MD, USA
Nawal Prinja, Prinja and Partners, Limited, Gatley, United Kingdom
Peter Sanders, Avail Infrastructure Solutions, Marietta, GA, USA
Fabrizio Paolacci, Roma Tre University, Rome, Italy
Djordje Srnic, Alberta Boiler Safety Association (ABSA), Edmonton, AB, Canada

SESSION 3.2D (MF-29-01)

Wednesday, July 22, 10:15 am – 12:00 pm, Sunset
MECHANICAL PROPERTIES OF NUCLEAR GRAPHITE AND COMPOSITES AND THEIR IMPLEMENTATION IN CODES AND STANDARDS - 1
Developed by: David Rudland, Rudland Consulting, Frederick, MD, USA; Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA; Joseph Bass, US Nuclear Regulatory Commission, Rockville, MD, USA; Graeme Horne, Frazer-Nash Consultancy, Bristol, United Kingdom; Steven Xu, Kinectrics, Inc., Toronto, ON, Canada; Sureshkumar Kalyanam, Batelle, Columbus, OH, USA
Chair: Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA
Co-Chair: Graeme Horne, Frazer-Nash Consultancy, Bristol, United Kingdom

PVP2026-176893: BENCHMARKING OF IRRADIATED GRAPHITE MATERIAL MODELS FOR GRAPHITE CORE COMPONENT DESIGN
Dhananjay Joshi, Florentius Johannes Van Zanten, Samuel Baylis, Thomas Ligon, X-energy, LLC, Rockville, MD, USA; Michael Saitta, MPR Associates, Inc., Alexandria, VA, USA; Amanda Young, Frazer-Nash Consultancy, Leatherhead, United Kingdom; Calum McInnes, Frazer-Nash Consultancy, Bristol, United Kingdom; Benjamin Spencer, Idaho National Laboratory, Idaho Falls, ID, USA

PVP2026-179917: STRUCTURAL INTEGRITY ASSESSMENTS OF NUCLEAR GRAPHITE: PREDICTING THE CORE STATE
Graeme Horne, Frazer-Nash Consultancy, Bristol, United Kingdom; Richard Gray, Amanda Young, Daniel Kent, Mark Joyce, Frazer-Nash Consultancy, Manchester, United Kingdom; Marcus Williamson, Frazer-Nash Consultancy, Leatherhead, United Kingdom

PVP2026-177973: CONSISTENT NOTATION FOR GRAPHITE GRAIN ORIENTATION

Abigail Peters, Danny McCray, Gwennaël Beirnaert, Michael Saitta, MPR Associates, Inc., Alexandria, VA, USA; Chong Chen, X-energy, LLC, Rockville, MD, USA

SESSION 3.2E (FSI-02-01)

Wednesday, July 22, 10:15 am – 12:00 pm, Salinas

FLOW-INDUCED VIBRATION - 1

Developed by: Marwan Hassan, University of Guelph, Guelph, ON, Canada; Atef Mohany, Ontario Tech University, Oshawa, ON, Canada; Salim El Bouzidi, Canadian Nuclear Laboratories, Chalk River, ON, Canada
Chair: Atef Mohany, Ontario Tech University, Oshawa, ON, Canada
Co-Chair: Akane Uemichi, Yamaguchi University, Yamaguchi, Japan

PVP2026-176694: MITIGATING FLOW-INDUCED VIBRATION OF DISCHARGE MANIFOLD EQUIPMENT WITH TUNED MASS DAMPERS: A PHYSICS-ML APPROACH
Shobeir Pirayeh Gar, Allan Zhong, Hadi Arabnejad, Halliburton, Carrollton, TX, USA; Brad Bull, Halliburton, Duncan, OK, USA

PVP2026-177433: ANALYSIS OF VIBRATION CAUSES FOR QUICK-START BOILER
Chengwen Wang, Dongsheng Yang, Xudong He, Xiaofeng Cai, Wuhuan Engineering Co., Ltd., Wuhan, China

PVP2026-176642: EFFECT OF BAFFLE PLATES ON ACOUSTIC RESONANCE EXCITED BY VORTEX SHEDDING IN A TUBE BUNDLE
Itsuro Hayashi, Masato Nishiguchi, Chiyoda Corporation, Yokohama, Japan; Hiromitsu Hamakawa, Oita University, Oita City, Japan

PVP2026-177266: ADAPTING ASME PTC 19.3 TW METHODOLOGY FOR INJECTION QUILL VIBRATION ANALYSIS
Avijit Ashesh, KBR, Noida, UP, India; Mrinmoy Ghosh Choudhury, KBR, Mumbai, India

SESSION 3.2F (OAC-02-01)

Wednesday, July 22, 10:15 am – 12:00 pm, Monterey

QUALIFICATION AND TESTING - 1 (WITH OAC-03)

Developed by: Ciska de Haan - de Wilde, NRG, Petten, Netherlands; Georges Bezdikian, Consultant, Le Vésinet, France; Keiko Chitose, OECD NEA, Paris, France
Chair: Keiko Chitose, OECD NEA, Paris, France
Co-Chair: Ciska de Haan - de Wilde, NRG, Petten, Netherlands

PVP2026-179972: NUCLEAR PRESSURE ACCESSORY DESIGN AND QUALIFICATION GAPS
Jonathon Jacobs, Flowserve, Inc., Raleigh, NC, USA

PVP2026-179854: EXPERIMENTAL AND COMPUTATIONAL STUDY OF WELD DROP-THROUGH HYDRAULIC EFFECTS IN MULTI-LAYER CONCENTRIC PIPES SERVICING CRYOGENIC LIQUID HYDROGEN
Elvis Dominguez-Ontiveros, Douglas Armitage, Allie Morris, ORNL, Oak Ridge, TN, USA; Drew Winder, Oak Ridge National Laboratory, Oak Ridge, TN, USA

PVP2026-177413: THERMAL CONTROL OF A HIGH TEMPERATURE QUANTUM BIT
Alton Reich, Streamline Automation, LLC, Huntsville, AL, USA; Danny Lazega, Gabriel Marcus, Quoherent, Inc., Winston-Salem, NC, USA; Timothy Carlson, David Carroll, Wake Forest University, Winston-Salem, NC, USA

PVP2026-177028: VERIFICATION OF THE CURRENT CONDITION OF OLD GAS PIPELINES USING QUASI-NON-DESTRUCTIVE SAMPLING OF STEEL PIPES (Presentation Only)
Jana Petzová, Marek Adamech, Dávid Slnek, VUJE a.s., Trnava, Slovakia

SESSION 3.2G (DA-02-05)

Wednesday, July 22, 10:15 am – 12:00 pm, Carmel

DESIGN AND ANALYSIS OF PIPING, PIPELINES, AND COMPONENTS - 5

Developed by: Chakrapani Basavaraju, US Nuclear Regulatory Commission, Rockville, MD, USA; Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada; Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA; Bing Li, Kinectrics, Inc., Toronto, ON, Canada; Clifton Vining, Worley, Houston, TX, USA
Chair: Clifton Vining, Worley, Houston, TX, USA
Co-Chair: Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada

PVP2026-179688: MITIGATION OF ACOUSTIC INDUCED AND HIGH FREQUENCY FLOW INDUCED VIBRATION AT BRANCH TO HEADER FITTINGS
Adin Mann, Wood PLC, Cleveland Heights, OH, USA; Daniel Cosic, Wood PLC, Calgary, AB, Canada

PVP2026-183366: IMPACT OF AXIAL TRIMMING AND ANGULAR OFFSET ON PRESSURE INTEGRITY OF PROOF-TESTED FITTINGS (Presentation Only)
Shunji Kataoka, JGC Corporation, Yokohama, Japan

PVP2026-183393: APPLICABILITY OF EMBEDDING PROCESS PIPING IN CONCRETE SLABS
Ahmed Shoukry, Ahmed M. Shoukry, CANDU Energy Inc., Mississauga, ON, Canada; Basem H. Abdelaleem, Omar Hammad, Hussam Tawfik, Sadath Malik, Ahmed Alian, Next Structural Integrity Inc., Burlington, ON, Canada

PVP2026-174905: PARAMETRIC INVESTIGATION OF WELDED SHOE SUPPORT CAPACITY USING ELASTIC AND LIMIT LOAD ANALYSES (Presentation Only)
Hyowon Han, Samsung E&A, Seoul, Republic of Korea

SESSION 3.2H (DA-04-01)

Wednesday, July 22, 10:15 am – 12:00 pm, San Simeon B

INELASTIC, NONLINEAR, AND LIMIT LOAD ANALYSIS - 1

Developed by: Andrew Owens, TerraPower LLC, Round Rock, TX, USA; Trevor Seipp, Becht, Okotoks, AB, Canada; Roy Darby, Chevron, Houston, TX, USA; Qi Li, T.D. Williamson, Houston, TX, USA; Mingxin Zhao, Enterprise Products, Houston, TX, USA
Chair: Ali Ok, Honeywell, Allentown, PA, USA
Co-Chair: Qi Li, T.D. Williamson, Houston, TX, USA

PVP2026-183432: STRUCTURAL INTEGRITY EVALUATION OF ASME CLASS MC STEEL CONTAINMENT VESSEL WITH LARGE OPENING FOR EXTREME LOADS
Jaspal Saini, Bechtel, Potomac, MD, USA; Yueh-Hua Tsai, Los Alamos National Laboratory, Los Alamos, NM, USA

PVP2026-179704: ASSESSMENT OF THE ULTIMATE PRESSURE CAPACITY OF A CONTAINMENT BUILDING CONSIDERING MATERIAL DEGRADATION
Gyeonghee An, Korea Atomic Energy Research Institute (KAERI), Daejeon, Republic of Korea; Tae-Hyun Kwon, Korea Atomic Energy Research Institute (KAERI), Yuseong-gu, Republic of Korea

PVP2026-179812: EXPERIMENTAL VALIDATION OF AN ELASTIC–PLASTIC TENSILE CURVE PREDICTION MODEL FOR ELASTIC–PLASTIC ANALYSIS
Hyun-Jin Lee, Hyun-Seok Song, Yun-Jae Kim, Korea University, Seoul, Republic of Korea; Jin-Weon Kim, Chosun University, Gwangju, Republic of Korea; Yukio Takahashi, Tokyo University of Science, Yokosuka, Japan

PVP2026-184008: A RAPID AXISYMMETRIC SURROGATE METHOD FOR SPLIT RING STRUCTURES WITH PHYSICAL HOOP GAPS
Rafal Sulwinski, Stats Group UK, Kintore, United Kingdom

SESSION 3.2I (MF-05-01)

Wednesday, July 22, 10:15 am – 12:00 pm, San Simeon A

FITNESS-FOR-SERVICE AND FAILURE ASSESSMENT – 1 (WITH DA-22)

Co-Sponsored by the Materials & Fabrication and Design & Analysis Technical Committees

Developed by: Marvin Cohn, Intertek, Santa Clara, CA, USA; Qin Ma, Walla Walla University, College Place, WA, USA; Carl Jaske, HSI Group, Columbus, OH, USA; Bruce Wiersma, Savannah River National Laboratory, Aiken, SC, USA; Harry Coules, Amentum, Bristol, United Kingdom; Graeme Horne, Frazer-

Nash Consultancy, Bristol, United Kingdom; Arindam Chakraborty, Virtual Integrated Analytics Solutions (VIAS), San Jose, CA, USA; Edward Horton, University of Bristol, Bristol, United Kingdom
Chair: Marvin Cohn, Intertek, Santa Clara, CA, USA
Co-Chair: Qin Ma, Walla Walla University, College Place, WA, USA

PVP2026-183166: ASSESSMENT OF CRACK BEHAVIOR UNDER THERMAL TRANSIENTS: A COMPARATIVE STUDY OF LEVEL 2 FAD AND API 579 9G.5 METHODS
Mozhgan Kermajani, Nathan Stanbridge, Quest Integrity, Varsity Lakes, Queensland, Australia; Daniel Blanks, Quest Integrity, Gold Coast, Queensland, Australia

PVP2026-183257: INNOVATIVE ISOLATION OF A FAILED ORBITAL WELD IN AN ASME U-STAMPED ELECTRIC HEATER USING POP-A-PLUG® TECHNOLOGY: A CASE STUDY FROM NUMALIGARH REFINERY LIMITED
Sarfrazullah Nawaz Sayed, Numaligarh Refinery Limited, Golaghat, India

PVP2026-179819: SHORT LIFE ASSESSMENT OF OLEFIN FURNACE 321H STAINLESS STEEL CONVECTION SECTION (Presentation Only)
Stuart Scully, Abitha Ramesh, Shell, Monaca, PA, USA; Andrew Thigpen, Becht, Monaca, PA, USA; Jorge Penso, Shell, Houston, TX, USA

PVP2026-178149: LIFTING OF ABOVEGROUND STORAGE TANK: FEA VALIDATION USING 3D LASER SCANNING
Harsh Bohra, Mark Baker, Baker Consulting Group, Inc., Lawrenceville, GA, USA

SESSION 3.2J (HT-06-01)

Wednesday, July 22, 10:15 am – 12:00 pm, Avila B
DESIGN AND ANALYSIS OF HIGH-PRESSURE EQUIPMENT FOR OIL AND GAS EXPLORATION
Developed by: Gaurav Bansal, SLB, Houston, TX, USA; Kumarswamy Karpanan, Kairos Power LLC, Houston, TX, USA; Sreelatha Kilambi, T.D. Williamson, Tulsa, OK, USA; Barry Stewart, TechnipFMC, Glasgow, United Kingdom; Thiago Daflon, TechnipFMC, Rio de Janeiro, Brazil; Przemyslaw Lutkiewicz, DNV, Drammen, Norway
Chair: Gaurav Bansal, SLB, Houston, TX, USA
Co-Chair: Barry Stewart, TechnipFMC, Glasgow, United Kingdom

PVP2026-178085: STRUCTURAL AND SEALING PERFORMANCE OF HPHT CONTROL PORTS IN SUBSEA INTERVENTION SYSTEMS
Rishiraj Bhattacharjee, SLB OneSubsea, College Station, TX, USA; Pushplata Rohilla, SLB OneSubsea, Cypress, TX, USA; Gaurav Bansal, SLB, Houston, TX, USA

PVP2026-178187: PRECHARGE PRESSURE OPTIMIZATION FOR SUBSEA ACCUMULATORS IN OFFSHORE ENGINEERING APPLICATIONS
Pushplata Rohilla, SLB OneSubsea, Houston, TX, USA; Rishiraj Bhattacharjee, SLB OneSubsea, College Station, TX, USA; Gaurav Bansal, SLB, Houston, TX, USA

PVP2026-182474: INTEGRITY ASSESSMENT OF BOLTING MATERIAL FOR SUBSEA APPLICATIONS
Mateus Porto, Maurício Pacheco, Fabio Alves, TechnipFMC, Rio de Janeiro, Brazil; Barry Stewart, TechnipFMC, Glasgow, United Kingdom

PVP2026-183463: DESIGN STRATEGIES FOR FATIGUE-RESISTANT H P H T SUBSEA COMPONENTS: FRACTURE MECHANICS INSIGHTS WITH PRESSURE-INDUCED SHAKEDOWN EFFECTS
Grzegorz Widlak, TechnipFMC, Krakow, Poland; Sam (Kwok Lun) Lee, Brian Skeels, TechnipFMC, Houston, TX, USA

SESSION 3.2K (MF-11-01)

Wednesday, July 22, 10:15 am – 12:00 pm, Avila A
SMALL-SCALE AND MINIATURE MECHANICAL TESTING - 1
Developed by: Masato Yamamoto, Japan Atomic Energy Agency (JAEA), Tokai, Japan; Mark Kirk, Phoenix Engineering Associates Inc., Claremont, NH, USA; William Server, Consultant, Black Mountain, NC, USA; Petra Klatovská, ÚJV Řež, a. s., Prague, Czech Republic; Marek Adamech, VUJE a.s., Trnava, Slovakia; Dávid Slnek, VUJE a.s., Trnava, Slovakia
Chair: Masato Yamamoto, Japan Atomic Energy Agency (JAEA), Tokai, Japan
Co-Chair: Benoit Tanguy, Université Paris-Saclay (CEA), Gif Sur Yvette, France

PVP2026-183225: EVALUATING STRENGTH PROPERTIES OF AUSTENITIC STAINLESS STEEL PIPING BY INSTRUMENTED SPHERICAL INDENTATION
Martin Negyesi, Technical University of Ostrava, Ostrava, Czech Republic; Yoosung Ha, Japan Atomic Energy Agency (JAEA), Naka-Gun, Japan; Kunio Hasegawa, Japan Atomic Energy Agency (JAEA), Tokai, Japan; Valéry Lacroix, Tractebel Engie, Brussels, Belgium

PVP2026-179805: OVERVIEW OF SAFER2028-CONI (CONSTRAINT, IRRADIATION EMBRITTLEMENT AND RPV SAFETY)
Pentti Arffman, VTT Technical Research Centre of Finland Ltd., Helsinki, Finland; Timo Veijola, Siddharth Suman, Sebastian Lindqvist, VTT Technical Research Centre of Finland Ltd., Espoo, Finland

PVP2026-179758: SUB-SIZE SPECIMEN ASSESSMENT TO DETERMINE THE FRACTURE TOUGHNESS OF AN ALUMINUM ALLOY
Benoit Tanguy, Pierrick François, Xavier Rochette, Université Paris-Saclay (CEA), Gif Sur Yvette, France

PVP2026-177493: SMALL PUNCH TESTS AS A SCREENING METHOD FOR THE ASSESSMENT OF INNOVATIVE MATERIALS PERFORMANCE: EXAMPLE OF A HEA FROM CRFEMNNI FAMILY (Presentation Only)
Marta Serrano Garcia, Rebeca Hernandez Pascual, Antonio Fernandez-Viña Reinoso, CIEMAT, Madrid, Spain; Mathieu Traversier, Anna Fraczkiewicz, Mines Saint-Etienne, Université de Lyon, CNRS, Saint-Etienne, France

SESSION 3.2L (CS-10-01)

Wednesday, July 22, 10:15 am – 12:00 pm, El Capitan A
RECENT DEVELOPMENTS IN CHINESE CODES AND STANDARDS - 1
Developed by: Jianfeng Shi, Zhejiang University, Hangzhou, China; Jinyang Zheng, Zhejiang University, Hangzhou, China; Guodong Jia, China Special Equipment Inspection & Research Institute, Beijing, China; Guide Deng, China Special Equipment Inspection & Research Institute, Beijing, China; Xuedong Chen, Hefei General Machinery Research Institute Co., Ltd., Hefei, China; Zhichao Fan, Hefei General Machinery Research Institute Co., Ltd., Hefei, China; Yinghua Liu, Tsinghua University, Beijing, China; Junyang Chen, Guangdong Institute of Special Equipment Inspection and Research, Foshan City, Guangdong, China
Chair: Xuedong Chen, Hefei General Machinery Research Institute Co., Ltd., Hefei, China
Co-Chair: Yu Zhou, Hefei General Machinery Research Institute Co., Ltd., Hefei, China

PVP2026-179542: TECHNOLOGICAL PROGRESS IN THE DESIGN, MANUFACTURING AND MAINTENANCE OF PRESSURE VESSELS IN CHINA
Xuedong Chen, Wei Chen, Yu Zhou, Peng Xu, Jingwei Cheng, Xiaohu Zhang, Zhichao Fan, Shuangqing Xu, Hefei General Machinery Research Institute Co., Ltd., Hefei, China; Jun Cui, Kinectrics, Inc., Toronto, ON, Canada

PVP2026-183506: EFFECT OF FATIGUE PRE-CRACK LENGTH ON FRACTURE TOUGHNESS IN MINIATURIZED COMPACT TENSION SPECIMENS
Meng Li, Hefei General Machinery Research Institute Co., Ltd., Hefei, Anhui, China; Jie Dong, Yu Zhou, Xuedong Chen, Kai Wu, Hefei General Machinery Research Institute Co., Ltd., Hefei, China

PVP2026-179657: SIMULATION ANALYSIS AND OPTIMAL DESIGN OF PRE-STRESSED STEEL WIRE-WOUND ULTRA-HIGH-PRESSURE VESSEL
Xiaoliang Jia, Yunmeng Zhou, Kai Wang, Zhiwei Chen, Fang Ji, China Special Equipment Inspection & Research Institute, Beijing, China; Zhengchi Li, Beijing University of Chemical Technology, Beijing, China

PVP2026-175816: APPLICABILITY ANALYSIS OF SUPERCRITICAL CO2 PIPELINE CRACK ARREST DESIGN STANDARD BASED ON FINITE ELEMENT SIMULATION
Wang Ruoxi, Chen Zhiwei, Jia Xiaoliang, Ji Fang, China Special Equipment Inspection & Research Institute, Beijing, China; Liu Xiaoben, China University of Petroleum, Beijing, China; Yan Feng, PipeChina Institute of Science and Technology, Beijing, China

SESSION 3.2M (AE-06-02)

Wednesday, July 22, 10:15 am – 12:00 pm, El Capitan B
NON-METALLICS FOR HYDROGEN SERVICE - 2

Developed by: Nalini Menon, Sandia National Laboratories, Livermore, CA, USA; Kevin Simmons, Pacific Northwest National Laboratory, Richland, WA, USA
Chair: Kevin Simmons, Pacific Northwest National Laboratory, Richland, WA, USA
Co-Chair: Nalini Menon, Sandia National Laboratories, Livermore, CA, USA

PVP2026-179608: EFFECT OF FILLERS ON SEALING PERFORMANCE OF O-RING USED IN HIGH-PRESSURE HYDROGEN ENVIRONMENTS
Sang Min Lee, Byeong-Lyul Choi, Byoung-Ho Choi, Korea University, Seoul, Republic of Korea

PVP2026-182714: ELASTOMERIC MATERIALS FOR HYDROGEN SERVICES (Presentation Only)
Wenbin Kuang, Kevin Simmons, Ethan Nickerson, Pacific Northwest National Laboratory, Richland, WA, USA; Nalini Menon, Sandia National Laboratories, Livermore, CA, USA

