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*

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<td>October 16, 2023</td>
<td>Abstracts are due</td>
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<td>November 13, 2023</td>
<td>Abstract Accept/Reject Notification</td>
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<tr>
<td>January 29, 2024</td>
<td>Submission of Full-Length Paper for Review</td>
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<td>March 11, 2024</td>
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<td>April 25, 2024</td>
<td>Copyright Agreement Form (for each paper) due</td>
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<td>April 29, 2024</td>
<td>Final Manuscripts in ASME format for publication due</td>
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*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

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### CODES & STANDARDS (C&S)

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<td>CS-04</td>
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</table>

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

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</table>

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(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

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(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

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(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

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(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
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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

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(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

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### SEISMIC ENGINEERING

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

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GUIDELINES FOR TECHNICAL PROGRAM

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 AUTHORS:

1. The program 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 in 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.

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

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