

# CALL FOR PAPERS

2018 ASME Pressure Vessels & Piping Conference  
Abstracts Due — November 6, 2017



## JOIN US IN PRAGUE AT THE 2018 ASME PVP CONFERENCE JULY 15-19, 2018 AT THE HILTON PRAGUE PRAGUE, CZECH REPUBLIC

Set your sights on the 2018 PVP Conference where we will promote excellence in the global pressure vessel and piping industry. Serving the PVP industry for more than 50 years, the PVP Conference has proven to be an outstanding opportunity to exchange ideas and meet colleagues in an international setting. As a recognized forum with participants from more than 40 countries in Europe, Africa, the Middle East, Asia, the Americas and Oceania islands, there is no better time or place to create and advance PVP technologies for our global community. The ASME PVP Division is sponsoring this 2018 conference in cooperation with the ASME NDPD Division.

### PAPER & PANEL SESSIONS

More than 180 sessions are planned including workshops and tutorials, a Technology Demonstration Forum and the 26th Rudy Scavuzzo Student Paper Symposium and Competition. General topics are:

- Codes & Standards
- Computer Technology & Bolted Joints
- Design & Analysis
- Fluid Structure Analysis
- High Pressure Technology
- Materials & Fabrication
- Operations, Applications & Components
- Seismic Engineering
- Non-Destructive Examination
- 26th Rudy Scavuzzo Student Paper Symposium & Competition

### SCHEDULE FOR SUBMISSION\*

- **November 6, 2017** Abstracts are due
- November 27, 2017 Abstract acceptance notification
- February 5, 2018 Draft papers due
- March 5, 2018 Peer review comments returned to authors
- April 2, 2018 Copyright Agreement Form (for each paper) due
- April 9, 2018 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

Please visit the 2018 PVP Conference website at [www.asmeconferences.org/PVP2018/](http://www.asmeconferences.org/PVP2018/). Technical paper abstracts must be submitted electronically through the website.

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#### PVP Technical Program Chair:

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## (1) CODES & STANDARDS

- Pressure Technology and Nuclear Codes & Standards
- Boiler & Pressure Vessel Code, Sections I through XII
- B31 Piping Codes
- Operation and Maintenance Codes
- Codes and Standards Research Activities
- Risk-Based Inspection
- Stress Classification/Factors of Safety
- Environmental Fatigue and Fracture Methods for Codes
- API 579/ASME Fitness for Service Activities
- Developments in US, European, and Asian Codes and Standards
- Code Assessments for Component Reliability and Analytical Evaluations
- Aging Management and Extended Plant Operations
- Operating Plant Experience
- Repair/Mitigation/Replacement Activities
- High Temperature Codes and Standards

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## (2) COMPUTER TECHNOLOGY & BOLTED JOINTS

- Design and Analysis of Bolted Joints and Flange Design
- Design and Analysis of Packing and Valves
- Leak Tightness and Fugitive Emissions
- Assembly of Bolted Joints
- Threaded Fasteners
- Elevated Temperature Behavior of Bolted Joints
- Computational Applications in Fatigue, Fracture, and Damage Mechanics
- New and Emerging Methods of Analysis and Applications
- Computational Model Verification and Experimental Qualification
- Computational Methods for Residual Stresses in Manufacturing and Fabrication Simulation
- Smooth Particle Dynamics
- Computational Models for Limit Load and Elastic-Plastic FEA
- FE Methodology for Materials Model Development
- Development and Applications of Neural Networks, Internet Applications, and Database Management

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## (3) DESIGN & ANALYSIS

- Pressure Vessels, Heat Exchangers, and Components
- Design and Analysis of Piping and Piping Components
- Fatigue, Fracture Mechanics, and Damage Analysis
- Inelastic, Nonlinear and Limit Load Analysis
- Stress Classification and Design by Analysis Methodologies
- Thermal Stresses and Elevated Temperature Design
- Fitness for Service Evaluations
- Piping and Equipment Dynamics and Dynamic Response Analysis
- Design and Analysis of Bolted Joints
- CFD in Design and Analysis
- Evaluation and Countermeasure for Beyond Design Basis Events
- 3<sup>rd</sup> International Symposium on Coke Drum Life Cycle Management
- Vessel Design Philosophy
- Composite Materials and Structures
- Special Considerations in the Design and Analysis of Supports, Restraints, and Welded Attachments
- Design and Analysis of Fusion Reactors