PVP2026-183367: THE EFFECT OF HIGH-PRESSURE HYDROGEN ON THE POLYETHYLENE (Presentation Only)
Sang Koo Jeon, Nae Hyung Tak, Un-Bong Baek, Seung Hoon Nahm, Korea Research Institute of Standards and Science (KRISS), Daejeon, Republic of Korea; Nak-Kwan Chung, Korea Research Institute of Standards and Science (KRISS), Daejeon, Daejeon, Republic of Korea

SESSION 3.2N (CT-07-01)

Wednesday, July 22, 10:15 am – 12:00 pm, Malibu
COMPUTATIONAL APPLICATIONS IN FATIGUE, FRACTURE, AND DAMAGE MECHANICS - 1/FRACTURE MECHANICS & FEA FOR NUCLEAR COMPONENTS (WITH CT-06)

Developed by: Wolf Reinhardt, AtkinsRéalis/Candu Energy Inc., Mississauga, ON, Canada; Reza Adibi-Asl, Nergx, Toronto, ON, Canada; Bing Li, Kinectrics, Inc., Toronto, ON, Canada; Wanhua (Carol) Liang, AtkinsRéalis, Mississauga, ON, Canada
Chair: Yihai Shi, AtkinsRéalis, Mississauga, ON, Canada
Co-Chair: Reza Adibi-Asl, Nergx, Toronto, ON, Canada

PVP2026-183258: FINITE ELEMENT VALIDATION OF ANALYTICAL PROCESS-ZONE MODELS FOR DHC INITIATION IN CANDU PRESSURE TUBES
Wanhua (Carol) Liang, CANDU Energy Inc., Milton, ON, Canada; Wolf Reinhardt, AtkinsRéalis/Candu Energy Inc., Mississauga, ON, Canada; Yihai Shi, CANDU Energy Inc., Mississauga, ON, Canada

PVP2026-180680: AN FEM STUDY ON FRACTURE TOUGHNESS EVALUATION OF CLAD-HAZ IN RPV STEEL
Hideki Yuya, Minako Yoshikawa, Chubu Electric Power Co., Inc., Omaezaki, Japan; Shun Miyaoka, Chubu Electric Power Co., Inc., Nagoya, Japan; Tomoyuki Fujii, Yoshinobu Shimamura, Shizuoka University, Hamamatsu, Japan; Akihiko Kimura, Kyoto University, Gokasho, Japan

PVP2026-183346: BULGING FACTOR FOR PART-THROUGH WALL CRACKS IN THIN-WALLED REACTOR TUBES
Seishiro Gordon Ozawa, Min Wang, Wanhua (Carol) Liang, CANDU Energy Inc., Mississauga, ON, Canada; Wolf Reinhardt, AtkinsRéalis/Candu Energy Inc., Mississauga, ON, Canada

PVP2026-179820: FINITE ELEMENT ANALYSIS STUDY ON THE SEALING PERFORMANCE AND STRUCTURAL STRENGTH OF OCTAGONAL GASKET FLANGES UNDER THE INFLUENCE OF TEMPERATURE AND OVERLAY WELDING THICKNESS
Guan Chenfeng, Sunting Yan, Yonggui Chen, Ping Tang, Wei Chen, Meng Yuan, Liming Wang, Zhejiang Academy of Special Equipment Science, Hangzhou, China

SESSION 3.2O (AE-01-03)

Wednesday, July 22, 10:15 am – 12:00 pm, Santa Monica
HYDROGEN PIPELINES - 3

Developed by: Joseph Ronevich, Sandia National Laboratories, Livermore, CA, USA
Chair: Birhan Sefer, Swerim AB, Knivsta, Sweden
Co-Chair: Nicolas Larrosa, University of Bristol, Bristol, United Kingdom

PVP2026-179908: SENSITIVITY OF PIPELINE STRUCTURAL INTEGRITY ASSESSMENTS TO MODELING ASSUMPTIONS IN PROBABILISTIC FRACTURE MECHANICS FOR EVALUATING RISKS OF TRANSPORTING HYDROGEN AND HYDROGEN BLENDS IN NATURAL GAS INFRASTRUCTURE
Benjamin Schroeder, Hector Mendoza, Sandia National Laboratories, Albuquerque, NM, USA; Chris San Marchi, Joseph Ronevich, Sandia National Laboratories, Livermore, CA, USA

PVP2026-182999: COMPREHENSIVE ENGINEERING ASSESSMENT OF CRACK-LIKE FEATURES IN HYDROGEN PIPELINES
Luyao Xu, DNV, Calgary, AB, Canada; Shane Finneran, DNV, Columbus, OH, USA

PVP2026-179866: TECHNO-ECONOMIC COMPARISON AND SENSITIVITY ANALYSIS OF HYDROGEN TRANSPORT MODES
Bingjie Fu, Zhengyu Hu, Chaohua Gu, Jianfeng Shi, Zhejiang University, Hangzhou, China

PVP2026-182061: MATERIALS PROPERTY: A REMAINING CHALLENGE IN FEASIBILITY ASSESSMENT OF EXISTING NATURAL GAS SYSTEMS FOR TRANSPORTING HYDROGEN–NATURAL GAS (H_2–NG) BLENDS
Saba Nava, DNV, Philadelphia, PA, USA; Shane Finneran, DNV, Columbus, OH, USA

SESSION 3.2Q (TW-01-10)

Wednesday, July 22, 10:15 am – 12:00 pm, Pacific A
EPRI-ASME-AWS WORKSHOP: PERFORMANCE OF WELDS IN THE ENERGY SECTOR - PART 2

Chair: John Siefert, EPRI, Charlotte, NC, USA
Co-Chair: Jorge Penso, Shell, Houston, TX, USA

Block 4.1: Thursday, July 23, 2026 (4:15 pm – 6:00 pm)

SESSION 4.1B (MF-17-02)

Thursday, July 23, 8:00 am – 9:45 am, California A

ADVANCED AND ADDITIVE MANUFACTURING AND MATERIAL TECHNOLOGIES - 2

Developed by: Paul Korinko, Savannah River National Laboratory, Aiken, SC, USA; Ana Reis, University of Porto, Porto, Portugal; Andrew Duncan, Savannah River National Laboratory, Aiken, SC, USA; Adam Cooper, Amentum, Warrington, Cheshire, United Kingdom; Sylvain Pillot, Le Creusot, Bourgogne-Franche-Comté, France; Catrin Mair-Davies, Imperial College London, London, United Kingdom; Arindam Chakraborty, Virtual Integrated Analytics Solutions (VIAS), San Jose, CA, USA; M. Kevin Mandeville Jr., DNV, Katy, TX, USA; Michael McMurtrey, Idaho National Laboratory, Idaho Falls, ID, USA; Steven Lawler, Frazer-Nash Consultancy, Burton-on-Trent, United Kingdom; Qin Ma, Walla Walla University, College Place, WA, USA

Chair: Paul Korinko, Savannah River National Laboratory, Aiken, SC, USA

Co-Chair: Ana Reis, University of Porto, Porto, Portugal

PVP2026-178487: ADVANCING OF TECHNICAL FOUNDATIONS FOR STANDARDIZING ADDITIVE MANUFACTURING FOR NUCLEAR COMPONENTS I) EVALUATION OF THE TEMPERATURE DEPENDENCE OF TENSILE PROPERTIES OF ADDITIVELY MANUFACTURED TYPE 316L STAINLESS STEEL

Hirotsugu Kawanaka, Masanori Miyagi, Tomonori Kimura, Shinichi Ishioka, Shinobu Okido, Hitachi GE Vernova Nuclear Energy, Ltd., Hitachi, Japan; Wataru Nishi, Mitsubishi Heavy Industries, Ltd., Kobe, Japan; Tomonori Abe, Toshiba, Kawasaki, Japan; Naoki Tajima, IHI Corporation, Yokohama, Japan

PVP2026-180096: ADVANCING OF TECHNICAL FOUNDATIONS FOR STANDARDIZING ADDITIVE MANUFACTURING FOR NUCLEAR COMPONENTS II) FATIGUE TEST OF TYPE316L SS FOR STANDARDIZATION OF AM MATERIALS IN THE NUCLEAR FIELD – 2ND PROGRESS –

Naoki Tajima, Masashi Mori, Hirofumi Yamadori, IHI Corporation, Yokohama, Japan; Wataru Nishi, Mitsubishi Heavy Industries, Ltd., Kobe, Japan; Tomonori Abe, Toshiba, Kawasaki, Japan; Shinobu Okido, Hitachi GE Vernova Nuclear Energy, Ltd., Hitachi, Japan

PVP2026-182749: ADVANCING OF TECHNICAL FOUNDATIONS FOR STANDARDIZING ADDITIVE MANUFACTURING FOR NUCLEAR COMPONENTS III) QUALIFICATION APPROACHES OF COMPONENT MANUFACTURED BY LASER POWDER BED FUSION (L-PBF)

Tomonori Abe, Toshiba, Kawasaki, Japan; Masako Tsutsumi, Hiromasa Ichise, Yoshinori Katayama, Atsushi Mori, Toshiba, Yokohama, Japan; Wataru Nishi, Mitsubishi Heavy Industries, Ltd., Kobe, Japan; Shinobu Okido, Hitachi GE Vernova Nuclear Energy, Ltd., Hitachi, Japan; Naoki Tajima, IHI Corporation, Yokohama, Japan

PVP2026-177293: ADVANCING OF TECHNICAL FOUNDATIONS FOR STANDARDIZING ADDITIVE MANUFACTURING FOR NUCLEAR COMPONENTS - IV) QUALIFICATION APPROACHES OF COMPONENT MANUFACTURED BY LASER WIRE DIRECTED ENERGY DEPOSITION (LW-DED)

Wataru Nishi, Makoto Nakajima, Mitsubishi Heavy Industries, Ltd., Kobe, Japan; Tomonor Abe, Toshiba, Yokohama, Japan; Shinobu Okido, Hitachi GE Vernova Nuclear Energy, Ltd., Hitachi, Japan; Naoki Tajima, IHI Corporation, Yokohama, Japan

SESSION 4.1C (OAC-01-01)

Thursday, July 23, 8:00 am – 9:45 am, California B

2ND AI SYMPOSIUM: SAFETY, RELIABILITY, AND RISK MANAGEMENT - 1 (WITH OAC-03)

Developed by: Alton Reich, Streamline Automation, LLC, Huntsville, AL, USA; Sarah Suffield, Pacific Northwest National Laboratory, Richland, WA, USA

Chair: Alton Reich, Streamline Automation, LLC, Huntsville, AL, USA

Co-Chair: Ayman Cheta, Shell, Houston, TX, USA

PVP2026-176714: A REVIEW OF CAUSES, PROPAGATION MECHANISMS, AND CONTROL MEASURES OF UNSAFE OPERATOR BEHAVIORS IN THE OIL AND GAS INDUSTRY

Mingjun Ma, Jinqiu Hu, Laibin Zhang, Xin Xu, China University of Petroleum, Beijing, China; Shengli Chu, CNPC Research Institute of Safety & Environment Technology Co., Ltd., Beijing, China

PVP2026-179579: FAULT DIAGNOSIS MODEL FOR FPSO EMERGENCY SHUTDOWN DEVICE ENHANCED WITH PRIOR KNOWLEDGE

Xinyi Li, Jinqiu Hu, Laibin Zhang, Xin Xu, China University of Petroleum, Beijing, China

PVP2026-179490: SEQUENCE-BASED DEEP LEARNING MODELS FOR PREDICTING ACOUSTIC SIGNALS IN SAND-LADEN MULTIPHASE FLOW

Qiuchen Wang, The Univeristy of Tulsfa, Tulsa, OK, USA; Asad Nadeem, Soroor Karimi, Siamack Shirazi, The University of Tulsa, Tulsa, OK, USA

SESSION 4.1D (MF-06-03)

Thursday, July 23, 8:00 am – 9:45 am, Sunset

MATERIALS AND TECHNOLOGIES FOR NUCLEAR POWER PLANTS - 3 (WITH MF-29)

Developed by: Yiyu (Jason) Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Xiang (Frank) Chen, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Rita Kirchhofer, Secretariat, Golden, CO, USA; Murthy Kolluri, NRG, Petten, Netherlands; Dongmei (Donna) Sun, Liburdi Group of Companies, Guelph, ON, Canada

Chair: Yiyu (Jason) Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA

Co-Chair: Dongmei (Donna) Sun, Liburdi Group of Companies, Guelph, ON, Canada

PVP2026-175155: QUALIFYING NUCLEAR STRUCTURAL MATERIALS WITH SPARSE DATA: A GAPS ANALYSIS FOR ENVIRONMENTAL EFFECTS EXPERIMENTS AND FACILITIES

Caleb Massey, Stephen Taller, Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Heramb Mahajan, Drew Johnson, Michael McMurtrey, Idaho National Laboratory, Idaho Falls, ID, USA; Bipul Barua, Argonne National Laboratory, Lemont, IL, USA; Mark Messner, Argonne National Laboratory, Plainfield, IL, USA

PVP2026-179920: LONG-TERM PERFORMANCE OF HIGH-CR NICKEL-BASED ALLOYS AND WELDMENTS IN LWR ENVIRONMENT (Presentation Only)

Bogdan Alexandreanu, Yiren Chen, Xuan Zhang, Wei Chen, Argonne National Laboratory, Lemont, IL, USA

PVP2026-180416: AN IMPROVED PHYSICS INFORMED GRAPHITE MODEL

Connor Panick, Michael Saitta, Gwennael Beirnaert, Nikolai Kosinski, MPR Associates, Inc., Alexandria, VA, USA; Florentius Johannes Van Zanten, Samuel Baylis, X-energy, LLC, Rockville, MD, USA

PVP2026-179620: PHYSICS INFORMED GRAPHITE THERMAL MATERIAL MODEL

Diana Liepinya, Michael Saitta, Connor Panick, Gwennaël Beirnaert, MPR Associates, Inc., Alexandria, VA, USA; Florentius Johannes Van Zanten, Samuel Baylis, X-energy, LLC, Rockville, MD, USA

SESSION 4.1E (FSI-02-02)

Thursday, July 23, 8:00 am – 9:45 am, Salinas

FLOW-INDUCED VIBRATION - 2

Developed by: Marwan Hassan, University of Guelph, Guelph, ON, Canada; Atef Mohany, Ontario Tech University, Oshawa, ON, Canada;

Salim El Bouzidi, Canadian Nuclear Laboratories, Chalk River, ON, Canada
Chair: Akane Uemichi, Yamaguchi University, Yamaguchi, Japan
Co-Chair: Francisco Huera-Huarte, Universitat Rovira i Virgili, Tarragona, Spain

PVP2026-177931: EFFECTS OF CAVITATION ON FLOW CHARACTERISTICS AND EXCITATION FORCES IN A CENTRIFUGAL PUMP
Chengshuai Yang, Shaohua Dong, Lushuai Xu, China University of Petroleum, Beijing, China

PVP2026-178478: ACOUSTIC-STRUCTURAL COUPLED ANALYSIS OF BAFFLE PLATES FOR MITIGATION OF ACOUSTIC RESONANCE
Masato Nishiguchi, Itsuro Hayashi, Chiyoda Corporation, Yokohama, Japan; Hiromitsu Hamakawa, Oita University, Oita-Shi, Japan

PVP2026-183219: EXPERIMENTAL STUDY ON FLOW-INDUCED VIBRATION OF RIGIDLY COUPLED CYLINDERS AT DIFFERENT ANGLES OF ATTACK
Bowen Tang, Moxiao Liu, Xiaoyang Yu, Hewei Yang, Guorui Zhu, Wei Tan, Tianjin University, Tianjin, China

SESSION 4.1F (NDE-02-01)

Thursday, July 23, 8:00 am – 9:45 am, Monterey
NDE TECHNIQUES AND APPLICATIONS FOR PETROCHEMICAL AND POWER PLANT COMPONENTS - 1
Developed by: Min Zhang, Linde Inc., Tonawanda, NY, USA; Vivek Agarwal, Idaho National Laboratory, Idaho Falls, ID, USA
Chair: Clay Rodery, C&S Technology LLC, League City, TX, USA
Chair: Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA
Chair: Vivek Agarwal, Idaho National Laboratory, Idaho Falls, ID, USA
Chair: Min Zhang, Linde Inc., Tonawanda, NY, USA

PVP2026-176983: DESIGN AND EXPERIMENTAL RESEARCH ON PORTABLE TESTING DEVICE FOR INTERNAL AND EXTERNAL THREADS OF DRILLING TOOLS
Zhitong Zhang, Jianchun Fan, China University of Petroleum (Beijing), Beijing, China; Hao Jiang, Oak Ridge National Laboratory, Oak Ridge, TN, USA

PVP2026-179520: HIGH-RESOLUTION STRUCTURAL HEALTH MONITORING USING PERMANENTLY INSTALLED ULTRASONIC ARRAY STICKERS
Xiaoyu Sun, Xuedong Chen, Jingwei Cheng, Tian Ji, Tao Cai, Yao Yu, Hefei General Machinery Research Institute Co., Ltd., Hefei, China

PVP2026-179074: CARBURIZATION LAYER THICKNESS MEASUREMENT METHOD FOR ETHYLENE CRACKING FURNACE TUBES BASED ON EDDY CURRENT TESTING
Jian Tang, Xuedong Chen, Tao Chen, Zhe Wang, Xiaokang Wan, Jingwei Cheng, Hefei General Machinery Research Institute Co., Ltd., Hefei, China; Zihao Zhang, Zhejiang University, Hangzhou, China

SESSION 4.1G (DA-02-06)

Thursday, July 23, 8:00 am – 9:45 am, Carmel
DESIGN AND ANALYSIS OF PIPING, PIPELINES, AND COMPONENTS - 6
Developed by: Chakrapani Basavaraju, US Nuclear Regulatory Commission, Rockville, MD, USA; Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada; Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA; Bing Li, Kinectrics, Inc., Toronto, ON, Canada; Clifton Vining, Worley, Houston, TX, USA
Chair: Bing Li, Kinectrics, Inc., Toronto, ON, Canada
Co-Chair: Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada

PVP2026-182786: STRUCTURAL INTEGRITY EVALUATION OF CANDU CALANDRIA VESSEL UNDER COMMON MODE EVENT
Daniel Bajwa, Dara O'Kane, Bing Li, Edwin Chen, Kinectrics, Inc., Toronto, ON, Canada; David McNeish, Bruce Power, Tiverton, ON, Canada

PVP2026-180126: COOLDOWN OF LNG LOADING SYSTEMS – AN INTEGRATED APPROACH. PART 2: FLUID-STRUCTURE INTERACTION
Ian Bottomley, Alireza Azarbadegan, Andre Nicole, BP, London, United Kingdom; Nick Carr, BP, Houston, TX, USA; Warren Brown, Integrity Engineering Solutions, Dunsborough, Australia

PVP2026-179951: SIMPLIFIED FLUID STRUCTURE INTERACTION IN PIPING (Presentation Only)
Roberto Merlo, Baker Hughes, Arezzo, Italy

PVP2026-183381: INVESTIGATION AND ASSESSMENT OF AERODYNAMIC NOISE CHARACTERISTICS OF NATURAL GAS PIPELINE CONTROL VALVES FOR HYDROGEN TRANSPORTATION
Shuxia Yuan, Junhao Liu, Song Wu, Zihan Yang, Xiaohai Liao, Xiangpu Zhao, Xi'an Shiyou University, Xi'an, China; Dianyan Ning, CCTEG Xi'an Research Institute (Group) Co., Ltd., Xi'an, China

SESSION 4.1H (FSI-01-01)

Thursday, July 23, 8:00 am – 9:45 am, San Simeon B
THERMAL HYDRAULIC PHENOMENA WITH VESSELS, PIPING AND COMPONENTS - 1
Developed by: Arris Tijsseling, Eindhoven University of Technology, Eindhoven, Netherlands; Thorsten Neuhaus, TUEV Nord, Hamburg, Germany; Scott Lang, Datacor (Formerly AFT), Colorado Springs, CO, USA
Chair: Scott Lang, Datacor (Formerly AFT), Colorado Springs, CO, USA
Co-Chair: Kazuaki Inaba, Tokyo Institute of Technology, Meguro, Japan

PVP2026-179720: MODELING AND EXPERIMENTAL VALIDATION OF VIBRATION MODES IN A SMALL-DIAMETER COMPOSITE STRAIGHT-TUBE CORIOLIS MASS FLOWMETER
Yueyang Huang, Institute of Science Tokyo, Meguro, Japan; Kazuaki Inaba, Tokyo Institute of Technology, Meguro, Japan; Shinya Otsuki, Alphi Technology Co., Ltd., Urayasu, Japan

PVP2026-180009: PRACTICAL GUIDANCE ON MODELING PUMPS UNDER TRANSIENT CONDITIONS
Trey Walters, Datacor (Formerly AFT), Colorado Springs, CO, USA

PVP2026-175271: SOLUTION OF UNSTEADY FLOW EQUATIONS FOR HIGH SPEED PULSED OR PULSATING FLOWS, FLUID-STRUCTURE INTERACTIONS, AND FLUIDIC PYROTECHNIC INITIATIONS (Presentation Only)
Ramlala Sinha, Applied Engineering Consultants, Fairfax, VA, USA

SESSION 4.1I (FSI-03-01)

Thursday, July 23, 8:00 am – 9:45 am, San Simeon A
STRUCTURES UNDER EXTREME LOADING CONDITIONS – 1 (WITH HT-02)
Co-Sponsored by the Fluid-Structure Interaction and High Pressure Technology Technical Committees
Developed by: Jihui Geng, BakerRisk, San Antonio, TX, USA; Matt Edel, BakerRisk, San Antonio, TX, USA; Megan Tribble, Sandia National Laboratories, Albuquerque, NM, USA
Chair: Robert Valdiviez, Applied Mechanics Engineering, LLP, Orange, CA, USA
Co-Chair: Matt Edel, BakerRisk, San Antonio, TX, USA

PVP2026-179757: MODELING OF THE RELIEF IN HIGH-PRESSURE SYSTEMS ON MINI-PLANT SCALE: FROM THE DESCRIPTION OF IDEAL SYSTEMS TO REAL SYSTEMS
Daniel Dyck, Markus Busch, Technical University of Darmstadt, Darmstadt, Germany

PVP2026-183396: NUMERICAL SIMULATION AND VALIDATION OF HYDROGEN-AIR DDT IN PARTIALLY CONFINED AND CONGESTED AREA
Jihui Geng, Kelly Thomas, BakerRisk, San Antonio, TX, USA

