CALL FOR PAPERS
2021 ASME Pressure Vessels & Piping Virtual Conference
Abstracts Due — November 10, 2020

Opportunities in a New World: PVP in the Post-COVID Era

In less than a year, our world has undergone an immense change. What was considered normal early in the year, is now far from it. The post-Covid world will require that we make significant changes in how we live and work and, most importantly, how we communicate and collaborate with each other—virtually. This 2021 Pressure Vessel & Piping Conference will provide us with the opportunity to examine how industrial, academic and government institutions throughout the global PVP community are adapting to this new reality.

As a recognized international forum with participants from more than 40 countries in Europe, Africa, the Middle East, Asia, the Americas and the Oceania islands, this year’s PVP Conference will be the ideal virtual platform for staying abreast of the latest in PVP engineering innovation and emerging technologies, while communicating and collaborating with fellow experts, practitioners and peers. More than 180 paper and panel sessions are planned, as well as on-line tutorials and workshops, including a Technology Demonstration Forum and virtual exhibition. The ASME Pressure Vessels & Piping Division sponsors each year’s conference with participation by the ASME NDPD Division.

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

Technical areas will also include developments in design methodologies including elastic-plastic analysis, non-destructive examination, fitness-for-service, operation & maintenance, creep, fatigue, stress corrosion cracking, residual stresses, fracture toughness, elevated temperature components, non-metallic components, dynamically loaded structures, flow-induced vibration and risk-based assessments.

SCHEDULE FOR SUBMISSION*
- November 10, 2020 Abstracts are due
- December 1, 2020 Abstract acceptance notification
- January 12, 2021 Draft papers due
- February 23, 2021 Peer review comments returned to authors
- April 2, 2021 Copyright Agreement Form due (for each paper)
- April 6, 2021 Final manuscripts* due for publication

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

FOR MORE INFORMATION
Please visit the 2021 PVP Conference website at http://event.asme.org/pvp for additional information.

Technical paper abstracts must be submitted electronically via the website.

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CODES & STANDARDS
• Structural Integrity of Pressure Components
• Fatigue and Ratcheting Issues in PVP Design
• Environmental Fatigue Issues (Joint M&F)
• Recent Developments in ASME Codes & Standards
• ASME Code Section XI Activities
• Recent Developments in Chinese Codes & Standards
• Recent Developments in European Codes & Standards
• High Temperature Codes & Standards
• Repair, Replacement and Mitigation for Fitness-for-Service Rules
• Probabilistic and Risk-Informed Methods for Structural Integrity Assessment
• Fatigue Monitoring and Related Assessment Method
• Fracture Toughness and Other Small Specimen Mechanical Properties
• Fatigue and Fracture Assessment and Management – A Probabilistic Perspective
• Master Curve Method and Applications
• Improvement of Flaw Characterization Rules for FFS
• General Codes & Standards: Overview and R&D Program
• Total Life Reliability Method

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DESIGN & ANALYSIS
• Design & Analysis of Pressure Vessels, Heat Exchangers and Components
• Design & Analysis of Piping and Components
• Fatigue
• Inelastic, Nonlinear and Limit Load Analysis
• Thermal Stresses and Elevated Temperature Design
• Fitness-for-Service Evaluations
• Piping and Equipment Dynamics and Dynamic Response Analysis
• Design & Analysis of Bolted Joints
• CFD in Design & Analysis
• Fracture
• Evaluation and Countermeasure for Beyond Design Basis Events
• 5th International Symposium on Coke Drum Life Cycle Management
• Composite Materials and Structures
• Special Considerations in Design & Analysis of Supports, Restraints and Welded Attachments

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COMPUTER TECHNOLOGY & BOLTED JOINTS
• Design and Analysis of Bolted Flange Joints
• Packing and Valves
• Leak Tightness and Fugitive Emissions
• Assembly of Bolted Joints
• Threaded Fasteners
• Elevated Temperature of Bolted Flange Joints
• Special Application of Bolted Joints
• Computational Applications in Fatigue, Fracture and Damage Mechanics
• New and Emerging Methods of Analysis and Applications
• Computational FEA for Limit Load, Elastic-Plastic Analysis and Creep

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FLUID-STRUCTURE INTERACTION (FSI)
- General FSI Applications and Transient Thermal Hydraulics
- Symposium on Flow-Induced Vibrations
- 23 International Symposium on emerging Technologies for Fluids, Structures and Fluid-Structure Interactions
- Structures Under Extreme Loading Conditions
- FSI Design for Industry