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#### (4) FLUID-STRUCTURE INTERACTION

- Thermal-Hydraulic Phenomena and Interactions with Vessels, Piping, and Components
- Flow-Induced Vibration
- 21st International Symposium on Emerging Technologies for Fluids, Structures and Fluid-Structure Interactions
- Structures Under Extreme Loading Conditions
- Fluid Structure Interaction and Sloshing
- Fluid Structure Interaction Issues in Aeronautical Engineering

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#### (5) 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

#### 2018 Technical Program Representatives:

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#### (6) MATERIALS & FABRICATION

- Smart and High-Temperature Materials and Systems
- Interfacial & Surface Engineering of Materials
- Environmental Degradation
- Fatigue and Fracture
- Crack Nucleation, Critical and Sub-Critical Crack Growth
- Life Prediction and Extension
- Fabrication and Inspection
- Probabilistic and Reliability Aspects
- Systems Engineering Approaches Toward Fabrication
- Creep and Creep-Fatigue Interaction
- Additive Manufacturing
- Composites and Polymers
- Innovative Manufacturing Technologies

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#### (7) OPERATIONS, APPLICATIONS & COMPONENTS

- Safety, Reliability and Risk Management
- Qualification and Testing
- Monitoring, Diagnostics & Inspection
- Toxic Substances: Storage & Transportation
- Pumps and Valves
- Operations & 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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**(8) SEISMIC ENGINEERING**

- Active and Passive Damping
- Seismic Shock, and Vibration Isolation
- Seismic System Responses and Interactions
- Seismic Structural Reliability, Margins, and Probabilistic Risk Management
- Seismic Testing and Analysis Verification
- Seismic Qualification of Systems, Structures, and Components
- Evaluation and Analysis Methods
- Codes and Standards

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**(9) RUDY SCAVUZZO STUDENT PAPER SYMPOSIUM AND  
26TH ANNUAL STUDENT PAPER COMPETITION**

Senior undergraduate students or graduate students in an engineering or scientific curriculum may submit papers on any topic related to pressure vessels and piping. Participation in this event is limited. Special sessions will be sponsored and developed by the ASME PVP Division Senate of Past Chairs.

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**(10) ASME NONDESTRUCTIVE EVALUATION, DIAGNOSIS AND  
PROGNOSIS DIVISION (NDPD)**

- 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, 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. The Program Committee has a stated policy which 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.
9. The final day for abstract submittals is November 6, 2017.
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 desirable length for any paper is about 10 pages, fully formatted.
11. The last day to submit Draft Papers to the Webtool for Review is February 5, 2018.
12. Final Papers are due no later than April 9, 2018.
13. Complete instructions on preparation of manuscripts and presentation materials, and all required ASME forms, will be available at [www.asmeconferences.org/pvp2018](http://www.asmeconferences.org/pvp2018).

## GUIDELINES FOR TECHNICAL PROGRAM REPRESENTATIVES (TPRs, TRACK ORGANIZERS)

1. Remind Topic Organizers and Session Developers of the due date for abstract submittal: November 6, 2017.
2. Ensure that authors of paper abstracts selected for the Conference are notified by **November 27, 2017.**

3. Ensure 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:
  - Draft Papers are due to the webtool for review by February 5, 2018.
  - Copyright Agreement Forms are due by April 2, 2018.
  - Final Papers are due no later than April 9, 2018.
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 SESSION 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 submittals is November 6, 2017.
4. Notify the authors of papers selected for the Conference by November 27, 2017.
5. Communicate with the authors on a regular basis. The last day to submit Draft Papers is February 5, 2018.
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:
  - Paper reviews — **Two (2) independent Reviewers for each paper. No one can be the reviewer for all the papers in his/her Topics(s) or Session(s).**
  - The Copyright Agreement Form submittals are due no later than April 2, 2018.
  - Final manuscripts submittals are due no later than April 9, 2018.
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 for 2019 ASME PVP 2019 CONFERENCE

### Conference Chair

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