PVP2026-182499: PREDICTION OF CRITICAL TIME FOR PLASTIC INSTABILITY OF PRESSURE RELIEF VALVES UNDER EXTREME HIGH-TEMPERATURE THERMAL SHOCK

Zhi-Hui Liu, Yu-Wei Wang, Zhang-Yong Jin, Jin-Yuan Qian, Zhejiang University, Hangzhou, China; Xin Wang, Carleton University, Ottawa, ON, Canada; Ping Liu, SUFA Technology Industry Co., Ltd., Suzhou, China

SESSION 4.1J (HT-01-01)

Thursday, July 23, 8:00 am – 9:45 am, Avila B

DESIGN, ANALYSIS AND LIFE PREDICTION OF HIGH-PRESSURE VESSELS AND EQUIPMENT (WITH HT-04)

Developed by: Erick Ritter, Structural Integrity Associates Inc., Littleton, CO, USA; Melanie Sarzynski, Becht, Houston, TX, USA; Nathan Barkley, Refined Engineering, Tupelo, MS, USA; Thomas Draper, Structural Integrity Associates Inc., Centennial, CO, USA; Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA

Chair: Erick Ritter, Structural Integrity Associates Inc., Littleton, CO, USA

Co-Chair: Thomas Draper, Structural Integrity Associates Inc., Centennial, CO, USA

PVP2026-180354: DESIGN METHODOLOGY AND BASIS FOR ASME B16.53 HIGH PRESSURE CONNECTIONS
Daniel Peters, Atlas Consulting LLC, Leonardtown, MD, USA; Patrick Speranza, Guidant Measurement, Erie, PA, USA

PVP2026-182853: DESIGN OF A QUICK-ACTING CLOSURE ON A 30-INCH, 16.5 KSI DIV.3 VESSEL FOR DEEP OCEAN SIMULATION
Kyle Robinson, Southwest Research Institute, San Antonio, TX, USA

PVP2026-179729: CASE STUDY ON APPLICATION OF OVERPRESSURE PROTECTION BY SYSTEM DESIGN FOR A SECTION VIII, DIVISION 3 PRESSURE VESSEL
Rahul Kapadia, ASML, Eindhoven, Netherlands; Daniel Kaarls, Maarten Hoeijmakers, Roel Geubbels, ASML, Veldhoven, Netherlands

PVP2026-183208: DESIGN OF HIGH-PRESSURE SEALING STRUCTURE OF END CLOSURE FOR LARGE-DIAMETER AMMONIA CONVERTERS
Jie Liu, China Wuhuan Engineering Corporation Ltd., Wuhan, China

SESSION 4.1K (CS-20-01)

Thursday, July 23, 8:00 am – 9:45 am, Avila A

MASTER CURVE METHOD AND APPLICATIONS - 1

Developed by: Mark Kirk, Phoenix Engineering Associates Inc., Claremont, NH, USA; Masato Yamamoto, Japan Atomic Energy Agency (JAEA), Tokai, Japan; William Server, Consultant, Black Mountain, NC, USA; Yoosung Ha, Japan Atomic Energy Agency (JAEA), Naka-Gun, Japan

Chair: Yoosung Ha, Japan Atomic Energy Agency (JAEA), Naka-Gun, Japan

Co-Chair: J. Brian Hall, Westinghouse, Churchill, PA, USA

PVP2026-177474: METHODS TO PREDICT THE EFFECT OF NEUTRON IRRADIATION ON THE FRACTURE TOUGHNESS TRANSITION TEMPERATURE (ΔT0) OF REACTOR PRESSURE VESSEL STEELS
Mark Kirk, Marjorie Erickson, Phoenix Engineering Associates Inc., Claremont, NH, USA; Elliot Long, EPRI, Palo Alto, CA, USA

PVP2026-177478: CODE CASE N-914: COMPREHENSIVE AND CONSISTENT METHODS FOR TO ESTIMATE AN IRRADIATED REFERENCE TEMPERATURE FOR USE IN SECTION XI CALCULATIONS IN NONMANDATORY APPENDICES A AND G
Mark Kirk, Marjorie Erickson, Phoenix Engineering Associates Inc., Claremont, NH, USA; Elliot Long, EPRI, Palo Alto, CA, USA

PVP2026-179976: EXAMPLE APPLICATIONS OF T0 FOR EVALUATION OF RPV INTEGRITY COMPARING DIFFERENT METHODS
J. Brian Hall, Westinghouse, Churchill, PA, USA; Derek Simpson, Westinghouse, Cranberry Township, PA, USA

PVP2026-180038: TEMPERATURE DEPENDENCE OF MASTER CURVE BASED FRACTURE TOUGHNESS DISTRIBUTION IN EXPLOIT USE FOR STRUCTURAL INTEGRITY ASSESSMENT (Presentation Only)
Masato Yamamoto, Hisashi Takamizawa, Japan Atomic Energy Agency (JAEA), Tokai, Japan; Yoosung Ha, Japan Atomic Energy Agency (JAEA), Naka-Gun, Japan; Jinya Katsuyama, Japan Atomic Energy Agency (JAEA), Naka, Japan

SESSION 4.1L (CS-10-02)

Thursday, July 23, 8:00 am – 9:45 am, El Capitan A

RECENT DEVELOPMENTS IN CHINESE CODES AND STANDARDS - 2

Developed by: Jianfeng Shi, Zhejiang University, Hangzhou, China; Jinyang Zheng, Zhejiang University, Hangzhou, China; Guodong Jia, China Special Equipment Inspection & Research Institute, Beijing, China; Guide Deng, China Special Equipment Inspection & Research Institute, Beijing, China; Xuedong Chen, Hefei General Machinery Research Institute Co., Ltd., Hefei, China; Zhichao Fan, Hefei General Machinery Research Institute Co., Ltd., Hefei, China; Yinghua Liu, Tsinghua University, Beijing, China; Junyang Chen, Guangdong Institute of Special Equipment Inspection and Research, Foshan City, Guangdong, China

Chair: Jinyang Zheng, Zhejiang University, Hangzhou, China

Co-Chair: Steven Xu, Kinectrics, Inc., Toronto, ON, Canada

PVP2026-183486: ELASTOPLASTIC RESPONSE AND EXPLOSION-RESISTANT DESIGN METHOD OF PIPELINES UNDER INTERNAL GAS DETONATION
Liantong Fu, Yang Du, Yuanqi Liu, Jiaji Wang, Yixiao Sun, Chuang Liu, Xiaohan Zheng, China University of Petroleum, Qingdao, China

PVP2026-183511: RESEARCH ON THE MECHANISMS, PERFORMANCE OPTIMIZATION, AND LIFE PREDICTION OF MATERIAL AND STRUCTURAL FATIGUE: RECENT ADVANCES AND PROSPECTS
Zhou Fang, Jiayi Li, Jiapeng Ding, Beijing University of Chemical Technology, Beijing, China; Jiacheng Hou, Beijing Institute of Spacecraft Environment Engineering, Beijing, China

PVP2026-178254: THE CHANGES IN INSPECTION REQUIREMENTS FOR IN-SERVICE INDUSTRIAL PIPELINES IN CHINA OVER THE PAST 20 YEARS
Shao Shanshan, Xie Guoshan, CSEI, Beijing, China; Li Zhifeng, China Special Equipment Inspection & Research Institute, Beijing, China

PVP2026-179672: DEVELOPMENT STATUS OF TAW2.5 FOR PRESSURE VESSELS IN CHINESE STANDARD
Yunmeng Zhou, Kai Wang, Xiaoliang Jia, Zhiwei Chen, Ji Fang, Heyi Feng, China Special Equipment Inspection & Research Institute, Beijing, China

SESSION 4.1M (MF-33-01)

Thursday, July 23, 8:00 am – 9:45 am, El Capitan B

GENERAL PAPERS - 1

Developed by: Jessica Lam, Ontario Power Generation, Toronto, ON, Canada; Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA

Chair: Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA

Co-Chair: Jessica Lam, Ontario Power Generation, Toronto, ON, Canada

PVP2026-179827: STRATEGIC MATERIAL MANAGEMENT IN THE CLAD PIPE INDUSTRY: ENHANCING COMPETITIVENESS THROUGH PROCESS INNOVATION
Claude Bouillot, Voestalpine Böhler Welding, Bad Krozingen, Germany; Clemente Tallarico, Voestalpine Böhler Welding, Wallisellen, Switzerland

PVP2026-178977: A GENERAL OVERVIEW ON THE FABRICATION OF IMPULSIVELY LOADED VESSELS
Addison Miller, Irving Vasquez, Los Alamos National Laboratory, Los Alamos, NM, USA

SESSION 4.1N (DA-07-01)

Thursday, July 23, 8:00 am – 9:45 am, Malibu

THE DONALD S. GRIFFIN MEMORIAL SESSION ON THERMAL STRESSES AND ELEVATED TEMPERATURE DESIGN - 1/CREEP FATIGUE INTERACTION & HIGH TEMPERATURE BEHAVIOR (WITH MF-16)

Co-Sponsored by the Design & Analysis and Materials & Fabrication Technical Committees

Developed by: Qin Ma, Walla Walla University, College Place, WA, USA; Forrest Gu, Becht, Calgary, AB, Canada; Albert Segall, Pennsylvania State University, State College, PA, USA; Lorenzo Scano, S.S.I. s.r.l. - Studio Scano, Udine, Italy
Chair: Qin Ma, Walla Walla University, College Place, WA, USA
Co-Chair: Forrest Gu, Becht, Calgary, AB, Canada

PVP2026-177405: DEVELOPMENT AND VALIDATION OF A DUCTILITY-EXHAUSTION-BASED CREEP-FATIGUE EVALUATION ROUTE FOR ASME BPVC SECTION III DIVISION 5
Markian Petkov, Rolls-Royce, Derby, Derbyshire, United Kingdom; Mark Messner, Argonne National Laboratory, Plainfield, IL, USA; Mike Spindler, EDF, Gloucester, United Kingdom

PVP2026-179655: THE ALLOWABLE FLUX DENSITY OF A MOLTEN SALT SOLAR RECEIVER CONSIDERING CREEP-FATIGUE DAMAGE IN DESIGN LIFE
Haojin Wu, Sunting Yan, Ping Tang, Yonggui Chen, Zhongqiang Liu, Zhejiang Academy of Special Equipment Science, Hangzhou, China; Hao Hong, Ming Xu, Gang Wang, Shanghai Boiler Works Co., Ltd., Shanghai, China

PVP2026-176864: CREEP PERFORMANCE OF GAS METAL ARC DIRECTED ENERGY DEPOSITION GRADE 91 STEEL
Olivia DeNonno, Rachel Chase, Mary Dunbar, Sophie Hill, Daniel McConville, Josh Rouault, Jonah Klemm-Toole, Colorado School of Mines, Golden, CO, USA

PVP2026-181845: COMPREHENSIVE INVESTIGATION OF THE OPERATIONALLY RELEVANT HIGH CYCLE FATIGUE (HCF) FARLEY-TIHANGE (SWIRL PENETRATION) PHENOMENON IN THE FRAMEWORK OF THE R&D PROJECT "TEAR"
Jürgen Rudolph, Steffen Bergholz, Luciana Rudolph, Framatome, Erlangen, Bavaria, Germany; Maximilian Friedrich, Georg Veile, Stefan Weihe, Materials Testing Institute, University of Stuttgart (MPA), Stuttgart, Germany; Rudi Kulenovic, Jörg Starflinger, University of Stuttgart, Stuttgart, Germany

SESSION 4.1O (AE-01-04)

Thursday, July 23, 8:00 am – 9:45 am, Santa Monica
HYDROGEN PIPELINES - 4

Developed by: Joseph Ronevich, Sandia National Laboratories, Livermore, CA, USA
Chair: Bostjan Bezensek, Shell, Aberdeen, United Kingdom
Co-Chair: Eduard Navalles, Swerim AB, Luleå, Sweden

PVP2026-179817: EXPERIMENTAL STUDY ON THE CYCLIC PRESSURIZATION DURABILITY OF API STEEL PIPELINES IN HYDROGEN GAS ENVIRONMENTS (Presentation Only)
Jaeyeong Park, Kyung-Oh Bae, Un-Bong Baek, Korea Research Institute of Standards and Science (KRISS), Daejeon, Republic of Korea; Hyung-Seop Shin, Gyeongkuk National University, Andong, Republic of Korea

PVP2026-180240: EFFECT OF OVERLOAD ON FRACTURE RESISTANCE FOR LINE PIPE APPLICATION IN GASEOUS HYDROGEN ENVIRONMENT
Mihaela Eliza Cristea, Philippe Pierre Darcis, Tenaris, Dalmine, Italy; Sebastian Cravero, Tenaris, Campana, Argentina; Chris San Marchi, Joseph Ronevich, Sandia National Laboratories, Livermore, CA, USA

PVP2026-179272: ASSESSMENT OF FRACTURE TOUGHNESS FROM HYDROGEN PIPE BURST TESTING AND CRITICAL CRACK SIZE CHANGES IN DIFFERENT PIPE DIAMETERS AND OPERATING PRESSURES
Gery Wilkowski, Engineering Mechanics Corporation of Columbus, Upper Arlington, OH, USA; Fabian Orth, Fredrick Brust, Ken Bagnoli, Engineering Mechanics Corporation of Columbus, Columbus, OH, USA

PVP2026-180886: EFFECT OF PIPE MANUFACTURING DEFORMATION HISTORY ON HYDROGEN EMBRITTLEMENT SUSCEPTIBILITY OF X70 STEEL (Presentation Only)
Aris G. Stamou, Dimitra Giasafaki, Spyros A. Karamanos, University of Thessaly, Volos, Greece

SESSION 4.1Q (TW-01-11)

Thursday, July 23, 8:00 am – 9:45 am, Pacific A
EPRI-ASME-AWS WORKSHOP: PERFORMANCE OF WELDS IN THE ENERGY SECTOR - PART 3

Chair: John Siefert, EPRI, Charlotte, NC, USA
Co-Chair: Jorge Penso, Shell, Houston, TX, USA

Block 4.2: Thursday, July 23, 2026 (10:15 am – 12:00 pm)

SESSION 4.2A (DA-21-01)

Thursday, July 23, 10:15 am – 12:00 pm, Pacific B
DESIGN AND ANALYSIS OF HYDROGEN PRESSURE EQUIPMENT – 1 (WITH CT-20)

Co-Sponsored by the Design & Analysis and Computer Technology & Bolted Joints Technical Committees

Developed by: Bing Li, Kinectrics, Inc., Toronto, ON, Canada; Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA; Warren Brown, Integrity Engineering Solutions, Dunsborough, Australia; Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada; Forrest Gu, Becht, Calgary, AB, Canada; TJ Prewitt, Structural Integrity Associates Inc., Columbus, OH, USA
Chair: Bing Li, Kinectrics, Inc., Toronto, ON, Canada
Co-Chair: TBD

PVP2026-177450: QUALIFICATION AND CONVERSION OF A VINTAGE X52 PIPELINE FOR HYDROGEN TRANSPORT IN COMPLIANCE WITH ASME B31.12
Hamza Ez-Zaki, TRAPIL, Puteaux, France; Ayoub El Moutaouakkil, Marie Lemaitre, CETIM, Nantes, France

PVP2026-179902: ADVANCING SAFETY AND PERFORMANCE IN ONSITE HYDROGEN STORAGE: QUALIFICATION, CERTIFICATION, AND METALLURGICAL INNOVATIONS
Sylvain Pillot, Stéphane Kemgang, Florian Thebault, Pierre Martin, Vallourec, Aulnoye-Aymeries, France; Justine Bernard, Igor Turevsky, Vincent Designolle, Vallourec, Meudon, France; Andrew Cassidy, Vallourec, Houston, TX, USA

PVP2026-178362: EXTENSION OF ONE-DIMENSIONAL HYDROGEN DIFFUSION MODEL TO ACCOUNT FOR TWO-DIMENSIONAL REDISTRIBUTION EFFECTS ON THE CANDU PRESSURE TUBE OUTLET ROLLED JOINT REGION
Austin Di Iulio, Eric Nadeau, Yihai Shi, AtkinsRéalis, Mississauga, ON, Canada; Don Metzger, AtkinsRéalis/Candu Energy Inc., Mississauga, ON, Canada

PVP2026-183253: HYDRIDE GROWTH IN SMALL FLAWS DURING THERMAL AND STRESS CYCLING VIA COUPLED STRESS–DIFFUSION ANALYSIS
Yihai Shi, CANDU Energy Inc., Toronto, ON, Canada; Li Pan, CANDU Energy Inc., Mississauga, ON, Canada; Don Metzger, AtkinsRéalis/Candu Energy Inc., Mississauga, ON, Canada

SESSION 4.2B (MF-17-03)

Thursday, July 23, 10:15 am – 12:00 pm, California A
ADVANCED AND ADDITIVE MANUFACTURING AND MATERIAL TECHNOLOGIES - 3

Developed by: Paul Korinko, Savannah River National Laboratory, Aiken, SC, USA; Ana Reis, University of Porto, Porto, Portugal; Andrew Duncan, Savannah River National Laboratory, Aiken, SC, USA; Adam Cooper, Amentum, Warrington, Cheshire, United Kingdom; Sylvain Pillot, Le Creusot, Bourgogne-Franche-Comté, France; Catrin Mair-Davies, Imperial College London, London, United Kingdom; Arindam Chakraborty, Virtual Integrated Analytics Solutions (VIAS), San Jose, CA, USA; M. Kevin Mandeville Jr., DNV, Katy, TX, USA; Michael McMurtrey, Idaho National Laboratory, Idaho Falls, ID, USA; Steven Lawler, Frazer-Nash Consultancy, Burton-on-Trent, United Kingdom; Qin Ma, Walla Walla University, College Place, WA, USA

Chair: Paul Korinko, Savannah River National Laboratory, Aiken, SC, USA
Co-Chair: Ana Reis, University of Porto, Porto, Portugal

PVP2026-180180: DEVELOPMENT OF VERTICAL WELD PROCEDURES FOR FABRICATION OF COMPONENTS BY ELECTRON BEAM
Thomas Dutilleul, Robert Widdison, John Crossley, Charles Carpenter, University of Sheffield, Rotherham, United Kingdom; Marc Albert, David Gandy, EPRI, Charlotte, NC, USA

PVP2026-179942: CREEP PERFORMANCE OF THE NICKLE BASED ALLOY INCONEL 625 MANUFACTURED WITH GAS METAL ARC DIRECTED ENERGY DEPOSITION
Daniel McConville, Dominic Piccone, Mary Dunbar, Josh Rouault, Olivia DeNonno, Joseph Kleindienst, Sophia Hill, Jonah Klemm-Toole, Colorado School of Mines, Golden, CO, USA; Stephen Tate, Ben Sutton, EPRI, Charlotte, NC, USA

PVP2026-179918: CREEP PERFORMANCE OF THE NICKEL BASED ALLOY HAYNES® 244® PROCESSED WITH GAS METAL ARC DIRECTED ENERGY DEPOSITION AT 760 °C FOR POWER GENERATION APPLICATIONS
Joshua Rouault, Mary Dunbar, Dominic Piccone, Daniel McConville, Sophia Hill, Rachel Chase, Jonah Klemm-Toole, Colorado School of Mines, Golden, CO, USA; Thomas Mann, Haynes International Inc., Kokomo, IN, USA

PVP2026-180218: SAM+J: SOLID-STATE ADDITIVELY MANUFACTURED DISSIMILAR METAL TRANSITION JOINT FOR HIGH-TEMPERATURE APPLICATIONS (Presentation Only)
Zhili Feng, Yanli Wang, Wei Zhang, Yiyu (Jason) Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Haiyan Qian, GE Vernova, Windsor, CT, USA; Shanshan Hu, Xingbo Liu, West Virginia University, Morgantown, WV, USA

SESSION 4.2C (OAC-01-02)

Thursday, July 23, 10:15 am – 12:00 pm, California B
2ND AI SYMPOSIUM: SAFETY, RELIABILITY, AND RISK MANAGEMENT – 2 (WITH HT-06, OAC-03 & OAC-07)
Co-Sponsored by the Operations Applications, & Components and High Pressure Technology Technical Committees
Developed by: Alton Reich, Streamline Automation, LLC, Huntsville, AL, USA; Sarah Suffield, Pacific Northwest National Laboratory, Richland, WA, USA
Chair: Ayman Cheta, Shell, Houston, TX, USA
Co-Chair: Alton Reich, Streamline Automation, LLC, Huntsville, AL, USA

PVP2026-176929: MONITORING OF PRODUCT INTERFACES IN PIPELINE TRANSPORT SYSTEMS (Presentation Only)
Stevan Dubljevic, University of Alberta, Edmonton, AB, Canada

PVP2026-176511: ENVIRONMENTAL QUALIFICATION EQUIPMENT MANAGEMENT USING PHYSICS-BASED DIGITAL TWINS FOR NUCLEAR POWER PLANTS
Inti Abbate, Carlos Alonso, Innomerics, Pozuelo de Alarcón, Spain; Michael Mouchet, Robert Grizzi, EPRI, Charlotte, NC, USA; Miguel Calatayud, Iberdrola, Hortaleza, Spain; Cornelius Jacobus Steenkamp, CNAT, Hortaleza, Spain; Roman Cicero, Innomerics, Pozuelo De Alarcon, Spain

PVP2026-183268: INTEGRATING COMPUTER VISION AND GENERATIVE ARTIFICIAL INTELLIGENCE WITH ROBOTIC INSPECTION TO IMPROVE PRESSURE VESSEL INTEGRITY
Fei Song, Juan Alvarez, Mohammad Manzur Murshid, Ajit Mutalik, Judy Dong, Belgin Baser, Gaojing Cao, SLB, Houston, TX, USA

SESSION 4.2D (MF-06-01)

Thursday, July 23, 10:15 am – 12:00 pm, Sunset
MATERIALS AND TECHNOLOGIES FOR NUCLEAR POWER PLANTS - 1
Developed by: Yiyu (Jason) Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Xiang (Frank) Chen, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Rita Kirchhofer, Secretariat, Golden, CO, USA; Murthy Kolluri, NRG, Petten, Netherlands; Dongmei (Donna) Sun, Liburdi Group of Companies, Guelph, ON, Canada
Chair: Yiyu (Jason) Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA
Co-Chair: Dongmei (Donna) Sun, Liburdi Group of Companies, Guelph, ON, Canada

