CALL FOR PAPERS

2024 ASME Pressure Vessels & Piping Conference

July 28 – August 2, 2024

ABSTRACTS DUE – OCTOBER 16, 2023

Extended to October 23

JOIN US AT THE 2024 ASME PVP CONFERENCE

JULY 28 – AUGUST 2, 2024, AT THE HYATT REGENCY BELLEVUE

BELLEVUE, WASHINGTON, USA

PRESSURE VESSEL AND PIPING TECHNOLOGIES FOR A SUSTAINABLE WORLD

Join us in Bellevue, Washington for the 2024 ASME Pressure Vessels & Piping Conference, as we contribute to supporting a sustainable world by advancements in Pressure Vessels & Piping Technologies. 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 with participation by the ASME NDPD Division.

PAPER & PANEL SESSIONS

More than 150 paper and panel sessions are planned, including tutorials, workshops, and a Technology Demonstration Forum (Exhibition). General topics will include:

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

SCHEDULE FOR SUBMISSION*

Abstract Submission Deadline Extended to October 23, 2023

October 16, 2023	Abstracts are due
November 13, 2023	Abstract Accept/Reject Notification
January 29, 2024	Submission of Full-Length Paper for Review
March 11, 2024	Peer Review Comments Returned
April 25, 2024	Copyright Agreement Form (for each paper) due
April 29, 2024	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

Yasumasa Shoji
YS Corporation LLC
Tokyo, Japan
yasumasa.shoji@nifty.com

PVP Technical Program Chair

Ravi Baliga
ADVENT Energy Consultants, Inc.
Redwood City, CA USA
rbaliga@adventeng.com

PVP®

ASME
SETTING THE STANDARD

(1) CODES & STANDARDS (C&S)

- CS-01 Structural Integrity of Pressure Components
- CS-02 Hydrogen Effects on Material Behavior for Structural Integrity Assessment (Joint with M&F)
- CS-04 Integrity of Reactor Pressure Vessels and Internals for Codes
- CS-06 API 579/ASME Code Fitness-for-Service Activities
- CS-07 Recent Developments in ASME Codes and Standards
- CS-08 ASME Code Section XI Activities
- CS-09 Recent Developments in Japanese Codes and Standards
- CS-10 Recent Developments in Chinese Codes and Standards
- CS-11 Recent Developments in European Codes and Standards
- CS-12 High Temperature Codes and Standards
- CS-13 Developments in HDPE, Buried and Non-metallic Pipe Codes and Standards
- CS-15 Mechanical Properties of Nuclear Graphite and their Implementation in Codes and Standards (Joint with M&F)
- CS-16 Fatigue and Ratcheting Issues in Pressure Vessel and Piping Design
- CS-17 Environmental Fatigue Issues (Joint with M&F)
- CS-18 Fatigue Monitoring and Related Assessment Method
- CS-19 Fracture Toughness and Other Small Specimen Mechanical Properties (Joint with M&F)
- CS-20 Master Curve Method and Applications
- CS-21 Constraint Effects on C&S
- CS-22 Repair, Replacement and Mitigation for Fitness-for-Service Rules
- CS-23 Improvement of Flaw Characterization Rules for FFS
- CS-24 Probabilistic and Risk-Informed Methods for Structural Integrity Assessment (Joint with M&F)
- CS-25 Fatigue and Fracture Assessment & Management – A Probabilistic Perspective
- CS-26 Advanced Seismic Evaluation and Code (Joint with SE)

2024 Technical Program Representatives:

Pierre Dulieu
Tractebel
Boulevard de Merckem, 60
Namur, 5000, Belgium
Phone # +32 472 568 464
pierre.dulieu@tractebel.engie.com

Sureskumar Kalyanam
Westinghouse Electric Company
1000 Westinghouse Drive,
Cranberry Township, Pennsylvania,
16066-5228, USA
Suresh.Kalyanam@westinghouse.com