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MATERIALS & FABRICATION
- Application of Fracture Mechanics in Failure Assessment
- Materials for Hydrogen Service
- Welding, Residual Stress and Distortion simulation and Measurement
- European Programs in Structural Integrity
- Fitness-for-Service and Failure Assessment
- Materials and Technologies for Nuclear Power Plants
- Mechanistic Modeling of Deformation and Fracture
- Pipeline Integrity
- Small-scale and Miniature Mechanical Testing
- Leak Before Break
- Composite and Non-metallic Systems for Pressure Vessels and Piping
- Fatigue and Fracture of Welds and Heat-affected Zones
- Creep and Creep-Fatigue Interaction
- Advanced and Additive Manufacturing and Material Technologies
- Asian Programs in Structural Integrity
- Material Quality and Failure Analysis
- Structural Integrity for Spent Fuel Cannisters
- Materials & Fabrication for Refining
- High-Strength Steels

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HIGH-PRESSURE TECHNOLOGY
- Design and Analysis of High-Pressure Vessels and Equipment
- Structures Under Extreme Loading Conditions
- High-Pressure Equipment Life Assessment Issues
- Design and Analysis of High-Pressure Equipment for Industry
- High-Pressure Codes in China and Other Countries and Their Relationship to ASME Codes
- Advanced Materials for High-Pressure Applications
- NDE and Fitness-for-Service

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OPERATIONS, APPLICATIONS & COMPONENTS
- Safety, Reliability and Risk Management
- Qualification and Testing
- Monitoring, Diagnostics and Inspection
- Toxic Substances: Storage and Transportation
- Pumps and Valves
- Operations and Maintenance of Pressure Vessels, Heat Exchangers and ????????????
- Structures
- Piping and Supports
- Plant Life Extension: Aging and Life Management
- Regulations, Codes and Standards

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SEISMIC ENGINEERING
- Earthquake Resistance and Seismic Margin
- Seismic Isolation
- Vibration and Control
- Resilience and Metamaterials
- Structural Dynamics
- Seismic Analysis and Design of Piping Systems
- Seismic Evaluation of Systems, Structures and Components
- Multi-Hazards and Margins
- Advanced Seismic Evaluation and Code (Joint Session with Codes & Standards)
- Ratcheting Deformation of Materials and Piping

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ASME NON-DESTRUCTIVE EVALUATION, DIAGNOSIS AND PROGNOSIS DIVISION
- Non-Destructive Evaluation (NDE) Research
- Digital Radiography
- Active and Passive Component Online Structural Health Monitoring
- Harsh Environment Sensing
- Wireless Sensing and Energy Harvesting
- Condition-Based Deterministic and Probabilistic Life Assessment
- Fault Tree Analysis and System Level Health Management
- Material Property Characterization
- Life Assessment and Plant Life Extension
- Utility Infrastructure, Petrochemical Plant and Power Plant Inspections
- Codes and Standards Research Activities

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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 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. The Program Committee has a stated policy that does not allow for more than three (3) papers per author.

8. 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.


10. 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 desired length for any paper is approximately ten (10) pages, fully formatted.

11. The last day to submit Draft papers to the webtool for Review is January 12, 2021.

12. Copyright agreement is due no later than April 2, 2021.

13. Final papers are due no later than April 6, 2021.

14. Instructions on preparation of manuscripts and presentation materials and all required ASME forms are available at www.asmeconferences.org/pvp2021/Login.cfm

GUIDELINES FOR TECHNICAL PROGRAM REPRESENTATIVES (TPRS, TRACK ORGANIZERS)


2. Ensure that authors of paper abstracts selected for the Conference are notified by December 1, 2020.

3. Endure that Topic Organizers and Session Developers have created Sessions.

4. Check the wording of the title for each paper in your track.

5. Follow the key dates:
   a. Draft papers are due to the webtool for review by January 12, 2021.
   c. Final papers are due no later than April 6, 2021.

6. Ensure that Topic Organizers and Session Developers have assigned Session Chairs and Vice Chairs.

7. Communicate with Topic Organizers and Session Developers on a regular basis.
GUIDELINES FOR TOPIC ORGANIZERS (TOS) AND SESSIONS DEVELOPERS (SDS)

1. Create sessions as soon as possible.
2. Assign Session Chairs and Vice Chairs to your sessions as soon as possible.
3. Assign abstracts/papers to a session. The final day for abstract submittal is November 10, 2020.
4. Notify the authors of papers selected for the Conference by December 1, 2020.
5. Communicate with the authors on a regular basis. The last day to submit draft papers is January 12, 2021.
6. Assign a minimum of two (2) Reviewers for each paper.
7. Communicate with the Reviewers on a regular basis.
8. Monitor activities related to:
   a. Paper reviews – Two (2) independent Reviewers for each paper. No one can be the reviewer for all the papers in his or her Topic(s) or Session(s).
   b. The Copyright Agreement Form submittal process opens on February 23, 2021 and closes on April 2, 2021.
   c. Final manuscript submittals are due no later than April 6, 2021.
9. Follow the key dates.
10. 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: ASME PVP 2022 CONFERENCE
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