PVP2026-180006: EFFECT OF REACTOR COOLANT ENVIRONMENT ON RESISTANCE TO FATIGUE CRACK INITIATION FROM NOTCHES IN ZR 2.5NB PRESSURE TUBE MATERIALS
Cheng Liu, Jun Cui, Douglas Scarth, Kinectrics, Inc., Toronto, ON, Canada

PVP2026-183186: EXPERIMENTAL INVESTIGATION OF IMPACT-SLIDING FRETTING WEAR BETWEEN ALLOY 690 TUBES AND 316L FOREIGN OBJECTS
Jiawei Wang, Xuejian Liu, Haiben Liu, Wei Tan, Guorui Zhu, Tianjin University, Tianjin, China

PVP2026-178271: IMPROVEMENT OF WELDING RESIDUAL STRESS ANALYSIS OF MULTI-PASS WELDS BY USING OPTIMIZED HEAT INPUT FOR WELD PASS GROUPING AND COMBINED HARDENING MODEL
Hiroki Murakami, Satoshi Tadano, Takuya Ogawa, Takahiro Hayashi, Chihiro Narazaki, Toshiyuki Saito, Toshiba, Yokohama, Japan

PVP2026-183169: RE-EVALUATION OF HARDNESS CRITERIA IN NICKEL ALLOY TEMPER BEAD WELDING REPAIR OF DISSIMILAR JOINTS FOR HEAT AFFECTED ZONE (HAZ) NOTCH TOUGHNESS ASSESSMENT: MULTIMODAL INVESTIGATION INTO THE MECHANICAL PROPERTIES AND MICROSTRUCTURES OF A LOW ALLOY STEEL HAZ WITH REPAIR VIA MECHANIZED GAS TUNGSTEN ARC WELDING TEMPER BEAD
Davide Balestri, Tommaso Spadari, Marco Vicario, Luca Venudo, Francesco Feruglio, Westinghouse, Monfalcone, Italy

SESSION 4.2E (FSI-02-03)

Thursday, July 23, 10:15 am – 12:00 pm, Salinas
FLOW-INDUCED VIBRATION - 3
Developed by: Marwan Hassan, University of Guelph, Guelph, ON, Canada; Atef Mohany, Ontario Tech University, Oshawa, ON, Canada; Salim El Bouzidi, Canadian Nuclear Laboratories, Chalk River, ON, Canada
Chair: Marwan Hassan, University of Guelph, Guelph, ON, Canada
Co-Chair: Joaquin E. Moran, Stantec, Hamilton, ON, Canada

PVP2026-182630: NUMERICAL STUDY OF FLOW-INDUCED VIBRATION IN SHELL AND TUBE HEAT EXCHANGER
Yu-Wei Wang, Tian-Xiao Zhang, Zhi-Hui Liu, Jin-Yuan Qian, Zhejiang University, Hangzhou, China; Lin-Tao Wu, Wei Men, Jia-Ying Wu, Xi'an Nuclear Equipment Corporation, Xi'an, China; Wen-Qing Li, Zhejiang Academy of Special Equipment Science, Hangzhou, China

PVP2026-180025: VORTICITY SHEDDING AND AEROACOUSTIC SOURCES IN PARALLEL TRIANGULAR TUBE ARRAYS WITH VARIABLE DEPTH
Rasha Noufal, Atef Mohany, Ontario Tech University, Oshawa, ON, Canada

PVP2026-180023: STROUHAL NUMBERS AND FLOW EXCITED ACOUSTIC RESONANCE IN MIXED GEOMETRY TUBE ARRAY
Rasha Noufal, Atef Mohany, Ontario Tech University, Oshawa, ON, Canada

PVP2026-179525: THEORETICAL AND EXPERIMENTAL INVESTIGATION OF VERTICAL VIBRATION IN AIR CASTER SEISMIC ISOLATION DEVICES
Tetsunoshin Ito, Institute of Science Tokyo, Shinagawa, Japan; Mehrdad Sadeghzadeh Nazari, Institute of Science Tokyo, Meguro-ku, Japan; Kazuaki Inaba, Tokyo Institute of Technology, Meguro, Japan

SESSION 4.2F (NDE-01-01)

Thursday, July 23, 10:15 am – 12:00 pm, Monterey
EMERGING NON-DESTRUCTIVE EVALUATION AND PROGNOSTIC TECHNIQUES AND APPLICATIONS - 1 (WITH NDE-03 & NDE-04)
Developed by: Vivek Agarwal, Idaho National Laboratory, Idaho Falls, ID, USA; Min Zhang, Linde Inc., Tonawanda, NY, USA
Chair: Clay Rodery, C&S Technology LLC, League City, TX, USA
Chair: Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA

Chair: Vivek Agarwal, Idaho National Laboratory, Idaho Falls, ID, USA
Chair: Min Zhang, Linde Inc., Tonawanda, NY, USA

PVP2026-178749: DETERMINATION OF ELASTIC CONSTANTS IN CARBON FIBER REINFORCED POLYMER COMPOSITES USING TOTAL FOCUSING METHOD
Xiangting Xu, Jingwei Cheng, Xuedong Chen, Yaoyi Du, Hefei General Machinery Research Institute Co., Ltd., Hefei, China

PVP2026-175700: DIGITAL SHEAROGRAPHY BASED NON-DESTRUCTIVE EVALUATION FOR COMPOSITE OVERWRAPPED PRESSURE VESSELS: QUANTITATIVE ANALYSIS
Ange Wen, Guangdong Institute of Special Equipment Inspection and Research, Foshan City, Guangdong, China; Li Ma, Zhejiang University, Hangzhou, China; Gai Huang, Foshan Xianhu Laboratory, Foshan City, Guangdong, China

PVP2026-185386: RESEARCH ON CORROSION DEFECT CLASSIFICATION ALGORITHM FOR A MAGNETIC ADHESION WALL-CLIMBING ELECTROMAGNETIC ULTRASONIC ROBOT BASED ON YOLOV8 (Presentation Only)
Jin Guo, Yue Tan, Huasheng Hu, Shengzi Lu, Lei Wang, Guangdong Institute of Special Equipment Inspection and Research, Foshan City, Guangdong, China

SESSION 4.2G (DA-02-07)

Thursday, July 23, 10:15 am – 12:00 pm, Carmel
DESIGN AND ANALYSIS OF PIPING, PIPELINES, AND COMPONENTS - 7 (WITH DA-19)
Developed by: Chakrapani Basavaraju, US Nuclear Regulatory Commission, Rockville, MD, USA; Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada; Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA; Bing Li, Kinectrics, Inc., Toronto, ON, Canada; Clifton Vining, Worley, Houston, TX, USA
Chair: Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada
Co-Chair: Clifton Vining, Worley, Houston, TX, USA

PVP2026-178915: STRESS INTENSIFICATION FACTORS AND FLEXIBILITY FACTORS IN UNDERGROUND PIPE BRANCH CONNECTIONS
Mohan Rathinasabapathy, Fluor, Sugar Land, TX, USA; Lukas Domm, Helen Xu, Fluor, Calgary, AB, Canada; Rollins Brown, Fluor, Houston, TX, USA

PVP2026-183332: LIMITATIONS OF LINEARIZED PIPING SUPPORT MODELLING IN DYNAMIC LOADING: INSIGHTS FROM A SYSTEMATIC REVIEW AND DUAL-PLATFORM SIMULATION STUDY (Presentation Only)
Ayman Mohamed, Ahmed Moter, Basem Abdelaleem, Next Structural Integrity Inc., Burlington, ON, Canada

PVP2026-178094: STUDY OF SUPPLEMENTAL STEEL WITH APPLICATIONS IN PIPING SYSTEMS
Phillip Wiseman, AtkinsRéalis, Oak Ridge, TN, USA; Amir Partovi, AtkinsRéalis, Mississauga, ON, Canada

PVP2026-178110: STUDY OF SPRING SUPPORTS AND THEIR APPLICATIONS IN PIPING SYSTEMS
Phillip Wiseman, AtkinsRéalis, Oak Ridge, TN, USA; Amir Partovi, AtkinsRéalis, Mississauga, ON, Canada

SESSION 4.2H (DA-11-01)

Thursday, July 23, 10:15 am – 12:00 pm, San Simeon B
COMPUTATIONAL FLUID DYNAMICS IN DESIGN AND ANALYSIS - 1
Developed by: Shunji Kataoka, JGC Corporation, Yokohama, Japan; Qi Li, T.D. Williamson, Houston, TX, USA
Chair: Shane Finneran, DNV, Columbus, OH, USA
Co-Chair: Shunji Kataoka, JGC Corporation, Yokohama, Japan

PVP2026-178136: FLUID DYNAMIC ANALYSIS OF SINGLE AND MULTIHOLES FLOW ORIFICE DEPENDING ON PLATE THICKNESS
Lorenzo Rossi, Roberto Merlo, Filippo Bellagotti, Baker Hughes, Firenze, Italy

PVP2026-179943: SIMULATIONS TO SUPPORT DESIGN OF RESILIENT TRANSFORMER TANK TO INTERNAL ARCING
Ashwin Padmanaban Iyer, Didier Hamoir, SERGI Transformer Protector, Taverny, France

PVP2026-175273: SOLUTION OF UNSTEADY FLUID DYNAMIC AND ENERGY EQUATIONS FOR DIVERSE FLUID POWER ENERGY AND TECHNOLOGY APPLICATIONS AND SYSTEMS DESIGN AND CONTROL (Presentation Only)
Ramlala Sinha, Applied Engineering Consultants, Fairfax, VA, USA

PVP2026-183417: CFD ANALYSES OF FLOW IN THE FUEL CHANNEL OF CANDU REACTOR WITH FUEL AND WITHOUT FUEL USING FLOW RESTRICTOR (Presentation Only)
Reza Ghafouri-Azar, Ontario Power Generation, Pickering, ON, Canada

SESSION 4.2I (HT-02-01)

Thursday, July 23, 10:15 am – 12:00 pm, San Simeon A
STRUCTURES UNDER EXTREME LOADING CONDITIONS - 1
Developed by: Matt Edel, BakerRisk, San Antonio, TX, USA; Jihui Geng, BakerRisk, San Antonio, TX, USA; Megan Tribble, Sandia National Laboratories, Albuquerque, NM, USA; Robert Valdiviez, Applied Mechanics Engineering, LLP, Orange, CA, USA; Markus Busch, Technical University of Darmstadt, Darmstadt, Germany
Chair: Jihui Geng, BakerRisk, San Antonio, TX, USA
Co-Chair: Robert Valdiviez, Applied Mechanics Engineering, LLP, Orange, CA, USA

PVP2026-179763: HIGH-PRESSURE CALORIMETRY: THERMODYNAMIC AND KINETIC ANALYSIS FOR THE EFFICIENT DESIGN AND OPTIMIZATION OF POLYETHYLENE PROCESSES AND INITIATOR SYSTEMS
Svenja Albus, Michelle Becker, Markus Busch, Technical University of Darmstadt, Darmstadt, Germany

PVP2026-179759: USING A MINIPLANT SETUP TO INVESTIGATE INITIATOR COCKTAIL PERFORMANCE IN THE HIGH-PRESSURE ETHYLENE POLYMERISATION PROCESS
Sandra Pietrasch, Svenja Albus, Markus Busch, Technical University of Darmstadt, Darmstadt, Germany

PVP2026-176926: IMPULSIVELY LOADED VESSEL LOCAL FAILURE CRITERIA COMPARED TO CYCLIC TEST RESULTS
Joshem Gibson, Matthew Garcia, Kevin Fehlmann, Los Alamos National Laboratory, Los Alamos, NM, USA

PVP2026-179647: PREDICTION OF CRACKING AND LEAKAGE RATE IN THE APR-1400 CONTAINMENT BUILDING
Jin-Young Park, Tae-Hyun Kwon, Korea Atomic Energy Research Institute (KAERI), Yuseong-gu, Republic of Korea

SESSION 4.2J (DA-25-01)

Thursday, July 23, 10:15 am – 12:00 pm, Avila B
CRYOGENIC PRESSURE SYSTEMS FOR HYDROGEN AND OTHER FLUIDS (WITH MF-30)
Co-Sponsored by the Design & Analysis and Materials & Fabrication Technical Committees
Developed by: Ali Ok, Honeywell, Allentown, PA, USA; M. Kevin Mandeville Jr., DNV, Katy, TX, USA
Chair: M. Kevin Mandeville Jr., DNV, Katy, TX, USA
Co-Chair: Ali Ok, Honeywell, Allentown, PA, USA

PVP2026-175297: CRACK-LIKE FLAW ASSESSMENT FOR CRYOGENIC 5083-O ALUMINUM IN PRESSURE VESSEL APPLICATIONS
Michael Mazza, Ali Ok, John Dally, Honeywell, Allentown, PA, USA; John McConville, Honeywell, Palmetto, FL, USA

PVP2026-183362: MULTI-FIELD COUPLED NUMERICAL SIMULATION OF INDEPENDENT TYPE-C LNG FUEL TANKS FOR LARGE MARINE VESSELS
Shuxia Yuan, Fugui Cai, Song Wu, Jingming Li, Yaning Wang, Xi'an Shiyou University, Xi'an, China; Qiang Chen, Exa× Energy Technology (Shenzhen) Co., Ltd., Shenzhen, China

PVP2026-180107: HYDROGEN COMPATIBILITY EVALUATION OF AUSTENITIC STAINLESS STEEL SUS316L IN CRYOGENIC GASEOUS HYDROGEN ENVIRONMENT USING HOLLOW SPECIMENS (Presentation Only)
Kentaro Wada, Yoshinori Ono, Yuzuru Ito, Takashi Uchino, National Institute for Materials Science, Tsukuba-Shi, Japan

SESSION 4.2K (CS-21-01)

Thursday, July 23, 10:15 am – 12:00 pm, Avila A

PANEL SESSION: UPDATE ON INTERNATIONAL BENCHMARK FOR CODIFICATION OF CONSTRAINT EFFECTS ON FRACTURE TOUGHNESS IN THE DUCTILE-BRITTLE TRANSITION REGION FOR NUCLEAR STRUCTURAL COMPONENTS

Developed by: Kiminobu Hojo, Mitsubishi Heavy Industries, Ltd., Kobe, Japan; Steven Xu, Kinectrics, Inc., Toronto, ON, Canada; Stéphane Marie, Framatome, Paris Le Défense, France
Chair: Kiminobu Hojo, Mitsubishi Heavy Industries, Ltd., Kobe, Japan
Co-Chair: Steven Xu, Kinectrics, Inc., Toronto, ON, Canada
Panelists: Thibault Demol, Framatome, Paris La Défense, France
Kiminobu Hojo, Mitsubishi Heavy Industries, Ltd., Kobe, Japan
Valéry Lacroix, Tractebel Engie, Brussels, Belgium
Steven Xu, Kinectrics, Inc., Toronto, ON, Canada

SESSION 4.2L (CS-10-03)

Thursday, July 23, 10:15 am – 12:00 pm, El Capitan A

RECENT DEVELOPMENTS IN CHINESE CODES AND STANDARDS - 3

Developed by: Jianfeng Shi, Zhejiang University, Hangzhou, China; Jinyang Zheng, Zhejiang University, Hangzhou, China; Guodong Jia, China Special Equipment Inspection & Research Institute, Beijing, China; Guide Deng, China Special Equipment Inspection & Research Institute, Beijing, China; Xuedong Chen, Hefei General Machinery Research Institute Co., Ltd., Hefei, China; Zhichao Fan, Hefei General Machinery Research Institute Co., Ltd., Hefei, China; Yinghua Liu, Tsinghua University, Beijing, China; Junyang Chen, Guangdong Institute of Special Equipment Inspection and Research, Foshan City, Guangdong, China
Chair: Jianfeng Shi, Zhejiang University, Hangzhou, China
Co-Chair: Haiyang Qian, GE Gas Power, Avon, CT, USA

PVP2026-179783: REVIEW ON DESIGN, MANUFACTURING, TESTING AND INSPECTION TECHNOLOGIES FOR TYPE Ⅳ HYDROGEN STORAGE CYLINDERS
Xiaoxiong Lei, Jun Shi, Shilong Li, Pu Li, Wuhan Institute of Technology, Wuhan, China; Xiang Li, Jiepu Li, China Special Equipment Inspection & Research Institute, Beijing, China

PVP2026-183456: A REVIEW OF RESPONSE TIME IN HYDROGEN SENSORS
Quan Cao, Jianfeng Shi, Sheng Zeng, Jinyang Zheng, Zhaoting Chen, Zhengyu Hu, Zhejiang University, Hangzhou, China; Qiliang Wu, Min Liu, EPRI, Hangzhou, China; Fang Han, Zhejiang Guwei Technology Co., Ltd., Hangzhou, China

PVP2026-183554: A PATENT-BASED ANALYSIS OF KEY TECHNICAL CHALLENGES AND INNOVATION PATHWAYS FOR NON-METALLIC HYDROGEN PIPELINES
Ying Yi-Ming, Shi Jian-Feng, Zhejiang University, Hangzhou, China; Gao Yang, Hangzhou Intellectual Property Protection Center, Binjiang District, Hangzhou, China

PVP2026-183452: ADVANCES IN STANDARDS FOR ULTRASONIC TESTING TECHNOLOGY OF POLYETHYLENE PIPES
Yangji Tao, Cunjian Miao, Yan Shi, Shanpu Zheng, Ping Tang, Weican Guo, Haojin Wu, Weiyong Cai, Zhejiang Academy of Special Equipment Science, Hangzhou, China; Jianfeng Shi, Zhejiang University, Hangzhou, China

PVP2026-196241: STATIC-EQUIVALENT-PRESSURE-BASED DESIGN METHOD FOR PIPELINES UNDER INTERNAL GASEOUS DETONATION (Presentation Only)
Liantong Fu, Yang Du, Yuanqi Liu, Jiaji Wang, Yixiao Sun, Chuang Liu, Xiaohan Zheng, China University of Petroleum, Qingdao, China

SESSION 4.2N (MF-16-01)

Thursday, July 23, 10:15 am – 12:00 pm, Malibu

CREEP AND CREEP-FATIGUE INTERACTION - 1/CREEP ANALYSIS & MATERIAL MODELING (WITH CT-11)

Co-Sponsored by the Materials & Fabrication and Computer Technology & Bolted Joints Technical Committees

Developed by: Catrin Mair-Davies, Imperial College London, London, United Kingdom; Mark Messner, Argonne National Laboratory, Plainfield, IL, USA; Haiyang Qian, GE Gas Power, Avon, CT, USA; Yun-Jae Kim, Korea University, Seoul, Republic of Korea; Rita Kirchhofer, Secretariat, Golden, CO, USA; Frederick (Bud) Brust, Engineering Mechanics Corporation of Columbus, Columbus, OH, USA; Michael McMurtrey, Idaho National Laboratory, Idaho Falls, ID, USA
Chair: Catrin Mair-Davies, Imperial College London, London, United Kingdom
Co-Chair: Mark Messner, Argonne National Laboratory, Plainfield, IL, USA

PVP2026-179994: FINITE ELEMENT ANALYSIS AND VALIDATION OF CREEP CRACK GROWTH USING DIFFUSION-DISLOCATION CREEP MODELS
Jorge De Andres, Chamequa Rankine, Catrin Mair-Davies, Imperial College London, London, United Kingdom

PVP2026-174977: COMPARISON OF RESIDUAL STRESSES AND STRAINS IN AUTOFRETTAGED GUNS OF DIFFERENT MATERIALS SUBJECTED BAUSCHINGER AND SOFTENING EFFECTS
Abdel-Hakim Bouzid, École de Technologie Supérieure, Montreal, QC, Canada

PVP2026-179464: INVESTIGATION ON LOW CYCLE FATIGUE BEHAVIORS OF INCONEL 706 AT HIGH TEMPERATURE
Yuxuan Wang, Xuedong Chen, Yu Zhou, Zuoquan Yao, Haijun Fan, Jinming Fan, Hefei General Machinery Research Institute Co., Ltd., Hefei, China

SESSION 4.2O (AE-01-05)

Thursday, July 23, 10:15 am – 12:00 pm, Santa Monica

HYDROGEN PIPELINES - 5

Developed by: Joseph Ronevich, Sandia National Laboratories, Livermore, CA, USA
Chair: Mihaela E. Cristea, Tenaris, Dalmine, Italy
Co-Chair: Michelle Kent, Colorado School of Mines, Golden, CO, USA

PVP2026-182629: FATIGUE CRACK GROWTH AND FRACTURE INVESTIGATIONS FOR VINTAGE X65 AND MODERN X70 PIPELINE STEELS
Janne Pakarinen, Supriya Nandy, Pekka Moilanen, Elina Huttunen-Saarivirta, Pekka Pohjanne, VTT Technical Research Centre of Finland Ltd., Espoo, Finland; Joseph Ronevich, Chris San Marchi, Sandia National Laboratories, Livermore, CA, USA

PVP2026-183027: DEVELOPMENT OF SIMPLIFIED FATIGUE ASSESSMENT METHODOLOGY FOR HYDROGEN PIPELINES BASED ON ASME B31.12 CODE CASE 220
Max Holt, Benjamin Francis, Worley, Melbourne, Australia; David Mair, Worley, North Sydney, NSW, Australia

PVP2026-179172: FRACTURE TOUGHNESS OF X-SERIES PIPELINE WELDS IN HYDROGEN
Lydia Hines, Jackson McCloskey, Chen Ni, Ana Poland, Zhenzhen Yu, Colorado School of Mines, Golden, CO, USA; Matthew Connolly, May Martin, National Institute of Standards & Technology, Boulder, CO, USA; Joe Bundy, Hobart Brothers LLC, Troy, OH, USA; Andres Acuna, Lincoln Electric, Cleveland, OH, USA; Jorge Penso, Shell, Houston, TX, USA; Greg Ebel, CBMM North America, Houston, TX, USA; Ravi Menon, Anoop Samant, ESAB, Hanover, PA, USA

PVP2026-183353: MECHANICAL TESTING OF HDPE AND MDPE PIPELINE SEGMENTS IN VARYING PRESSURE, TEMPERATURE, AND GAS ENVIRONMENTS (Presentation Only)