(2) COMPUTER TECHNOLOGY & BOLTED JOINTS (CT&BJ)

- CT-01 Design and Analysis of Bolted Flange Joints
- CT-02 Packings and Valves
- CT-03 Leak Tightness and Fugitive Emissions
- CT-04 Assembly of Bolted Joints
- CT-05 Threaded Fasteners
- CT-06 Elevated Temperature Behavior of Bolted Flange Joints
- CT-07 Computational Applications in Fatigue, Fracture, and Damage Mechanics
- CT-08 New and Emerging Methods of Analysis and Applications
- CT-09 Special Application of Bolted Flanged Joints
- CT-10 Lessons Learned from Bolted Flange Joint Failures
- CT-11 Computational FEA for Limit Load Elastic-Plastic Analysis and Creep
- CT-12 Joining of Multi Materials
- CT-13 Innovative Applications of Commercial FEA Software
- CT-14 New and Emerging Flange and Non-Metallic Design Codes
- CT-15 Gasket and Packing Testing Panel Session
- CT-16 Threaded Connections for Innovative and Light Weight Materials
- CT-17 Probabilistic and Risk Based Assessment
- CT-18 Hydrogen Storage, Sealing and Testing Technology (Panel Session)

2024 Technical Program Representatives:

Linbo Zhu
Xi'an Jiaotong University
No. 99, Yanxiang Rd, Yanta Dist
Xi'an, 710054, China
Phone # +86-13659118758
linbozhu@mail.xjtu.edu.cn

Massimiliano De Agostinis
University of Bologna
Dept. of Mechanical Engineering
Viale del Risorgimento 2, Bologna
40136, Italy
Phone # +39 0512093455
m.deagostinis@unibo.it

(3) DESIGN & ANALYSIS (D&A)

- DA-01 Design and Analysis of Pressure Vessels, Heat Exchangers, and Components
- DA-02 Design and Analysis of Piping and Components
- DA-03 Fatigue
- DA-04 Inelastic, Nonlinear, and Limit Load Analysis
- DA-05 Small Modular Reactor Design
- DA-07 Thermal Stresses and Elevated Temperature Design
- DA-08 Fitness for Service Evaluations
- DA-09 Piping and Equipment Dynamics and Dynamic Response Analysis
- DA-10 Design and Analysis of Bolted Joints
- DA-11 Computational Fluid Dynamics in Design and Analysis
- DA-12 Fracture
- DA-15 8th International Symposium on Coke Drum Life Cycle Management
- DA-16 Vessel Design Philosophy
- DA-17 Composite Materials and Structures
- DA-19 Special Considerations in the Design and Analysis of Supports, Restraints, and Welded Attachments
- DA-20 Additive Manufactured Pressure Vessel Development
- DA-21 Design and Analysis of Hydrogen Pressure Equipment

2024 Technical Program Representatives:

Gys van Zyl
Integrity Engineering Solutions
12 Congressional Drive, Dunsborough, WA 6281, Australia
Phone # +61 8 6369 1030
gvanzyl@integrityes.com

Andrew Owens
Tesla Motors - Battery Minerals and Mining
2222 Fernspring Dr, Round Rock, TX 78665, USA
Phone # (979)-480-4051
dru.owens@gmail.com

(4) FLUID-STRUCTURE INTERACTION (FSI)

- FSI-01 Thermal Hydraulic Phenomena with Vessels, Piping and Components
- FSI-02 Flow-Induced Vibration
- FSI-03 Structures Under Extreme Loading Conditions
- FSI-04 FSI Design and Machine Learning for Industry
- FSI-05 Renewable Energy Transport

2024 Technical Program Representatives:

Atef Mohany
Ontario Tech University
2000 Simcoe Street North
Oshawa, ON, Canada L1H 7K4
Phone # +1 905 721 8668 ext. 5422
Atef.Mohany@ontariotechu.ca