Nalini C. Menon, Debasis Banerjee, April Nissen, Dustin Murtagh, Tanner McDonnell, Sandia National Laboratories, Livermore, CA, USA

SESSION 4.2Q (TW-01-12)

Thursday, July 23, 10:15 am – 12:00 pm, Pacific A

EPRI-ASME-AWS WORKSHOP: PERFORMANCE OF WELDS IN THE ENERGY SECTOR - PART 4

Chair: John Siefert, EPRI, Charlotte, NC, USA
Co-Chair: Jorge Penso, Shell, Houston, TX, USA

Block 4.3: Thursday, July 23, 2026 (2:00 pm – 3:45 pm)

SESSION 4.3A (AE-04-01)

Thursday, July 23, 2:00 pm – 3:45 pm, Pacific B

MATERIALS FOR CRYOGENIC HYDROGEN SERVICE - 1

Developed by: Hyun Jo Jun, ExxonMobil Technology & Engineering Company, Houston, TX, USA; Tomoya Kawabata, University of Tokyo, Bunkyo-ku, Japan
Chair: Tomoya Kawabata, University of Tokyo, Bunkyo-ku, Japan
Co-Chair: Hyun Jo Jun, ExxonMobil Technology & Engineering Company, Houston, TX, USA

PVP2026-179981: HYDROGEN ASSISTED FATIGUE AND FRACTURE OF XM-19 AND ITS WELDS AT LOW-TEMPERATURE
Quinten Yurek, Joseph Ronevich, Chris San Marchi, Sandia National Laboratories, Livermore, CA, USA

PVP2026-182841: FRACTURE MECHANICS EVALUATION OF LIQUEFIED HYDROGEN TANK BASED ON LARGE-SCALE TEST AND ANALYSIS
Takashi Hiraide, Takahiro Sakimoto, JFE Steel Corporation, Chiba-City, Japan; Daiki Maeda, University of Tokyo, Bunkyo, Japan; Tomoya Kawabata, University of Tokyo, Bunkyo-ku, Japan

PVP2026-177212: INFLUENCE OF DEFORMATION-INDUCED MARTENSITIC TRANSFORMATION ON HIGH CYCLE FATIGUE PROPERTIES OF SUS316L FOR LIQUEFIED HYDROGEN STORAGE TANKS
Joi Nakashima, University of Tokyo, Bunkyo, Japan; Shohei Uranaka, Tomoya Kawabata, University of Tokyo, Bunkyo-ku, Japan

SESSION 4.3B (MF-17-04)

Thursday, July 23, 2:00 pm – 3:45 pm, California A

ADVANCED AND ADDITIVE MANUFACTURING AND MATERIAL TECHNOLOGIES – 4 (WITH CS-29)

Co-Sponsored by the Materials & Fabrication and Codes & Standards Technical Committees

Developed by: Paul Korinko, Savannah River National Laboratory, Aiken, SC, USA; Ana Reis, University of Porto, Porto, Portugal; Andrew Duncan, Savannah River National Laboratory, Aiken, SC, USA; Adam Cooper, Amentum, Warrington, Cheshire, United Kingdom; Sylvain Pillot, Le Creusot, Bourgogne-Franche-Comté, France; Catrin Mair-Davies, Imperial College London, London, United Kingdom; Arindam Chakraborty, Virtual Integrated Analytics Solutions (VIAS), San Jose, CA, USA; M. Kevin Mandeville Jr., DNV, Katy, TX, USA; Michael McMurtrey, Idaho National Laboratory, Idaho Falls, ID, USA; Steven Lawler, Frazer-Nash Consultancy, Burton-on-Trent, United Kingdom; Qin Ma, Walla Walla University, College Place, WA, USA
Chair: Paul Korinko, Savannah River National Laboratory, Aiken, SC, USA
Co-Chair: Ana Reis, University of Porto, Porto, Portugal

PVP2026-180002: DIRECT ENERGY DEPOSITION WIRE ADDITIVE MANUFACTURING INDUSTRY PROJECT TO SUPPORT CODIFICATION FOR HIGH TEMPERATURE SERVICE
Teresa Melfi, Lincoln Electric, Fort Myers, FL, USA; John Siefert, EPRI, Charlotte, NC, USA; Ben Schaeffer, Lincoln Electric, Euclid, OH, USA

PVP2026-179644: ANALYSIS OF THE HIGH TEMPERATURE PERFORMANCE OF WIRE DIRECT ENERGY DEPOSITION (DED) MANUFACTURED ER90S-B91 WALL BUILDS
John Siefert, Pat Becker, EPRI, Charlotte, NC, USA; Teresa Melfi, Ben Schaeffer, Lincoln Electric, Euclid, OH, USA

PVP2026-174899: STRESS RISER EFFECTS ON FATIGUE BEHAVIORS OF 316L DED AND PBF AM SPECIMENS
Natalie Wieber, Savannah River National Laboratory, Aiken, SC, USA; Pingsha Dong, University of Michigan, Ann Arbor, MI, USA; George Rawls, GBR Consulting, Aiken, SC, USA

PVP2026-183182: FINITE ELEMENT ANALYSIS OF THE PERFORMANCE OF AN ADDITIVE MANUFACTURED GRADIENT COMPOSITE TRANSITION JOINT UNDER THERMAL AND CREEP LOADING
Chang Yang, Liming Xiong, North Carolina State University, Raleigh, NC, USA; Wei Zhang, Zhili Feng, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Xingbo Zhu, West Virginia University, Morgantown, WV, USA; Chelsea Qian, Avon High School, Avon, CT, USA

SESSION 4.3C (DA-23-01)

Thursday, July 23, 2:00 pm – 3:45 pm, California B

2ND AI SYMPOSIUM: AI FOR THE DESIGN AND ANALYSIS OF PRESSURE VESSELS AND PIPING - 1 (WITH DA-01)

Developed by: Ali Ok, Honeywell, Allentown, PA, USA; Maher Y.A. Younan, The American University in Cairo, Cairo, Egypt; M. Kevin Mandeville Jr., DNV, Katy, TX, USA; Sean Peters, DeepMechanix, Santa Monica, CA, USA
Chair: Aman Thakkar, DeepMechanix, San Jose, CA, USA
Co-Chair: Maher Y.A. Younan, The American University in Cairo, Cairo, Egypt

PVP2026-175407: AN EFFICIENT ANALYSIS AND OPTIMIZATION DESIGN METHOD FOR PRESSURE VESSEL BASED ON REDUCED-ORDER MODEL
Zijian Zhang, Yu Zhou, Xuedong Chen, Zhichao Fan, Zheng Niu, Hefei General Machinery Research Institute Co., Ltd., Hefei, China

PVP2026-179003: PHYSICS-INFORMED AI FOR REAL-TIME STRUCTURAL INTEGRITY ASSESSMENT OF PRESSURE VESSELS
Benedikt Engel, Ryan Lye, William Lavie, Andrew Morris, Ben Osborne, MatAlytics Ltd, Nottingham, United Kingdom

PVP2026-179395: DEVELOPMENT OF AN INTELLIGENT AGENT FOR DESIGNING EXTERNAL PRESSURE VESSELS
Huicong Tong, Zewu Wang, Zheng Wang, Hao Wu, Dalian University of Technology, Dalian, China

PVP2026-196240: ACCELERATING EQUIPMENT DESIGN AND VALIDATION WITH INTEGRATED CROSS-DOMAIN PHYSICS, DIGITAL LIFECYCLE AND SYSTEMS ENGINEERING (Presentation Only)
Shivdeep Gaagat, Siemens Digital Industries Software, Chatillon, France; Ravi Aglave, Siemens Digital Industries Software, Houston, TX, USA

SESSION 4.3D (MF-06-02)

Thursday, July 23, 2:00 pm – 3:45 pm, Sunset

MATERIALS AND TECHNOLOGIES FOR NUCLEAR POWER PLANTS - 2

Developed by: Yiyu (Jason) Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Xiang (Frank) Chen, Oak Ridge National Laboratory, Oak Ridge, TN, USA; Rita Kirchhofer, Secretariat, Golden, CO, USA; Murthy Kolluri, NRG, Petten, Netherlands; Dongmei (Donna) Sun, Liburdi Group of Companies, Guelph, ON, Canada
Chair: Dongmei (Donna) Sun, Liburdi Group of Companies, Guelph, ON, Canada
Co-Chair: Yiyu (Jason) Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA

PVP2026-182492: ACQUISITION OF HIGH-TEMPERATURE FATIGUE PROPERTIES USING MINIATURE SPECIMENS OF 316 FR STEEL AND MODIFIED 9 CR-1 MO STEEL BASE METAL

Yuya Imagawa, Hayato Yamashita, Japan Atomic Energy Agency (JAEA), Oarai, Japan; Kodai Toyota, Japan Atomic Energy Agency (JAEA), Higashi-Ibaraki, Japan; Takashi Onizawa, Japan Atomic Energy Agency (JAEA), Oarai-Machi Higashi-Ibaraki-Gun, Japan; Yuji Takamori, Ryowa Industry Co., Ltd, Shibuya-ku, Japan; Kazuhiro Kodama, Ascend Co., Ltd., Tokai, Japan

PVP2026-179975: APPLICABILITY OF EXISTING EMBRITTLEMENT TREND EQUATIONS TO EMBRITTLEMENT RESULTS OF THE EUROPEAN RESEARCH PROJECT STRUMAT-LTO
Petra Klatovská, ÚJV Řež, a. s., Prague, Czech Republic; Oliver Martin, European Commission - Joint Research Center, Petten, Netherlands; Ferenc Gillemot, HUN-REN, Budapest, Hungary; Murthy Kolluri, NRG, Petten, Netherlands; Maksym Zarazovskii, IPP-Centre LLC, Kyiv, Ukraine

PVP2026-180047: CORROSION RESISTANT WELD OVERLAY FOR NUCLEAR COMPONENTS
Dongmei (Donna) Sun, Liburdi Group of Companies, Guelph, ON, Canada; Rob Pistor, Liburdi Group of Companies, Dundas, ON, Canada

PVP2026-175990: EFFECTS OF MICROALLOYING ELEMENTS ON THE STRENGTH AND WELDABILITY OF SA738 GR. B STEEL FOR NUCLEAR CONTAINMENT VESSELS (Presentation Only)
Seong Ho Hong, Donghyun Yoon, Jaehwan Kim, Junseok Seo, Seunghwan Chon, Hyundai Steel, Dangjin-si, Republic of Korea

SESSION 4.3E (FSI-02-04)

Thursday, July 23, 2:00 pm – 3:45 pm, Salinas
FLOW-INDUCED VIBRATION - 4

Developed by: Marwan Hassan, University of Guelph, Guelph, ON, Canada; Atef Mohany, Ontario Tech University, Oshawa, ON, Canada; Salim El Bouzidi, Canadian Nuclear Laboratories, Chalk River, ON, Canada
Chair: Joaquin E. Moran, Stantec, Hamilton, ON, Canada
Co-Chair: Itsuro Hayashi, Chiyoda Corporation, Yokohama, Japan

PVP2026-179997: A SIMULATION-DRIVEN WORKFLOW FOR RAPID FLUID-INDUCED VIBRATION ASSESSMENT: FROM STEADY RANS TO LOW-ORDER DYNAMIC MODELS
Akane Uemichi, Yamaguchi University, Ube, Japan; Yuto Araki, Shigehiko Kaneko, University of Tokyo, Bunkyo, Japan; Ryota Imai, Fumiya Nakao, Waseda University, Shinjuku-ku, Japan

PVP2026-183885: MODELING SQUEEZE FILM DAMPING IN LATERAL IMPACTS OF NUCLEAR FUEL ASSEMBLIES
Charbel Habchi, Travis Bowman, Ammon Black, Berenger D'uston, Framatome, Lynchburg, VA, USA

PVP2026-180072: SIMULATIONS OF FUEL BUNDLES
Hossameldin Ali, Marwan Hassan, University of Guelph, Guelph, ON, Canada; Atef Mohany, Ontario Tech University, Oshawa, ON, Canada

PVP2026-180565: ENERGY HARVESTING FROM VORTEX-INDUCED VIBRATIONS: EXPERIMENTS AND LOW ORDER MODELLING (Presentation Only)
Francisco Huera-Huarte, Universitat Rovira i Virgili, Cambrils, Spain

SESSION 4.3H (CT-08-01)

Thursday, July 23, 2:00 pm – 3:45 pm, San Simeon B
NEW AND EMERGING METHODS OF ANALYSIS AND APPLICATIONS – 1 (WITH CT-02, DA-11 & FSI-01)

Co-Sponsored by the Computer Technology & Bolted Joints, Design & Analysis, and Fluid-Structure Interaction Technical Committees

Developed by: Young Ho Park, New Mexico State University, Las Cruces, NM, USA; Yasumasa Shoji, YS Corporation LLC, Mushashino, Japan; Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada; Don Metzger, AtkinsRéalis/Candu Energy Inc., Mississauga, ON, Canada; Saeed Behseresht, New Mexico State University, Las Cruces, NM, USA
Chair: Young Ho Park, New Mexico State University, Las Cruces, NM, USA
Co-Chair: Saeed Behseresht, New Mexico State University, Las Cruces, NM, USA

PVP2026-179687: RESEARCH ON AN INTEGRATED MONITORING AND PERCEPTION SYSTEM FOR PIPELINE CRITICAL POINTS ABSTRACT
Tianyu Weng, Zhejiang Key Laboratory of Special Equipment Safety Technology, Hangzhou, China; Jun Wang, Xiaolin Chen, Yonggui Chen, Sunting Yan, Zhejiang Academy of Special Equipment Science, Hangzhou, China; Wei-Liang Pan, Zhejiang University, Hangzhou, China

PVP2026-179431: STRUCTURAL INTEGRITY ASSESSMENT OF AP1000 REACTOR PRESSURE VESSEL UNDER PRESSURIZED THERMAL SHOCK VIA COUPLED CFD-FEM ANALYSIS
Xuejin Ou, Dong Wang, Kai Lu, Fuzhou University, Fuzhou, China

PVP2026-182498: AN OPTIMIZATION METHODOLOGY FOR CURVED GATE STRUCTURAL PARAMETERS OF STEAM ISOLATION VALVE BASED ON TRANSIENT DYNAMIC CHARACTERISTICS
Zhang-Yong Jin, Fang-Na Xiang, Yu-Wei Wang, Zhi-Hui Liu, Jin-Yuan Qian, Zhejiang University, Hangzhou, China; Xue-Jiao Hong, SUFA Technology Industry Co., Ltd., Suzhou, China

PVP2026-180187: ASME AND API PRESSURE RELIEF VALVE SIZING METHODS - SIMILARITIES AND DIFFERENCES
Tran Thai, Stan George, TC Energy Ltd, Houston, TX, USA

SESSION 4.3N (MF-07-01)

Thursday, July 23, 2:00 pm – 3:45 pm, Malibu
CODE FATIGUE DESIGN CRITERIA AND ENVIRONMENTAL EFFECTS - 1/THERMAL FATIGUE & THERMAL STRESS EFFECTS (WITH CS-16 & DA-07)

Co-Sponsored by the Materials & Fabrication, Codes & Standards, and Design & Analysis Technical Committees

Developed by: Seiji Asada, Mitsubishi Heavy Industries, Ltd., Kobe, Japan; Thomas Damiani, EPRI, Palo Alto, CA, USA
Chair: Thomas Damiani, EPRI, Palo Alto, CA, USA
Co-Chair: Seiji Asada, Mitsubishi Heavy Industries, Ltd., Kobe, Japan

PVP2026-183072: A THERMAL STRIPING EVALUATION METHODOLOGY CONSIDERING CORE OUTLET FLOW MIXING AND FREE SODIUM SURFACE FLUCTUATION
Heqin Xu, Shafiq Bhuiyan, Saradhi Koneru, TerraPower LLC, Bellevue, WA, USA

PVP2026-179835: EFFECTS OF EXTERNAL LOADING AND CONSTRAINT CONDITIONS ON THERMAL FATIGUE DAMAGE BEHAVIOR OF SIMULATED PIPING SPECIMENS
Jin-Weon Kim, Soo Young Lee, Chosun University, Gwangju, Republic of Korea; Yun-Jae Kim, Korea University, Seoul, Republic of Korea; Tae-Soon Kim, Korea Hydro & Nuclear Power, Daejeon, Republic of Korea

PVP2026-180129: THERMAL FATIGUE LIFE EVALUATION OF SIMULATED PIPING SPECIMEN TEST
Shin-Je Park, Yun-Jae Kim, Korea University, Seoul, Republic of Korea; Soo Young Lee, Jin-Weon Kim, Chosun University, Gwangju, Republic of Korea; Tae Soon Kim, Central Research Institute, Korea Hydro & Nuclear Power Co., Ltd, Daejeon, Republic of Korea

PVP2026-175084: THERMAL MOVING BOUNDARY RATCHETING IN HIGH TEMPERATURE APPLICATIONS
Reza Adibi-Asl, Nergx, Toronto, ON, Canada

SESSION 4.3Q (TW-01-13)

Thursday, July 23, 2:00 pm – 3:45 pm, Pacific A
EPRI-ASME-AWS WORKSHOP: PERFORMANCE OF WELDS IN THE ENERGY SECTOR - PART 5

Chair: John Siefert, EPRI, Charlotte, NC, USA
Co-Chair: Jorge Penso, Shell, Houston, TX, USA

Block 4.4: Thursday, July 23, 2026 (4:15 pm – 6:00 pm)

SESSION 4.4A (AE-04-02)

Thursday, July 23, 4:15 pm – 6:00 pm, Pacific B

MATERIALS FOR CRYOGENIC HYDROGEN SERVICE - 2

Developed by: Hyun Jo Jun, ExxonMobil Technology & Engineering Company, Houston, TX, USA; Tomoya Kawabata, University of Tokyo, Bunkyo-ku, Japan
Chair: Hyun Jo Jun, ExxonMobil Technology & Engineering Company, Houston, TX, USA
Co-Chair: Tomoya Kawabata, University of Tokyo, Bunkyo-ku, Japan

PVP2026-183406: DEVELOPMENT OF TESTING FACILITIES FOR EVALUATING THE MECHANICAL PROPERTIES OF MATERIALS IN LIQUEFIED HYDROGEN AND LOW-TEMPERATURE HYDROGEN GAS ENVIRONMENTS (Presentation Only)
Yoshinori Ono, Kentaro Wada, Hayato Terada, Mana Fukuda, Masayuki Komatsu, Tetsumi Yuri, Toshio Ogata, Masao Hayakawa, Hideki Katayama, Masaaki Hibi, Tadashi Shimizu, National Institute for Materials Science, Tsukuba, Japan

PVP2026-177251: DEVELOPMENT OF A MICROSTRUCTURAL TRAP-CONCENTRATION RELATIONSHIP FOR AUSTENITIC STAINLESS STEELS IN CRYOGENIC HYDROGEN ENVIRONMENT
Tae-Song Han, Nam-Su Huh, Seoul National University of Science and Technology, Seoul, Republic of Korea; Seung-Gun Lee, Korea Institute of Materials Science, Changwon-si, Republic of Korea

SESSION 4.4B (AE-07-06)

Thursday, July 23, 4:15 pm – 6:00 pm, California A

PANEL SESSION: KNOWLEDGE GAPS IN ENGINEERING OF CRITICAL INFRASTRUCTURE FOR HYDROGEN COMPATIBILITY

Developed by: Chris San Marchi, Sandia National Laboratories, Livermore, CA, USA; Robert Wheeler, DNV, Dublin, OH, USA
Chair: Chris San Marchi, Sandia National Laboratories, Livermore, CA, USA
Co-Chair: Ashley Kroon, PRCI, Chantilly, VA USA
Panelists: Kang Xu, Linde Inc., Tonawanda, NY, USA
Paolo Bortot, Tenaris, Dalmine, Italy
Steve Hoffman, Air Products, Santa Clara, CA, USA
Greg Pioszak, ExxonMobil Technology & Engineering Company, Houston, TX, USA
Neil Gallon, Rosen Group, Newcastle Upon Tyne, United Kingdom
Kevin Nibur, HyPerformance Materials Testing, LLC, Bend, OR, USA

SESSION 4.4C (DA-23-02)

Thursday, July 23, 4:15 pm – 6:00 pm, California B

2ND AI SYMPOSIUM: AI FOR THE DESIGN AND ANALYSIS OF PRESSURE VESSELS AND PIPING - 2 (WITH DA-08)

Developed by: Ali Ok, Honeywell, Allentown, PA, USA; Maher Y.A. Younan, The American University in Cairo, Cairo, Egypt; M. Kevin Mandeville Jr., DNV, Katy, TX, USA; Sean Peters, DeepMechanix, Santa Monica, CA, USA
Chair: Shivdeep Gaagat, Siemens Digital Industries Software, Châtillon, France
Co-Chair: Sean Peters, DeepMechanix, Santa Monica, CA, USA

PVP2026-183425: DESIGN OPTIMIZATION FOR NOZZLE LOAD FINITE ELEMENT ANALYSIS USING MACHINE LEARNING
Stephane Cote, Guillaume De Grandpre, Bentley Systems, Quebec, QC, Canada; Sudip Ganguly, Bentley Systems, Kolkata, India; Dylan Wichman, Bentley Systems, Billings, MT, USA

PVP2026-183078: BRIDGING LENGTHSCALES IN MATERIALS MODELLING -THE APPLICATION OF SURROGATE MODELLING TO INTEGRITY ASSESSMENT
David Knowles, Anastasia Vasileiou, University of Manchester, Manchester, United Kingdom; Sina Safari, Paul Wilcox, Nicolò Grilli, Christopher Truman, University of Bristol, Bristol, United Kingdom; Mahmoud Mostafavi, Monash University, Melbourne, Australia

PVP2026-185541: AUTONOMOUS GENERATION OF EQUIPMENT AND PIPING SYSTEM LAYOUTS WITH ROUTING OPTIMIZATION
Harleen Kaur Sandhu, Nicholas Cole Crowder, Peter Anton Suyderhoud, Adam Pluth, Samantha Thueson, Idaho National Laboratory, Idaho Falls, ID, USA; Abhinav Gupta, North Carolina State University, Raleigh, NC, USA

PVP2026-179723: STANDARDS-AWARE BENCHMARKING OF LLM-BASED SYSTEMS FOR PRESSURE VESSEL DESIGN AND ANALYSIS
Mahdi Naderinejad, Aman Thakkar, Radhen Patel, DeepMechanix, San Jose, CA, USA

SESSION 4.4Q (TW-01-14)

Thursday, July 23, 4:15 pm – 6:00 pm, Pacific A

EPRI-ASME-AWS WORKSHOP: PERFORMANCE OF WELDS IN THE ENERGY SECTOR - PART 6

Chair: John Siefert, EPRI, Charlotte, NC, USA
Co-Chair: Jorge Penso, Shell, Houston, TX, USA

POSTERS

Posters are an additional way to present work to the pressure vessel and piping community. A poster area is being included in our exhibit area in the California Promenade and will be open throughout the day on Monday, July 20 and Tuesday, July 21. The following posters have been accepted for PVP 2026.

PVP2026-177125: ELASTIC AND VISCOPLASTIC MODELING: A COMPARATIVE STUDY FOR MSR COMPONENTS (Poster)
Francesca Bennett, Ramesh Rajasekaran, Hsu-Kuang Ching, Haley Barsa, David Bankston, TerraPower LLC, Bellevue, WA, USA

PVP2026-187299: SEISMIC CONTROL PERFORMANCE OF STRUCTURES EQUIPPED WITH ACTIVE VARIABLE INERTER-BASED TUNED MASS DAMPERS (Poster)
Chang-Ching Chang, National Center for Research on Earthquake Engineering, Taipei, Taiwan; Jer-Fu Wang, National United University, Taipei, Taiwan

PVP2026-193392: FIELD EVALUATION OF INTERNAL CORROSION MITIGATION STRATEGIES IN HIGH-PRESSURE WATER HANDLING SYSTEMS (Poster)
Abdullah Alhajiri, Kuwait Gulf Oil Company, Ahmedi, Kuwait

PVP2026-194531: MIXED METAL WELD DEVELOPMENT (Poster)
Paul Korinko, Chase Marzullo, Tamaral Bussey, Savannah River Site, Aiken, SC, USA

PVP2026-197222: NUMERICAL INVESTIGATION OF CONTAINMENT LINER PLATE FRACTURE BEHAVIOR USING XFEM UNDER ULTIMATE INTERNAL PRESSURE (Poster)
Do-Yeon Kim, Tae-Hyun Kwon, Korea Atomic Energy Research Institute (KAERI), Daejeon, Republic of Korea

REVIEWERS

Reviewers are vital for the quality and success of the Conference Technical Program. The Conference Organizers would like to acknowledge the many Reviewers who donated their time and expertise to PVP2026. Their contributions are very much appreciated.

Abdelgalil, Abdelgader
Abirov, Rustam
Adamech, Marek
Adibi-Asl, Reza
Agnani, Milan
Allam, Raaid
Altstadt, Steven
Amano, Toshihiko
Ancelet, Olivier
Antaal, Bikram
Antonucci, Carly
Asada, Seiji
Asayama, Tai
Audrain, Margaret
Aversano, Gabriel
Azuma, Kisaburo
Babál, Cyril
Baek, Un Bong
Baird, Bradey
Bansal, Gaurav
Barron, Kathleen
Barua, Bipul
Basavaraju, Chakrapani
Bass, Joseph
Bausman, Anita
Behseresht, Saeed
Beirnaert, Gwennaël
Belfroid, Stefan
Berry, Alexander
Bezdikian, Georges
Bezensek, Bostjan
Bhattacharjee, Rishiraj
Bhattacharya, Anindya
Bifano, Michael
Bilello, Michael
Blanks, Daniel
Bogosian, David
Bortot, Paolo
Brandes, Matthew
Briottet, Laurent
Brodzinski, Richard
Brongers, Michiel
Broussard, John
Brown, Warren
Brust, Frederick (Bud)
Buck, Zachary
Burkardt, Markus
Busch, Markus
Cary, Chris
Chandra, Ashwini
Chang, Jinghuan
Cheepu, Murali Mohan
Chen, Xiang (Frank)
Chen, Xuedong
Chen, Yu
Cheng, Jingwei
Cheong, Ian Ty
Cheta, Ayman
Chikhaliya, Kamlesh
Ching, Hsu-Kuang
Chinnaraj, Premkumar
Chitose, Keiko
Cho, Lawrence
Cicero, Sergio
Cohn, Marvin
Colwell, Richard
Cooper, Adam
Cornelissen, Philip
Coules, Harry
Courtin, Stephan
Cravero, Sebastian
Cristea, Mihaela Eliza
Cuglietta, Mark
Daflon, Thiago
Damiani, Thomas
Damm, Buddy
Dandekar, Akshay
Daniels, Brian
Darby, Roy
Darwish, Sameh
Davies, Catrin Mair
Davis, Bradley
De Agostinis, Massimiliano
De Castro Marangone, Fabio
De Haan -De Wilde, Ciska
De Jesus, Abílio
De La Roca, Leonardo
De Oliveira, Henrique
Demol, Thibault
Deng, Guide
Dewees, Dave
Ding, Ju
Distel, Alex
Doddihal, Preeti
Dolan, Michael F.
Doremus, Luc
Duan, Xinjian
Duan, Zhixiang
Dudley, Mark
Dulieu, Pierre
Dyson, Christopher
Ebrahimi, Kaveh
Edel, Matthew
Elhelaly, Amro
Elkhider, Abd Elmajeed
Elliott, Lindsey
Eslaminejad, Ashkan
Fan, Xuesong
Farani Sani, Hossein
Feenstra, Paul
Findlan, Shane
Findley, Kip
Fini, Stefano
Finneran, Shane
Fitzpatrick, James
Ford, Mike
Francis, Daniel
Fuhr, Kevin
Fukasawa, Tsuyoshi
Furuya, Osamu
Gadelhak, Ibrahim
Ganguly, Sudip
Ganhao Birrento, Luis Alberto
Garlock, Stephen
Gawande, Kshitij
Geng, Jihui
Gibson, Joshem
Gillemot, Ferenc
Girão, Carlos D
Glunt, Nate
Gomes, Carlos Eduardo
Gordon, Matthew
Goyder, Hugh
Gray, Mark
Gui, Feng
Guo, Xiaolu
Gutkin, Leonid
Ha, Yoosung
Habib, Maki
Hadj-Nacer, Mustafa
Hakimian, Soroosh
Hall, J Brian
Hallman, Richard
Hamakawa, Hiromitsu
Hammad, Omar
Han, Zenghu
Hara, Kensuke
Hasegawa, Kunio
Hassan, Marwan
Hayashi, Itsuro
Hernandez Soto, Ricardo
Hioe, Yunior
Hirano, Akihiko
Hirota, Takatoshi
Hoelzl, Reinhold
Hojo, Kiminobu
Huang, Yifan
Hufnagel, Stefan
Huggins-Gonzalez, Angeire
Huh, Nam-Su
Huttunen-Saarivirta, Elina
Iftikhar, Syed Haris
Ito, Tomohiro
Iyer, San
Iyer, Santosh
Jamalyaria, Ebadollah
James, Peter
Jaske, Carl
Javanaud, Stéphane
Jeon, Sang Koo
Jessup, William
Jetter, Robert
Ji, Beilei
Ji, Rigelesaiyin
Jia, Xiaoliang
Jiang, Hao
Jie, Liu
Jin, Hyun Woo
Juengert, Anne
Jun, Hyun Jo
Jyrkama, Mikko
Kadooka, Kevin
Kai, Satoru
Kaida, Takuyo
Kalyanam, Sureshkumar
Kang, Hwansung
Karamanos, Spyros
Karpanan, Kumarswamy
Kataoka, Shunji
Katusyama, Jinya
Kawabata, Tomoya
Keating, Robert
Kee, Jamie
Keltjens, Jan
Kent, Michelle
Khalil, Kareem
Kilambi, Sreelatha
Kirchhofer, Rita
Klymyshyn, Nicholas
Kobayashi, Takashi
Kobayashi, Wataru
Koide, Yuichi
Kopriva, Radim
Korinko, Paul
Kral, Milo
Kuang, Wenbin
Kulkarni, Sanket
Lacroix, Valéry
Lam, Jessica
Lamborn, Lyndon
Lang, Scott
Leboeuf, Andrew
Lee, Sam (Kwok Lun)
Lejeune, Hubert
León-Cázares, Fernando Daniel
Li, Bing
Li, Qi
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TOPIC ORGANIZERS

Topic Organizers perform an essential function in developing technical sessions; including the encouragement and screening of abstract submittals, facilitating the paper review process, and ultimately the organization and conduct of sessions at the conference. On occasion, with the merging of individual papers into sessions some topics may not appear in the final conference program. Nonetheless, those organizers have provided an important service for the conference. A complete listing of topic organizers is provided below, along with their respective topics. The Conference Organizers would like to thank them for their contributions

ADVANCED ENERGY [AE]
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AE-02 High Pressure Hydrogen Equipment
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AE-03 Hydrogen Facilities and Piping
Bostjan Bezensek, Shell Global Solutions UK, Aberdeen, United Kingdom
TJ Prewitt, Structural Integrity Associates Inc., Columbus, OH, USA
AE-04 Materials for Cryogenic Hydrogen Service
Hyun Jo Jun, ExxonMobil Technology & Engineering Co., Houston, TX, USA
Tomoya Kawabata, University of Tokyo, Bunkyo-Ku, Japan
AE-05 Hydrogen Production and End-use Components
Hyun Jo Jun, ExxonMobil Technology & Engineering Co., Houston, TX, USA
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AE-06 Non-metallics for Hydrogen Service
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Kevin Simmons, Pacific Northwest National Laboratory, Richland, WA, USA
AE-07 Material Testing for Hydrogen Service
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CODES AND STANDARDS [CS]
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Steven Xu, Kinectrics, Inc., Toronto, ON, Canada
CS-02 Hydrogen Effects on Material Behavior for Structural Integrity Assessment (Joint with M&F)
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Michael Martin, Rolls-Royce, Portsmouth, United Kingdom
David Cho, Bruce Power, Toronto, ON, Canada
Jinyang Zheng, Zhejiang University, Hangzhou, China
CS-04 Integrity of Reactor Pressure Vessels and Internals for Codes
Kiminobu Hojo, Mitsubishi Heavy Industries Ltd., Kobe, Japan
Russell Cipolla, Intertek AIM, Santa Clara, CA, USA
CS-06 API 579/ASME Code Fitness-for-Service Activities
Phillip Prueter, Consultant, Moreland Hills, OH, USA
Steven Xu, Kinectrics, Inc., Toronto, ON, Canada
CS-07 Recent Developments in ASME Codes and Standards
Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA
Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA
Mark Messner, Argonne National Laboratory, Plainfield, IL, USA
CS-08 ASME Code Section XI Activities
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Daniel Miro-Quesada, ASME, New York, NY, USA
Douglas Scarth, Kinectrics, Inc., Toronto, ON, Canada
CS-09 Recent Developments in Japanese Codes and Standards
Seiji Asada, Mitsubishi Heavy Industries Ltd., Kobe, Japan
Naoki Miura, Central Research Institute of Electric Power Industry (CRIEPI), Yokosuka, Japan
CS-10 Recent Developments in Chinese Codes and Standards
Jianfeng Shi, Zhejiang University, Hangzhou, China
Jinyang Zheng, Zhejiang University, Hangzhou, China
Guodong Jia, China Special Equipment Inspection & Research Institute, Beijing, China
Guide Deng, China Special Equipment Inspection & Research Institute, Beijing, China
Xuedong Chen, Hefei General Machinery Research Institute, Hefei, China
Zhichao Fan, Hefei General Machinery Research Institute, Hefei, China
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Junyang Chen, Guangdong Institute of Special Equipment Inspection and Research, Foshan, China
CS-11 Recent Developments in European Codes and Standards
Peter James, Amentum, Warrington, United Kingdom
Valéry Lacroix, Tractebel Engie, Brussels, Belgium
John Sharples, Amentum, Warrington, United Kingdom
Claude Faidy, CF Integrity Engineering, Tassin-la-Demi-Lune, France
CS-12 High Temperature Codes and Standards
Anees Udyawar, Westinghouse Electric Company, Cranberry Twp, PA, USA
Valéry Lacroix, Tractebel Engie, Brussels, Belgium
Sureshkumar Kalyanam, Batelle, Columbus, OH, USA
CS-13 Developments in HDPE, Buried and Non-metallic Pipe Codes and Standards
Jianfeng Shi, Zhejiang University, Hangzhou, China
Sureshkumar Kalyanam, Batelle, Columbus, OH, USA
Cheng Liu, Kinectrics, Inc., Toronto, ON, Canada
CS-15 Mechanical properties of nuclear graphite and their implementation in codes and standards (Joint with M&F)
Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA
David Rudland, Rudland Consulting, Frederick, MD, USA
Steven Xu, Kinectrics, Inc., Toronto, ON, Canada
Sureshkumar Kalyanam, Batelle, Columbus, OH, USA
Joseph Bass, US Nuclear Regulatory Commission, Rockville, MD, USA
CS-16 Fatigue and Ratcheting Issues in Pressure Vessel and Piping Design
Wolf Reinhardt, AtkinsRéalis / SNC Lavalin Nuclear/Candu Energy Inc., Mississauga, ON, Canada
Reza Adibi-Asl, Nergx, Toronto, ON, Canada
Wanhua (Carol) Liang, AtkinsRéalis, Mississauga, ON, Canada
CS-17 Environmental Fatigue Issues (Joint with M&F)
Seiji Asada, Mitsubishi Heavy Industries Ltd., Kobe, Japan
Thomas Damiani, EPRI, Palo Alto, CA, USA
CS-18 Fatigue Monitoring and Related Assessment Method
Jürgen Rudolph, Framatome GmbH, Erlangen, Germany

Timothy Gilman, Structural Integrity Associates Inc., San Jose, CA, USA

CS-19 Fracture Toughness and Other Small Specimen Mechanical Properties (Joint with M&F)

Mark Kirk, Phoenix Engineering Associates Inc., Claremont, NH, USA
Masato Yamamoto, Japan Atomic Energy Agency (JAEA), Tokai, Ibaraki, Japan
William Server, Consultant, Black Mountain, NC, USA
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CS-20 Master Curve Method and Applications

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CS-21 Constraint Effects on C&S

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Steven Xu, Kinectrics, Inc., Toronto, ON, Canada
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CS-22 Repair, Replacement and Mitigation for Fitness-for-Service Rules

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CS-23 Improvement of Flaw Characterization Rules for FFS

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Martin Negyesi, Technical University of Ostrava, Ostrava, Czech Republic

CS-24 Probabilistic and Risk-Informed Methods for Structural Integrity Assessment (Joint with M&F)

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David Rudland, Rudland Consulting, Frederick, MD, USA
Yinsheng Li, China National Nuclear Corporation, Naka-Gun, Japan
Cheng Liu, Kinectrics, Inc., Toronto, ON, Canada

CS-25 Fatigue and Fracture Assessment & Management – A Probabilistic Perspective

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Anees Udyawar, Westinghouse Electric Company LLC, Cranberry Township, PA, USA

CS-26 Advanced Seismic Evaluation and Code (Joint with SE-08)

Kiminobu Hojo, Mitsubishi Heavy Industries Ltd., Kobe, Japan
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Izumi Nakamura, Tokyo City University, Setagata, Japan

CS-27 Materials surveillance for High Temperature reactors

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Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA

CS-28 AI Symposium: Applications of AI in Codes and Standards

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CS-29 C&S for Additive Manufacturing

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COMPUTER TECHNOLOGY AND BOLTED JOINTS [CT]

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CT-01 Design and Analysis of Bolted Flange Joints

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CT-02 Packings and Valves

Hubert Lejeune, CETIM, Nantes, France
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CT-03 Leak Tightness and Fugitive Emissions

Carlos Daniel Girão Barroso, Teadit, Itatiba, Brazil
Satoshi Nagata, Toyo Engineering Corporation, Narashino, Japan
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CT-04 Assembly of Bolted Joints

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Linbo Zhu, Xi'an Jiaotong University, Xi'an, China
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Mark Johnson, Integra Technologies, Overland Park, KS, USA

CT-05 Threaded Fasteners

Massimiliano De Agostinis, University of Bologna, Bologna, Italy
Christopher Dyson, ROCOL, A Division of ITW Limited, Leeds, West Yorkshire, United Kingdom
Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada

CT-06 Elevated Temperature Behavior of Bolted Flange Joints

Yasumasa Shoji, YS Corporation LLC, Mushashino, Japan
Soroosh Hakimian, École de Technologie Supérieure, Montreal, AB, Canada
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CT-07 Computational Applications in Fatigue, Fracture, and Damage Mechanics

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CT-08 New and Emerging Methods of Analysis and Applications

Young Ho Park, New Mexico State University, Las Cruces, NM, USA
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CT-09 Special Applications of Bolted Flanged Joints

Jeffrey Wilson, VSP Technologies, Prince George, VA, USA
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CT-10 Lessons learned from Bolted Flange Joint Failures

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CT-11 Computational FEA for Limit Load Elastic-Plastic Analysis and Creep

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CT-12 Joining of Multi Materials

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CT-13 Innovative Applications of Commercial FEA Software

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Leonardo De La Roca, Teadit, Rio de Janeiro, Brazil

CT-14 New and Emerging Flange and Non-metallic Design Codes

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Anita Bausman, VSP Technologies, Kingsport, TN, USA

CT-15 Gasket and Packing Testing Panel Session

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Manfred Schaaf, AMTEC GmbH, Lauffen, Germany
Hubert Lejeune, CETIM, Nantes, France

CT-16 Threaded Connections for Innovative and Light Weight Materials

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CT-17 Probabilistic and Risk Based Assessment

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CT-18 Hydrogen Storage, Sealing and Testing Technology (Panel Session)

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Hakim Bouzid, École de Technologie Supérieure, Montreal, QC, Canada
Manfred Schaaf, AMTEC GmbH, Lauffen, Germany
Young Ho Park, New Mexico State University, Las Cruces, NM, USA

CT-19 AI Symposium: AI, Data Engineering and Data Analysis

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Cyril Babál, OMV, Vienna, Austria
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Maria Ortiz De Zúñiga López-Chicheri, Fusion for Energy, Barcelona, Spain

CT-20 Analytical Methods for Hydrogen Applications

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DESIGN AND ANALYSIS [DA]

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DA-01 Design and Analysis of Pressure Vessels, Heat Exchangers, and Components

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Clay Rodery, C&S Technology LLC, League City, TX, USA
Roy Darby, Chevron, Houston, TX, USA
Hao Jiang, Oak Ridge National Laboratory, Oak Ridge, TN, USA
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Qi Li, TD Williamson, Houston, TX, USA

DA-02 Design and Analysis of Piping, Pipelines, and Components

Chakrapani Basavaraju, US Nuclear Regulatory Commission, Rockville, MD, USA
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Bing Li, Kinectrics, Inc., Toronto, ON, Canada
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DA-03 Fatigue

Shunji Kataoka, JGC Corporation, Yokohama, Japan
M. Kevin Mandeville Jr., DNV, Katy, TX, USA
Andrew Owens, TerraPower LLC, Round Rock, TX, USA
Premkumar Chinnaraj, Wood PLC, Houston, TX, USA
Mingxin Zhao, Enterprise Products, Houston, TX, USA

DA-04 Inelastic, Nonlinear, and Limit Load Analysis

Andrew Owens, TerraPower LLC, Round Rock, TX, USA
Trevor Seipp, Becht, Okotoks, AB, Canada
Roy Darby, Chevron, Houston, TX, USA
Qi Li, TD Williamson, Houston, TX, USA
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DA-05 Small Modular Reactor Design

Bing Li, Kinectrics, Inc., Toronto, ON, Canada
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Francesco Brigante, NRG, Heerhugowaard, Netherlands
Ali Ok, Honeywell ESS, Allentown, PA, USA

DA-07 Thermal Stresses and Elevated Temperature Design

Qin Ma, Walla Walla University, College Place, WA, USA
Forrest Gu, Becht, Calgary, AB, Canada
Albert Segall, Pennsylvania State University, State College, PA, USA
Lorenzo Scano, S.S.I. s.r.l. - Studio Scano, Udine, Italy

DA-08 Fitness for Service Evaluations

Gysbert van Zyl, Integrity Engineering Solutions, Dunsborough, Australia
Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada
Abdelgader Abdelgalil, SABIC, Jubail, Saudi Arabia
Ali Ok, Honeywell ESS, Allentown, PA, USA
Antonio Seijas, Phillips 66 Company, Houston, TX, USA
Daniel Blanks, Quest Integrity, Gold Coast, Queensland, Australia
Lorenzo Scano, S.S.I. s.r.l. - Studio Scano, Udine, Italy

DA-09 Piping and Equipment Dynamics and Dynamic Response Analysis

Pieter Van Beek, TNO, Rijswijk, Netherlands
Hao Jiang, Oak Ridge National Laboratory, Oak Ridge, TN, USA
Ashkan Eslaminejad, Structural Integrity Associates Inc., Englewood, CO, USA
Ian-Ty Cheong, Shell, Brisbane, Australia
Raj Singh, Wood Australia, Brisbane, Australia
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DA-10 Design and Analysis of Bolted Joints

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Abdelgader Abdelgalil, SABIC, Jubail, Saudi Arabia
Antonio Seijas, Phillips 66 Company, Houston, TX, USA
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DA-11 Computational Fluid Dynamics in Design and Analysis

Shunji Kataoka, JGC Corporation, Yokohama, Japan
Qi Li, TD Williamson, Houston, TX, USA

DA-12 Fracture

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Darren Pinto, Schenck Products, Sabetha, KS, USA
Qin Ma, Walla Walla University, College Place, WA, USA
Shane Finneran, DNV, Columbus, OH, USA

DA-15 10th International Symposium on Coke Drum Life Cycle Management

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DA-16 Vessel Design Philosophy

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Sean Peters, Deep Mechanix, Santa Monica, CA, USA

DA-17 Composite Materials and Structures

Qin Ma, Walla Walla University, College Place, WA, USA

Pierre Mertiny, University of Alberta, Edmonton, AB, Canada
Mohammed Uddin, Structural Integrity Associates Inc., San Jose, CA, USA