Marwan Hassan
School of Engineering
Thornbrough Rm 2405
University of Guelph
Guelph, Ontario N1G 2W1, Canada
Phone # 519-824-4120, ext. 52429
226-979-3086
mahassan@uoguelph.ca

(5) HIGH-PRESSURE TECHNOLOGY (HPT)

- HT-01 Design, Analysis and Life Prediction of High-Pressure Vessels and Equipment
- HT-02 Structures under Extreme Loading Conditions
- HT-03 Fitness for Service and NDE of High-Pressure Vessels and Piping
- HT-04 Design and Analysis of High-Pressure Equipment for Industry
- HT-05 Additive Manufacturing, Isostatic Pressing and Materials for the High-Pressure Industry
- HT-06 Design and Analysis of High-Pressure Equipment for Oil and Gas Exploration and Production
- HT-07 Design and Analysis of High Pressure Hydrogen Equipment

2024 Technical Program Representatives:

Taylor Nyquist
A&A Machine & Fabrication, LLC
3101 Texas Ave
La Marque, TX 77568, USA
Phone # +1- 409-938-4274
jtnyquist@aagroup.com

Sean Berg
Baker Engineering and Risk Consultants
3330 Oakwell CT, San Antonio, TX 78218, USA
Phone # +1 210-824-5960
sberg@bakerrisk.com

(6) MATERIALS AND FABRICATION (M&F)

- MF-01 Application of Fracture Mechanics in Failure Assessment
- MF-02 Materials for Hydrogen Service (Joint with C&S)
- MF-03 Welding Residual Stress and Distortion Simulation and Measurement
- MF-04 European Programs in Structural Integrity
- MF-05 Fitness-For-Service and Failure Assessment
- MF-06 Materials and Technologies for Nuclear Power Plants
- MF-07 Code Fatigue Design Criteria and Environmental Effects (Joint with C&S, D&A, HPT)
- MF-08 Development of Stress Intensity Factor Solutions (Joint with C&S)
- MF-09 Mechanistic Modelling of Deformation and Fracture
- MF-10 Pipeline Integrity
- MF-11 Small-Scale and Miniature Mechanical Testing (Joint with C&S)
- MF-12 Leak Before Break
- MF-13 Composite and Non-Metallic Systems for Pressure Vessels and Piping (Joint with D&A)
- MF-14 Probabilistic Assessment of Failure (Joint with C&S)
- MF-15 Fatigue and Fracture of Welds and Heat Affected Zones
- MF-16 Creep and Creep-Fatigue Interaction
- MF-17 Advanced and Additive Manufacturing and Material Technologies (joint with D&A)
- MF-19 Asian Programs in Structural Integrity
- MF-20 Material Quality and Failure Analysis
- MF-21 In-service Inspection and Monitoring (Joint with NDE)
- MF-22 3D Crack Growth Simulation Using FEA
- MF-23 Structural Integrity for Spent Fuel Canisters
- MF-24 Materials and Fabrication for Refining
- MF-25 High Strength Steels for Pressure Vessels and Piping Applications
- MF-27 Collaborative Digital Framework for Asset Lifecycle Management
- MF-28 Emerging Manufacturing and Mitigation Process Simulation
- MF-29 Mechanical Properties of Nuclear Graphite and their Implementation in Codes and Standards (Joint with C&S)
- MF-30 Cryogenic Pressure Vessels and Piping
- MF-31 Pressure Vessels for Human Occupancy (joint with C&S)
- MF-32 Materials and Design for Carbon Capture
- MF-33 General Papers

2024 Technical Program Representatives:

Kevin Mandeville
DNV
1400 Ravello Dr
Houston TX 77449, USA
Phone # +1-281-396-1868
kevin.mandeville@dnv.com

Sureskumar Kalyanam
Westinghouse Electric Company
1000 Westinghouse Drive,
Cranberry Township, Pennsylvania,
16066-5228, USA
Suresh.Kalyanam@westinghouse.com