DA-19 Special Considerations in the Design and Analysis of Supports, Restraints, and Welded Attachments

Phillip Wiseman, AtkinsRéalis, Oak Ridge, TN, USA
Kshitij Gawande, Cummins Inc., Columbus, IN, USA
Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada

DA-20 Additive Manufactured Pressure Vessel Development

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DA-21 Design and Analysis of Hydrogen Pressure Equipment

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Forrest Gu, Becht, Calgary, AB, Canada
TJ Prewitt, Structural Integrity Associates Inc., Columbus, OH, USA

DA-22 Design and Analysis of Above Ground Liquid Storage Tanks

Mingxin Zhao, Enterprise Products, Houston, TX, USA
Gysbert van Zyl, Integrity Engineering Solutions, Dunsborough, Australia

DA-23 AI Symposium: AI for the Design and Analysis of Pressure Vessels and Piping

Sean Peters, Deep Mechanix, Santa Monica, CA, USA
Maher Y.A. Younan, The American University in Cairo, Cairo, Egypt

DA-24 Design and Analysis of Non-metallic Piping and Components

Bhaskar Shitolé, Wood PLC, Calgary, AB, Canada

DA-25 Design and Analysis of Cryogenic Pressure Vessels and Piping

Ali Ok, Honeywell ESS, Allentown, PA, USA
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FLUID STRUCTURE INTERACTION [FSI]

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Scott Lang, Applied Flow Technology, Colorado Springs, CO, USA

FSI-01 Thermal Hydraulic Phenomena with Vessels, Piping and Components

Arris Tijsseling, Eindhoven University of Technology, Eindhoven, Netherlands
Thorsten Neuhaus, TUEV Nord, Hamburg, Germany
Scott Lang, Applied Flow Technology, Colorado Springs, CO, USA

FSI-02 Flow-induced Vibration

Marwan Hassan, University of Guelph, Guelph, ON, Canada
Atef Mohany, Ontario Tech University, Oshawa, ON, Canada
Salim El Bouzidi, Canadian Nuclear Laboratories, Chalk River, ON, Canada

FSI-03 Structures Under Extreme Loading Conditions

Jihui Geng, BakerRisk, San Antonio, TX, USA
Matt Edel, BakerRisk, San Antonio, TX, USA
Megan Tribble, Sandia National Laboratories, Albuquerque, NM, USA

FSI-04 AI Symposium: FSI Design and AI for Industry

Joaquin E. Moran, Stantec, Hamilton, ON, Canada
Salim El Bouzidi, Canadian Nuclear Laboratories, Chalk River, ON, Canada

FSI-05 Hydrogen Transport

Stefan Belfroid, TNO, The Hague, Netherlands
Arindam Ghosh, KBR, Cypress, TX, USA
Teguewinde Sawadogo, Canadian Nuclear Laboratories, Chalk River, ON, Canada

HIGH PRESSURE TECHNOLOGY [HT]

Technical Program Representatives:

Megan Tribble, Sandia National Laboratories, Albuquerque, NM, USA
Sreelatha Kilambi, TD Williamson, Tulsa, OK, USA

HT-01 Design, Analysis and Life Prediction of High-Pressure Vessels and Equipment

Erick Ritter, Structural Integrity Associates Inc., Littleton, CO, USA
Melanie Sarzynski, Becht, Houston, TX, USA
Nathan Barkley, Refined Engineering, Tupelo, MS, USA
Thomas Draper, Structural Integrity Associates Inc., Centennial, CO, USA
Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA

HT-02 Structures under Extreme Loading Conditions (Joint Topic)

Matt Edel, BakerRisk, San Antonio, TX, USA
Jihui Geng, BakerRisk, San Antonio, TX, USA
Megan Tribble, Sandia National Laboratories, Albuquerque, NM, USA
Robert Valdiviez, Applied Mechanics Engineering, LLP, Orange, CA, USA
Markus Busch, Technical University of Darmstadt, Darmstadt, Germany
Megan Tribble, Sandia National Laboratories, Albuquerque, NM, USA

HT-03 Fitness for Service and NDE of High-Pressure Vessels and Piping

Sam (Kwok Lun) Lee, TechnipFMC, Houston, TX, USA
Kannan Subramanian, Structural Integrity Associates Inc., Metairie, LA, USA
Rahul Kapadia, ASML, Eindhoven, Netherlands

HT-04 Design and Analysis of High-Pressure Equipment for Industry

Taylor Nyquist, A&A Machine & Fabrication LLC, LaMarque, TX, USA
Giuseppe Macoretta, University of Pisa, Pisa, Italy
David Fuenmayor, UHDE High Pressure Technologies, Hagen, Germany
Mohamadreza Nourani, Elite Professional Engineering, Burnaby, BC, Canada
Kumarswamy Karpanan, Kairos Power, Houston, TX, USA

HT-05 Additive Manufacturing, Isostatic Pressing and Materials for the High-Pressure Industry

Giuseppe Macoretta, University of Pisa, Pisa, Italy
Daniel Peters, Atlas Consulting LLC, Edinboro, PA, USA

HT-06 Design and Analysis of High-Pressure Equipment for Oil and Gas Exploration and Production

Gaurav Bansal, SLB, Houston, TX, USA
Kumarswamy Karpanan, Kairos Power, Houston, TX, USA
Sreelatha Kilambi, TD Williamson, Tulsa, OK, USA
Barry Stewart, TechnipFMC, Glasgow, United Kingdom
Thiago Daflon, TechnipFMC, Rio de Janeiro, Brazil
Przemyslaw Lutkiewicz, DNV, Drammen, Norway

HT-07 Design and Analysis of High Pressure Hydrogen Equipment

Sean Berg, Rimkus, Mooresville, NC, USA
Sreelatha Kilambi, TD Williamson, Tulsa, OK, USA
Mohamadreza Nourani, Elite Professional Engineering, Burnaby, BC, Canada

MATERIALS AND FABRICATION [MF]

Technical Program Representatives:

Jessica Lam, Ontario Power Generation, Toronto, ON, Canada
Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA

MF-01 Application of Fracture Mechanics In Failure Assessment

Preeti Doddihal, Kinectrics, Inc., Toronto, ON, Canada
Douglas Scarth, Kinectrics, Inc., Toronto, ON, Canada
Abdel Hamid Ismail Mourad, United Arab Emirates University, Al-Ain, United Arab Emirates
Gustavo Donato, FEI, Saõ Bernado de Campo, Brazil
Abilio de Jesus, University of Porto, Porto, Portugal
Jessica Lam, Ontario Power Generation, Toronto, ON, Canada
Harry Coules, Amentum, Bristol, United Kingdom
Kiminobu Hojo, Mitsubishi Heavy Industries Ltd., Kobe, Japan
Sureshkumar Kalyanam, Batelle, Columbus, OH, USA

MF-03 Welding Residual Stress and Distortion Simulation and Measurement and Post Weld Heat Treat Effects

Frederick (Bud) Brust, Engineering Mechanics Corporation of Columbus, Columbus, OH, USA
David Rudland, Rudland Consulting, Frederick, MD, USA
Vincent Robin, EDF R&D, Département PRISME, Lyon, France
Harry Coules, Amentum, Bristol, United Kingdom
Graeme Horne, Frazer-Nash Consultancy, Bristol, United Kingdom
Benjamin Pellereau, Rolls-Royce, Derby, United Kingdom

MF-04 European Programs In Structural Integrity

Peter James, Amentum, Warrington, United Kingdom
Tomas Nicak, Framatome GmbH, Erlangen, Germany
Antoine Andrieu, EDF R&D, Lyon, France

MF-05 Fitness-For-Service and Failure Assessment

Marvin Cohn, Intertek AIM, Santa Clara, CA, USA
Qin Ma, Walla Walla University, College Place, WA, USA
Carl Jaske, HSI Group, Columbus, OH, USA
Bruce Wiersma, Savannah River National Laboratory, Aiken, SC, USA
Harry Coules, Amentum, Bristol, United Kingdom
Graeme Horne, Frazer-Nash Consultancy, Bristol, United Kingdom
Arindam Chakraborty, Virtual Integrated Analytics Solutions (VIAS), San Jose, CA, USA
Edward Horton, University of Bristol, Bristol, United Kingdom

MF-06 Materials and Technologies For Nuclear Power Plants

Yiyu (Jason) Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA
Xiang (Frank) Chen, Oak Ridge National Laboratory, Oak Ridge, TN, USA
Rita Kirchhofer, Secretariat, Golden, CO, USA
Murthy Kolluri, Nuclear Research and Consultancy Group, Petten, Netherlands
Dongmei (Donna) Sun, Liburdi Group of Companies, Guelph, ON, Canada

MF-07 Code Fatigue Design Criteria and Environmental Effects (Joint with C&S, D&A, HPT)

Seiji Asada, Mitsubishi Heavy Industries Ltd., Kobe, Japan
Thomas Damiani, EPRI, Palo Alto, CA, USA

MF-09 Mechanistic modeling of deformation and fracture

Peter James, Amentum, Warrington, United Kingdom
Sergio Cicero González, University of Cantabria, Santander, Spain
Harry Coules, Amentum, Bristol, United Kingdom
Qin Ma, Walla Walla University, College Place, WA, USA

MF-10 Pipeline integrity

Xian-Kui Zhu, Savannah River National Laboratory, Aiken, SC, USA
Dong-Yeob Park, CanmetMATERIALS, Natural Resources Canada, Calgary, AB, Canada

MF-11 Small-scale and Miniature Mechanical Testing (Joint with C&S)

Masato Yamamoto, Japan Atomic Energy Agency (JAEA), Tokai, Ibaraki, Japan
Mark Kirk, Phoenix Engineering Associates Inc., Claremont, NH, USA
William Server, Consultant, Black Mountain, NC, USA
Petra Klatovská, ÚJV Řež a. s., Prague, Czech Republic
Marek Adamech, VUJE a.s., Trnava, Slovakia
Dávid Slnek, VUJE a.s., Trnava, Slovakia

MF-12 Leak Before Break

Mohammed Uddin, Structural Integrity Associates Inc., San Jose, CA, USA
David Rudland, Rudland Consulting, Frederick, MD, USA
Peter James, Amentum, Warrington, United Kingdom
Deepak Somasundaram, AtkinsRéalis, Mississauga, ON, Canada

MF-13 Composite and Non-Metallic Systems for Pressure Vessels and Piping (Joint with D&A)

Sureshkumar Kalyanam, Batelle, Columbus, OH, USA
Qin Ma, Walla Walla University, College Place, WA, USA
Jianfeng Shi, Zhejiang University, Hangzhou, China
Pierre Mertiny, University of Alberta, Edmonton, AB, Canada
Mohammed Uddin, Structural Integrity Associates Inc., San Jose, CA, USA
Ashkan Eslaminejad, Structural Integrity Associates Inc., Englewood, CO, USA

MF-14 Probabilistic Assessment of Failure (Joint with C&S)

David Rudland, Rudland Consulting, Frederick, MD, USA
Steven Xu, Kinectrics, Inc., Toronto, ON, Canada
Liqing Wei, Zhejiang University, Hangzhou, China
Do Jun Shim, EPRI, Palo Alto, CA, USA
Graeme Horne, Frazer-Nash Consultancy, Bristol, United Kingdom
Deepak Somasundaram, AtkinsRéalis, Mississauga, ON, Canada
Yinsheng Li, China National Nuclear Corporation, Naka-Gun, Japan

MF-15 Fatigue and Fracture Of Welds And Heat Affected Zones

Mohammed Uddin, Structural Integrity Associates Inc., San Jose, CA, USA
Richard Colwell, Bechtel, Richmond, TX, USA
Do Jun Shim, EPRI, Palo Alto, CA, USA
David Rudland, Rudland Consulting, Frederick, MD, USA
Adam Cooper, Amentum, Warrington, United Kingdom

MF-16 Creep and Creep-Fatigue Interaction

Catrin Mair-Davies, Imperial College London, London, United Kingdom
Mark Messner, Argonne National Laboratory, Plainfield, IL, USA
Haiyang Qian, GE Gas Power, Avon, CT, USA
Yun-Jae Kim, Korea University, Seoul, Republic of Korea
Rita Kirchhofer, Secretariat, Golden, CO, USA
Frederick (Bud) Brust, Engineering Mechanics Corporation of Columbus, Columbus, OH, USA
Michael McMurtrey, Idaho National Laboratory, Idaho Falls, ID, USA

MF-17 Advanced and Additive Manufacturing and Material Technologies (Joint with D&A)

Paul Korinko, Savannah River National Laboratory, Aiken, SC, USA
Ana Reis, Faculty of Engineering - University of Porto, Porto, Portugal
Andrew Duncan, Savannah River National Laboratory, Aiken, SC, USA
Adam Cooper, Amentum, Warrington, United Kingdom
Sylvain Pillot, Le Creusot, Bourgogne-Franche-Comté, France
Catrin Mair-Davies, Imperial College London, London, United Kingdom
Arindam Chakraborty, Virtual Integrated Analytics Solutions (VIAS), San Jose, CA, USA
M. Kevin Mandeville Jr., DNV, Katy, TX, USA
Michael McMurtrey, Idaho National Laboratory, Idaho Falls, ID, USA
Steven Lawler, Frazer-Nash Consultancy, Burton-on-Trent, United Kingdom
Qin Ma, Walla Walla University, College Place, WA, USA

MF-20 Material Quality and Failure Analysis (with Weld Failures Symposium)

Kang Xu, Linde Inc., Tonawanda, NY, USA
Michiel Brongers, Kiefner and Associates Inc., Columbus, OH, USA
Jorge Penso, Shell Projects and Technology, Houston, TX, USA
Mitul Dalal, Shell Projects and Technology, Houston, TX, USA
Qin Ma, Walla Walla University, College Place, WA, USA

MF-21 In-Service Inspection (Joint with NDE)

Marvin Cohn, Intertek AIM, Santa Clara, CA, USA

Carl Jaske, HSI Group, Columbus, OH, USA
Bruce Wiersma, Savannah River National Laboratory, Aiken, SC, USA
Oluwaseun Idowu, Shell Canada, Sherwood Park, AB, Canada

MF-22 3D Crack Growth Simulation Using FEA

Do Jun Shim, EPRI, Palo Alto, CA, USA
Mohammed Uddin, Structural Integrity Associates Inc., San Jose, CA, USA
Yinsheng Li, China National Nuclear Corporation, Naka-Gun, Japan
Yifan Huang, Framatome GmbH, Charlotte, NC, USA
Sureshkumar Kalyanam, Batelle, Columbus, OH, USA

MF-23 Structural Integrity for Spent Fuel Canisters

Andrew Duncan, Savannah River National Laboratory, Aiken, SC, USA
Yun-Jae Kim, Korea University, Seoul, Republic of Korea

MF-24 Materials and Fabrication for Refining

Deepak Mankar, Fluor Corporation, Houston, TX, USA
Richard Colwell, Bechtel, Richmond, TX, USA
Jorge Penso, Shell Projects and Technology, Houston, TX, USA
Mitul Dalal, Shell Projects and Technology, Houston, TX, USA

MF-25 High Strength Steels for Pressure Vessels and Piping Applications

M. Kevin Mandeville Jr., DNV, Katy, TX, USA
Sylvain Pillot, Le Creusot, Bourgogne-Franche-Comté, France

MF-27 Collaborative Digital Framework for Asset Lifecycle Management

Haiyang Qian, GE Gas Power, Avon, CT, USA
Arindam Chakraborty, Virtual Integrated Analytics Solutions (VIAS), San Jose, CA, USA

MF-29 Mechanical Properties of Nuclear Graphite and Composites and their Implementation in Codes and Standards (Joint with C&S)

David Rudland, Rudland Consulting, Frederick, MD, USA
Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA
Joseph Bass, US Nuclear Regulatory Commission, Rockville, MD, USA
Graeme Horne, Frazer-Nash Consultancy, Bristol, United Kingdom
Steven Xu, Kinectrics, Inc., Toronto, ON, Canada
Sureshkumar Kalyanam, Batelle, Columbus, OH, USA
David Rudland, Rudland Consulting, Frederick, MD, USA

MF-30 Cryogenic Pressure Vessels and Piping

Kang Xu, Linde Inc., Tonawanda, NY, USA
Richard Colwell, Bechtel, Richmond, TX, USA
M. Kevin Mandeville Jr., DNV, Katy, TX, USA

MF-32 Materials and Design for Carbon Capture

Deepak Mankar, Fluor Corporation, Houston, TX, USA
Richard Colwell, Bechtel, Richmond, TX, USA
Jorge Penso, Shell Projects and Technology, Houston, TX, USA
Mitul Dalal, Shell Projects and Technology, Houston, TX, USA
Zakaria Hsain, US Department of Energy, Washington, DC, USA
Jan-Willem Rensman, Fluor BV, Hoofddorp, Netherlands

MF-33 General Papers

Jessica Lam, Ontario Power Generation, Toronto, ON, Canada
Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA

MF-35 Material Surveillance for High Temperature Reactors (Jt w. C&S)

Mark Messner, Argonne National Laboratory, Plainfield, IL, USA
Ting-Leung (Sam) Sham, X-energy, LLC, Rockville, MD, USA
Michael McMurtrey, Idaho National Laboratory, Idaho Falls, ID, USA

MF-36 Advances in High Temperature Reactor Technology

Kumarswamy Karpanan, Kairos Power, Houston, TX, USA
Mohammed Uddin, Structural Integrity Associates Inc., San Jose, CA, USA
Sureshkumar Kalyanam, Batelle, Columbus, OH, USA
Yanli Wang, Oak Ridge National Laboratory, Oak Ridge, TN, USA
Andrew Owens, TerraPower LLC, Round Rock, TX, USA
Alex Mieloszyk, TerraPower LLC, Seattle, WA, USA

MF-37 AI Symposium: Applications of Artificial Intelligence, Machine Learning, and Data Analysis in Materials and Fabrication

Maria Ortiz De Zúñiga López-Chicheri, Fusion for Energy, Barcelona, Spain
Paul Korinko, Savannah River National Laboratory, Aiken, SC, USA
Xian-Kui Zhu, Savannah River National Laboratory, Aiken, SC, USA
M. Kevin Mandeville Jr., DNV, Katy, TX, USA
Dongmei (Donna) Sun, Liburdi Group of Companies, Guelph, ON, Canada
Qin Ma, Walla Walla University, College Place, WA, USA

MF-38 Weld Failure Symposium for Energy Generation Sector

John Siefert, EPRI, Charlotte, NC, USA
Darren Barborak, EPRI, Charlotte, NC, USA
Jorge Penso, Shell Projects and Technology, Houston, TX, USA

ASME NONDESTRUCTIVE EXAMINATION, PROGNOSIS, AND DIAGNOSIS DIVISION [NDE]

Technical Program Representatives:

Vivek Agarwal, Idaho National Laboratory, Idaho Falls, ID, USA
Min Zhang, Linde Inc., Tonawanda, NY, USA

NDE-01 Emerging NDE and Prognostic Techniques and Applications

Vivek Agarwal, Idaho National Laboratory, Idaho Falls, ID, USA
Min Zhang, Linde Inc., Tonawanda, NY, USA

NDE-02 NDE Techniques and Applications for Petrochemical and Power Plant Components

Min Zhang, Linde Inc., Tonawanda, NY, USA
Vivek Agarwal, Idaho National Laboratory, Idaho Falls, ID, USA

NDE-03 AI Symposium: NDE Reliability Using Artificial Intelligence, Modeling & Simulation, and Experimental Analysis

Vivek Agarwal, Idaho National Laboratory, Idaho Falls, ID, USA
Min Zhang, Linde Inc., Tonawanda, NY, USA

NDE-04 Structural Health Monitoring of Complex Materials and Structures

Min Zhang, Linde Inc., Tonawanda, NY, USA
Vivek Agarwal, Idaho National Laboratory, Idaho Falls, ID, USA

NDE-05 Risk Assessment of Aging Structures

Vivek Agarwal, Idaho National Laboratory, Idaho Falls, ID, USA
Min Zhang, Linde Inc., Tonawanda, NY, USA

OPERATIONS, APPLICATIONS, AND COMPONENTS [OAC]

Technical Program Representatives:

Mike Weber, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany
Junya Takahashi, Sumitomo Chemical, Niihama City, Japan

OAC-01 AI Symposium: Safety, Reliability, and Risk Management

Alton Reich, Streamline Automation, Huntsville, AL, USA
Sarah Suffield, Pacific Northwest National Laboratory, Richland, WA, USA

OAC-02 Qualification and Testing

Ciska de Haan - de Wilde, NRG, Petten, Netherlands
Georges Bezdikian, Consultant, Le Vésinet, France
Keiko Chitose, OECD NEA, Paris, France

OAC-03 Monitoring, Diagnostics & Inspection

Radim Kopřiva, ÚJV Řež a. s., Husinec, Czech Republic
Jana Petzová, VUJE a.s., Trnava, Slovakia
Brad Denman, Conexus Nuclear Inc., Toronto, Canada

OAC-04 Storage and Transportation of Radioactive and other Hazardous Materials

Mike Weber, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany
Zenghu Han, Argonne National Laboratory, Lemont, IL, USA
Nicholas Klymyshyn, Pacific Northwest National Laboratory, Richland, WA, USA
Oscar Martinez, Oak Ridge National Laboratory, Oak Ridge, TN, USA
Matt Feldman, Sandia National Laboratories, Knoxville, TN, USA
David Tamburello, Savannah River National Laboratory, Aiken, SC, USA
Mustafa Hadj-Nacer, University of Nevada-Reno, Reno, NV, USA
Steffan Komann, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany

OAC-06 Operation and Maintenance of Plant Equipment (with Weld Failures Symposium)
Ayman Cheta, Shell Global Solutions US, Houston, TX, USA
Yasumasa Shoji, YS Corporation LLC, Mushashino, Japan
Junya Takahashi, Sumitomo Chemical, Niihama City, Japan
Jorge Penso, Shell Projects and Technology, Houston, TX, USA
Alton Reich, Streamline Automation, Huntsville, AL, USA
OAC-07 Long Term Operation and Aging Management
Ciska de Haan - de Wilde, NRG, Petten, Netherlands
Georges Bezdikian, Consultant, Le Vésinet, France
Keiko Chitose, OECD NEA, Paris, France

SEISMIC ENGINEERING [SE]
Technical Program Representatives:
Gianluca Quinci, Roma Tre University, Rome, Italy
Jinsuo Nie, US Nuclear Regulatory Commission, Washington, DC, USA
SE-01 Earthquake Resistance and Seismic Margin
Tomoyo Taniguchi, Tottori University, Tottori, Japan
Akira Maekawa, Osaka Sangyo University, Osaka, Japan
Izumi Nakamura, Tokyo City University, Setagata, Japan
SE-02 Seismic isolation
Osamu Furuya, Tokyo Denki University, Tokyo, Japan
Taichi Matsuoka, Meiji University, Kawasaki, Japan
Satoshi Fujita, Tokyo Denki University, Tokyo, Japan
SE-03 Damping and Vibration Control
Keisuke Minagawa, Saitama Institute of Technology, Saitama, Japan
Fabrizio Paolacci, Roma Tre University, Rome, Italy
SE-04 AI Symposium: Machine Learning and Advanced Computation for Seismic Analysis of Industrial Facilities
Gianluca Quinci, Roma Tre University, Rome, Italy
Fabrizio Paolacci, Roma Tre University, Rome, Italy
Oreste Bursi, University of Trento, Trento, Italy
SE-05 Structural Dynamics
Kazuo Hirota, Mitsubishi Heavy Industries, Ltd, Takasago, Japan
Kiyoshi Aida, Primetals Technologies, Kure-Shi, Japan
Katsuhisa Fujita, Osaka City University, Sumiyoshi-ku, Japan
SE-06 Seismic and Ratcheting Deformation of Metallic Materials and Piping
Izumi Nakamura, Tokyo City University, Setagata, Japan
Kisaburo Azuma, Nuclear Regulation Authority, Minato-ku, Japan
SE-07 Seismic Evaluation of Systems, Structures and Components
Satoru Kai, IHI Corporation, Yokohama, Japan
Jinsuo Nie, US Nuclear Regulatory Commission, Washington, DC, USA
SE-08 Advanced Seismic Evaluation and Codes (Joint with C&S)
Akira Maekawa, Osaka Sangyo University, Osaka, Japan
Izumi Nakamura, Tokyo City University, Setagata, Japan
Akihito Otani, IHI Corporation, Yokohama, Japan
Kiminobu Hojo, Mitsubishi Heavy Industries Ltd., Kobe, Japan

SESSION CHAIRS/CO-CHAIRS

NAME	SESSION BLOCK #
Adibi-Asl, Reza	2.1N, 3.2N
Agnani, Milan	2.4O
Asada, Seiji	2.3N, 4.3N
Azuma, Kisaburo	2.2E
Bansal, Gaurav	3.2J
Barkley, Nathan	1.3N, 1.4N, 2.1J, 2.4J
Bausman, Anita	2.3B, 2.4B
Behseresht, Saeed	4.3H
Bezensek, Bostjan	2.4A, 3.2A, 4.1O
Blanks, Daniel	1.3I
Bortot, Paolo	2.1A
Brongers, Michiel	2.1H, 2.2H
Brust, Bud	1.3H
Cerrano Garcia, Marta	3.1K
Chen, Xuedong	3.2L
Cheta, Ayman	2.3H, 2.4H, 3.1H, 4.1C, 4.2C
Chitose, Keiko	2.4F, 3.2F
Cohn, Marvin	3.2I
Colwell, Richard	1.3J, 1.4J, 2.1G
Coules, Harry	2.1K, 3.1L
Cristea, Mihaela E.	3.2A, 4.2O
Cuglietta, Mark	3.1O
Damiani, Thomas	2.3N, 4.3N
Davies, Catrin	4.2N
de Haan-de Wilde, Ciska	2.4F, 3.2F
De La Roca, Leonardo	2.3C
Doddihal, Preeti	1.4K
Draper, Thomas	4.1J
Dulieu, Pierre	2.1I
Duncan, Andrew	0.1Q, 0.2Q, 0.3Q, 0.4Q, 1.3Q, 1.4Q, 2.3Q, 2.4Q
Edel, Matt	4.1I
Elliott, Lindsey	2.2C, 2.3C
Finneran, Shane	4.2H
Furuya, Osamu	1.3L
Gaagat, Shivdeep	4.4C
Gao, Yanfei	1.4H
Geng, Jihui	4.2I
Girão, Carlos	1.3B, 2.1B, 2.2C
Glunt, Nate	1.4F, 2.1C, 2.1F, 2.2F
Gu, Forrest	3.1J, 4.1N
Ha, Yoosung	4.1K
Hall, Brian	4.1K

NAME	SESSION BLOCK #
Han, Zenghu	2.2D
Hassan, Marwan	4.2E
Hayashi, Itsuro	4.3E
Hirota, Kazuo	2.1E
Hojo, Kiminobu	1.4K, 4.2K
Horne, Graeme	3.1D, 3.2D
Huera-Huarte, Francisco	4.1E
Inaba, Kasuaki	4.1H
Jiang, Hao	1.3G, 1.4G, 2.2J, 2.3J
Jun, Hyun Jo	4.3A, 4.4A
Kai, Satoru	2.3E, 3.1E
Kalyanam, Sureshkumar	2.2K
Kapadia, Rahul	1.4M
Karpanan, Kumar	2.3D
Kataoka, Shunji	1.3K, 4.2H
Katusyama, Jinya	2.1F
Kawabata, Tomoya	4.3A, 4.4A
Kent, Michelle	4.2O
Kirk, Mark	2.4K, 3.1K
Klymyshyn, Nick	2.1D
Korinko, Paul	3.2B, 4.1B, 4.2B, 4.3B
Kroon, Ashley	4.1A
Lacroix, Valéry	3.1L
Lam, Jessica	2.1O, 4.1M
Lang, Scott	4.1H
Larrosa, Nicolas	2.4A, 3.2O
LeBoeuf, Andrew	2.2A
Lejeune, Hubert	1.4B
Li, Bing	2.3G, 2.4G, 3.1G, 4.1G, 4.2A
Li, Qi	2.3J, 2.4J, 3.2H
Ma, Qin	1.4C, 2.1G, 3.2I, 4.1N
Maekawa, Akira	1.4L, 2.1E
Mandeville, Jr., M. Kevin	1.3M, 1.4C, 2.1J, 2.2J, 4.2J
Mankar, Deepak	1.3J, 1.4J
McCracken, Steve	2.2I, 2.3I, 2.4I
Menon, Nalini	3.1M, 3.2M
Messner, Mark	2.2L, 2.3L, 2.4D, 4.2N
Mohany, Atef	3.2E
Moran, Joaquin	1.3C, 3.2C, 4.2E, 4.3E
Nadeau, Eric	2.2N
Nakamura, Izumi	1.4L, 2.2E
Nava, Saba	2.1A

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Navalles, Eduard	4.1O
Negyesi, Martin	2.1I
Nibur, Kevin	2.2A
Nie, Jinsuo	2.3E, 3.1E
Nourani, Mohamadreza	3.1A
Obermeier, Florian	2.1O
Ok, Ali	1.3K, 3.2H, 4.2J
Ortiz de Zúñiga López-Chicheri, María	1.3C, 2.1C, 3.2C
Owens, Andrew	1.4I, 2.3D, 2.4N, 3.1N
Pace, Ray	1.3O, 1.4O
Pakarinen, Janne	2.4O
Paolacci, Fabrizio	2.4C
Park, Dong-Yeob	2.2O
Park, Young Ho	4.3H
Penso, Jorge	3.1Q, 3.2Q, 4.1Q, 4.2Q, 4.3Q, 4.4Q
Peters, Daniel T.	1.4M, 2.1M, 2.2M, 2.3M, 2.4M
Peters, Sean	4.4C
Pioszak, Greg	1.4A
Qian, Haiyang	4.2L
Quinci, Gianluca	2.4C, 3.2C
Rafique, Muhammad Raheel	1.4I
Rajasekaran, Ramesh	2.1N
Reich, Alton	4.1C, 4.2C
Reis, Ana	3.2B, 4.1B, 4.2B, 4.3B
Riffel, Kaue	1.4H
Ritter, Erick	4.1J
Robles, Roberto	3.1B
Ronevich, Joe	3.1O
Rudland, Dave	1.3H, 1.4F, 2.2F, 2.4D, 3.1C
Samarov, Victor	2.1M, 2.2M, 2.3M, 2.4M
San Marchi, Chris	2.3A, 4.1A
Sefer, Birhan	1.4A, 3.2O
Seijas, Antonio	1.3N, 1.3N, 3.1B
Seipp, Trevor	0.1Q, 0.2Q, 0.3Q, 0.4Q, 3.1J
Sham, Ting-Leung (Sam)	2.1L, 2.2L, 2.3L, 2.4L, 3.1D, 3.2D
Shi, Jianfeng	4.2L
Shi, Yihai	3.2N
Shim, DJ	1.3F, 2.2K

NAME	SESSION BLOCK #
Shitolé, Bhaskar	1.3I, 2.2G, 2.3G, 3.1G, 3.2G, 4.1G, 4.2G
Shoji, Yasumasa	1.3B, 1.4B
Siefert, John	3.1Q, 3.2Q, 4.1Q, 4.2Q, 4.3Q, 4.4Q
Simmons, Kevin	3.1M, 3.2M
Stewart, Barry	3.2J
Sun, Dongmei	4.1D, 4.2D, 4.3D
Takahashi, Junya	2.4H
Takahashi, Junya	3.1H
Takahashi, Junya	2.3H, 2.4H, 3.1H
Tanguy, Benoit	3.2K
Taniguchi, Tomoyo	1.3L
Tao, Gang	2.3O
Tatman, Jonathan	2.2I, 2.3I, 2.4I
Thakkar, Aman	4.3C
Thodla, Ramgopal	1.3A
Tribble, Megan	3.1A
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Gjinolli, Agron	182987	DA-01-03	2.3J
Gjinolli, Agron	183344	MF-20-02	2.2H
Gjinolli, Agron	184006	DA-16-01	3.1J
Gleim, Tobias	175492	OAC-04-02	2.2D
Gleim, Tobias	175638	MF-37-02	2.1C
Gleim, Tobias	180088	OAC-04-01	2.1D
Gleim, Tobias	183032	OAC-04-02	2.2D
Glime, Kevin	174965	DA-02-01	2.2G
Glunt, Nathan	178729	CS-24-02	1.4F
Godfrey, Darryl	183249	CS-07-02	2.2L
Gómez De Salazar, José María	179558	MF-20-01	2.1H
Gomez-Poncela, Enrique	176005	MF-04-01	2.1O
Gopalakrishnan, Shyam	178448	CS-01-02	1.4O
Goral, Milan	179765	OAC-04-01	2.1D
Goral, Milan	179928	OAC-04-01	2.1D
Goshima, Nobuyoshi	175022	SE-07-02	3.1E
Gouda, Amr	174887	AE-03-01	3.2A
Graham, Dave	180159	CS-01-01	1.3O
Graham, Dave	182570	CS-01-01	1.3O
Graham, Scott	179962	AE-06-01	3.1M
Grandidier, Jean-Claude	177428	AE-02-01	2.4A
Gray, Mark A.	179205	DA-03-01	2.4N
Gray, Richard	179917	MF-29-01	3.2D
Griesbach, Timothy	180045	CS-22-02	2.3I
Grilli, Nicolò	183078	DA-23-02	4.4C
Griscom, Eeva	180016	MF-24-02	1.4J
Grizzi, Robert	176511	OAC-01-02	4.2C
Gross, David	Plenary	PS-01-01	1.2R
Gu, Chaohua	179866	AE-01-03	3.2O
Gu, Quan	183211	DA-02-03	2.4G
Guajardo, Anthony	179924	CS-19-02	3.1K
Guan, Chenfeng	179656	DA-02-02	2.3G
Gui, Feng	177201	AE-07-03	2.1A
Gui, Lele	180479	MF-20-01	2.1H

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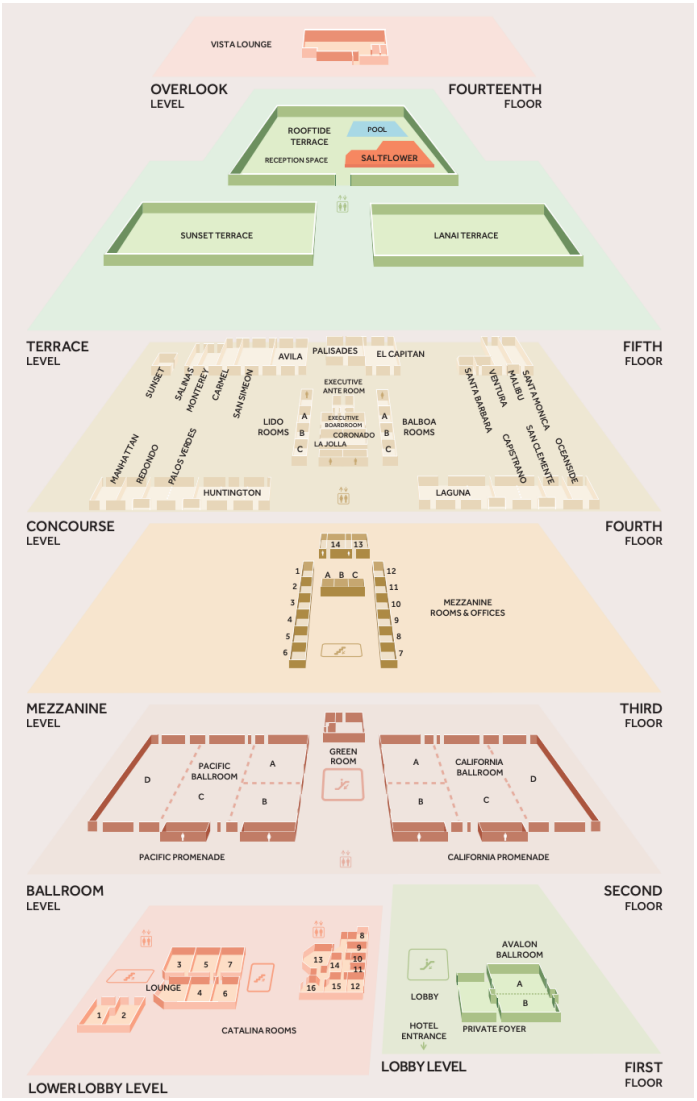
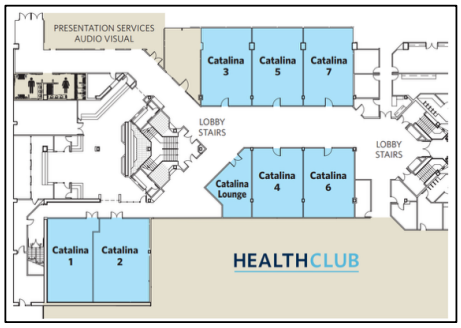
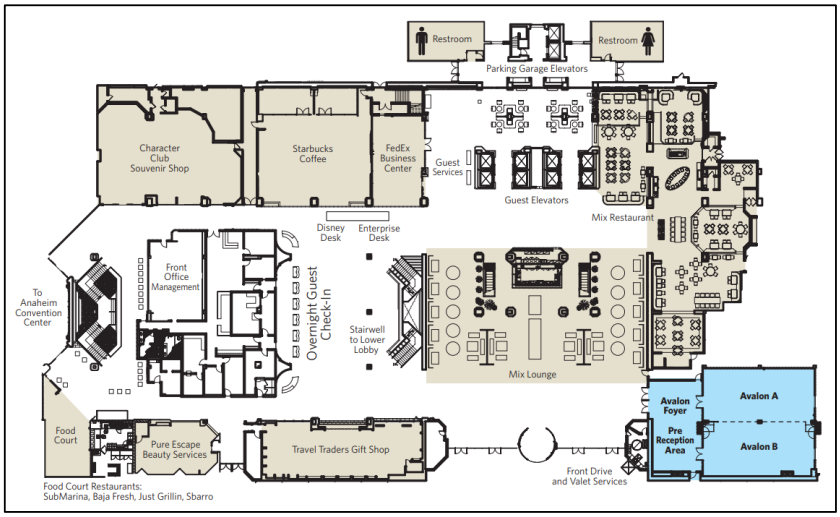
HILTON ANAHEIM FLOOR PLANS



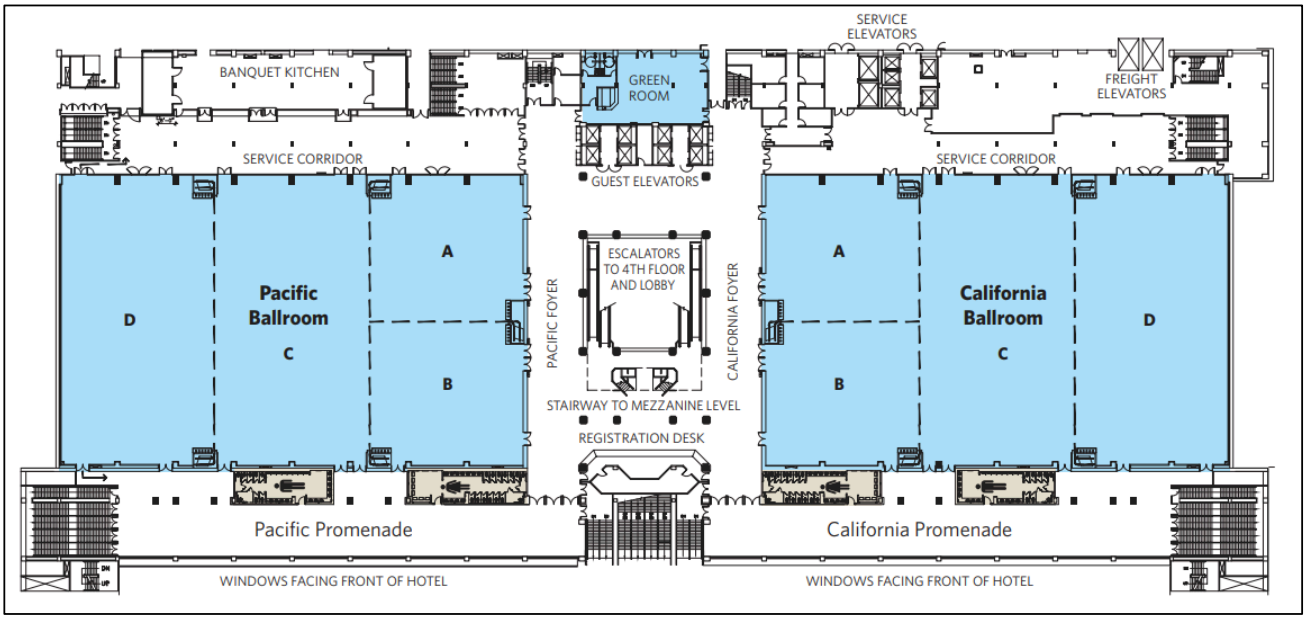
OVERALL LAYOUT



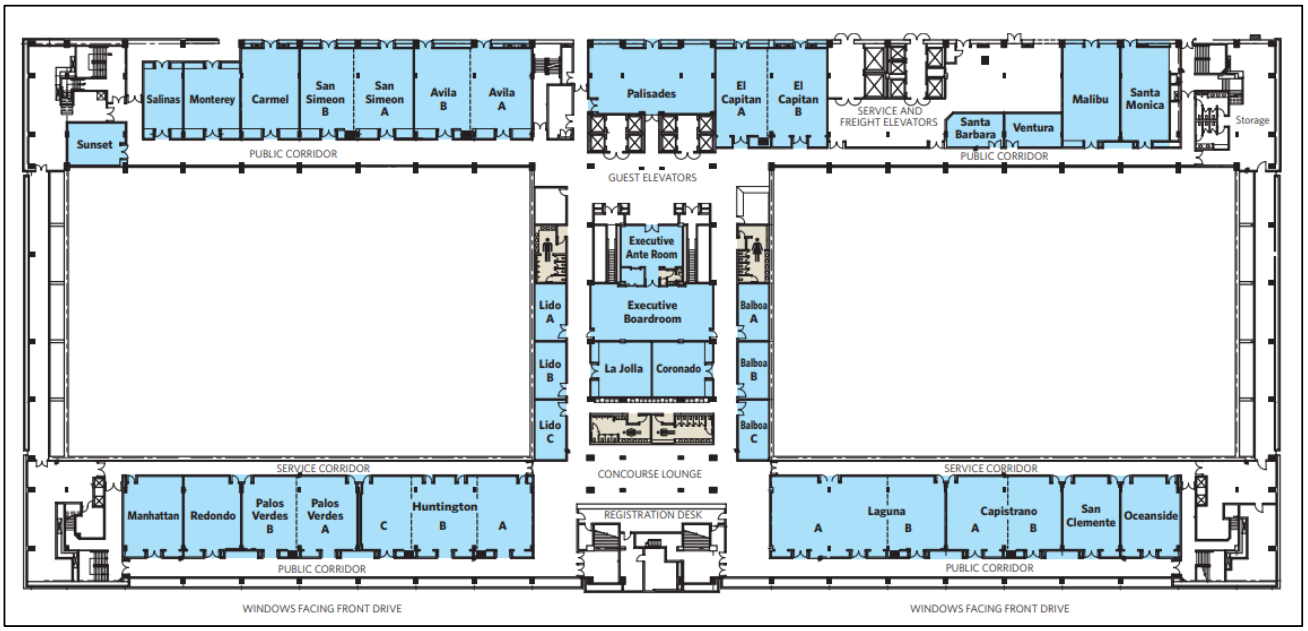
LOWER LOBBY (CATALINA MEETING ROOMS)



LOBBY LEVEL (MAIN LOBBY AND AVALON MEETING ROOMS)



BALLROOM LEVEL (2ND FLOOR)



CONCOURSE LEVEL (4TH FLOOR)

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- Operations, Applications & Components

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January 25, 2027	Submission of Full-Length Paper for Review
March 8, 2027	Notification of Full-Length Paper Acceptance
March 23, 2027	Submission of Revised Full-Length Paper for Review (if required)
April 5, 2027	Notification of Acceptance of Revised Full-Length Paper
April 22, 2027	Copyright Agreement Form (for each paper co-author) Final Deadline
April 26, 2027	Technical Paper and Presentation Author Registration Deadline
April 26, 2027	Final Manuscripts in ASME format for publication due

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