(7) OPERATIONS, APPLICATIONS & COMPONENTS (OAC)

- OAC-01 Safety, Reliability, and Risk Management
- OAC-02 Qualification and Testing
- OAC-03 Monitoring, Diagnostics and Inspection
- OAC-04 Storage and Transportation of Radioactive and Other Hazardous Materials
- OAC-05 Pumps and Valves
- OAC-06 Operation and Maintenance of Pressure Vessels, Heat Exchangers, Piping and Supports
- OAC-07 Plant Life Extension Aging and Life Management

2024 Technical Program Representatives:

Oscar Martinez
Oak Ridge National Laboratory
PO Box 2008
Oak Ridge, TN 37831, USA
Phone # +1-865-946-1271
martinezoa@ornl.gov

Ciska de Haan de Wilde
NRG
PO Box 25, Petten, OO, 1755ZG
Netherlands
Phone # +31-622495514
dehaan@nrg.eu

(8) SEISMIC ENGINEERING

- SE-01 Earthquake Resistance and Seismic Margin
- SE-02 Seismic Isolation
- SE-03 Damping and Vibration Control
- SE-04 Machine Learning for Seismic Analysis of Industrial Facilities
- SE-05 Structural Dynamics
- SE-06 Seismic Analysis and Design of Piping System
- SE-07 Seismic Evaluation of Systems, Structures and Components
- SE-08 Multi-Hazards and Margins
- SE-09 Advanced Seismic Evaluation and Code

2024 Technical Program Representatives:

Satoru Kai
IHI Corporation
1, Shin-nakahara-cho, Isogo-ku
Yokohama, Kanagawa, 235-8501, Japan
Phone # +81-90-2084-7452
kai4816@ihi-g.com

Gianluca Quinci
Roma Tre University
Via Vito Volterra 62, Rome, 146, Italy
Phone # +39 3387633874
gianluca.quinci@uniroma3.it

(9) ASME NON-DESTRUCTIVE EVALUATION, DIAGNOSIS AND PROGNOSIS DIVISION (NDPD)

- NDE-01 Emerging Non-Destructive Evaluation and Prognostic Techniques and Applications
- NDE-02 NDE Techniques and Applications for Petrochemical and Power Plant Components
- NDE-03 NDE Reliability - Modeling and Experimental Analysis
- NDE-04 Predictive Non-Destructive Evaluation and Structural Health Monitoring of Complex Materials and Structures
- NDE-05 Risk Assessment of Aging Structures

2024 Technical Program Representatives:

Vivek Agarwal
Instrumentation, Controls, and Data Science Department
Dept. Human Factors, Controls, Statistics
Idaho National Laboratory,
2525 N Fremont Ave
Idaho Falls, ID 83415, USA
Phone # +1-208-526-1107
vivek.agarwal@inl.gov

Min Zhang
Praxair, Inc., a Linde Company
175 East Park Dr.
Tonawanda, NY 14150, USA
Phone # +1-716-879-2548
hitzhangmin@gmail.com

GUIDELINES FOR AUTHORS:

The Program Committee will observe the following criteria in selecting papers for the Conference:

1. The paper must not have had prior extensive publication or circulation. Publication in trade periodicals or other professional or technical journals is considered extensive publication.
2. The paper must be technically correct and should be of interest to a reasonable number of people working in the field of pressure vessels and piping. It may be theoretical, or may present the results of laboratory studies, and it may state or analyze a problem. The paper may also be a review-type paper but must be of significant value to the technical field. The paper should contain new knowledge or experience in some field related to pressure vessels and piping.
3. The paper may present information about equipment, tools, and software used in PVP technology. Such papers must show the definite applications and limitations of such equipment, tools, or software, and must avoid any commercialism.
4. The abstract must have the necessary clearance before submittal. Prospective authors should provide information on any clearance problems when the abstract is submitted.
5. Both theoretical papers in various fields, and application papers presenting solutions to problems, are desired. Program time is limited, so the Program Committee will emphasize the quality of the contribution and its value in the field of PVP Technology.
6. The Program Committee has a stated policy against the use of commercial trade names, company names, or language that is commercial in tone in paper titles, figures, and slides, and these must be avoided. Trade names can only be identified once in a paper to explain details for processes or methods, allowing other researchers to reproduce the results. Beyond this exception, the presence of commercialism in the text of papers is cause for removal of the paper from the program.
7. In accordance with U.S. Copyright Laws, ASME must receive, and maintain on file, a copy of the Transfer of Copyright Form with the final paper, signed by all authors, for papers to be presented at the Conference, and published in Conference Volumes.
8. The final day for abstract submittals is **October 16, 2023 (note: this is earlier than previous years.)**
9. Authors offering papers for the program should fully understand that a manuscript prepared to ASME specifications is required for each technical paper selected for the Conference. The manuscript will be published in an electronic format. Printed Conference Volumes may be available after the Conference. The maximum length for any paper is 10 pages, fully formatted.
10. The last day to submit Draft Papers to the Webtool for Review is **January 29, 2024**.
11. Final Papers are due no later than **April 29, 2024**. Once a final paper is submitted, no subsequent revisions will be accepted.
12. Instructions on preparation of manuscripts and presentation materials are available at: https://www.asme.org/publications-submissions/proceedings/author-guidelines.

GUIDELINES FOR TECHNICAL PROGRAM REPRESENTATIVES (TPRs, TRACK ORGANIZERS)

1. Remind Topic Organizers and Session Developers of the due date for abstract submittal: **October 16, 2023 (note: this is earlier than previous years.)**
2. Ensure that authors of paper abstracts Conference are notified of acceptance/rejection by **November 13, 2023**.
3. Check the wording of the title for each paper in your track.
4. Follow the key dates:
   - Draft Papers are due to the webtool for review by **January 29, 2024**.
   - Peer review comments returned by **March 11, 2024**.
   - Copyright Agreement Forms are due by **April 25, 2024**.
   - Final Papers are due no later than **April 29, 2024**.
5. Ensure that Topic Organizers and Session Developers have assigned Session Chairs and Vice Chairs.
6. Communicate with Topic Organizers and Session Developers on a regular basis.

GUIDELINES FOR TOPIC ORGANIZERS (TOs) AND SESSION DEVELOPERS (SDs)

1. Assign Session Chairs and Vice Chairs to your Sessions, once they are created, ***as soon as possible***.
2. Assign abstracts/papers to a Session. The final day for abstract submittals is **October 16, 2023**
3. Notify the authors of acceptance/rejection by **November 13, 2023**.
4. Communicate with the authors on a regular basis. The last day to submit Draft Papers is **January 29, 2024**.
5. Assign a **minimum** of two (2) Reviewers for each paper.
6. Communicate with the Reviewers on a regular basis.
7. Monitor activities related to:
8. Paper reviews — **Two (2) independent Reviewers for each paper. No one can be the reviewer for all the papers in their Topics(s) or Session(s)**.
9. The Copyright Agreement Form submittals are due no later than **April 25, 2024.**
10. Final manuscripts submittals are due no later than **April 29, 2024.**
11. Follow the key dates.
12. Consolidate Sessions when necessary. Ideally, a Session should have four (4) papers. Avoid having Sessions with less than three (3) or more than five (5) papers.

Plan ahead for ASME PVP 2024 CONFERENCE

Conference Chair

Yasumasa Shoji
YS Corporation LLC
4-8-33 Sekimae Musashino
Tokyo, 180-0014, Japan
Phone # +81-90-6752-0703
yasumasa.shoji@nifty.com

Technical Program Chair

Ravi Baliga
ADVENT Energy Consultants, Inc.
1758 Stockbridge Avenue
Redwood City, CA 94061, USA
Phone # +1-925-719-0260
rbaliga@adventeng.com