



Pressure Vessels & Piping Division Newsletter

H.A. Bouzid, Editor

Spring 2017

A Message from the PVP Division Chair



Doug A. Scarth

The primary mission of the Pressure Vessels & Piping (PVP) Division is to provide a forum for the engineering and scientific communities to promote, share and disseminate state-of-the-art pressure technologies, relating to power generation, and the petrochemical and process industries. The annual PVP Conference has been and continues to be the forum where engineers dealing with pressure vessels & piping technology can exchange information and ideas. Each year, hundreds of volunteers are involved in organizing the PVP Conference, offering technical tutorials, authoring technical papers, contributing to the publication of the Journal of Pressure Vessel Technology, and engaging students through the annual Rudy Scavuzzo Student Paper Competition & Symposium. We will continue to develop strong national and global communities by stimulating the development, acquisition and dissemination of the technical knowledge, and sharing the knowledge with industry and academia, to ensure the vitality and strength of the pressure vessels & piping community.

The success and growth of our PVP Division is a direct result of the commitment

and dedicated contributions of our volunteers. The PVP Division is home to members ranging from students, to early career engineers, to senior members with decades of experience with the Division. A priority of the PVP Division is to engage students and early career engineers to participate in the activities of the Division, and in particular to participate in the PVP Conference. They represent the future of the Division, and their ideas and energy are essential for the PVP Conference to continue to be a vibrant forum. They will have the opportunity to interact with experienced members who are in industry technical leadership roles. They will find that their participation is rewarding and will enhance their professional careers.

One of the areas that the PVP Division is looking to increase its support is advanced manufacturing, including additive manufacturing, with applications to pressure technology. This is reflected in the advanced manufacturing topics of the two plenary lectures planned for the 2017 PVP Conference, as well as a number of the sessions planned for the Conference. The expertise of the Division members in design, materials and fabrication is well suited to support this important topic. The Division will continue to be a strong supporter of international Codes and Standards. The technical documents for a large number of Codes and Standards revisions

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A Message from the Conference Chair



Maher Y.A. Younan

Join us in Waikoloa, Hawaii, USA for a new era of the ASME Pressure Vessels & Piping Conference (PVP). After leading the advancement of the Pressure Vessels, and Piping Industry for the last 50 years, the ASME-PVP is starting a new era of services to the industry. The ASME 2017 PVP (July 16-20, 2017) Conference in Hawaii is developing to be an outstanding international technical forum for participants in a variety of topics related to Pressure Vessel and Piping technologies for the Power and Process Industries. We have received more than 750 technical papers plus over 80 presentations that are being arranged in more than 180 paper and panel sessions. Two special tutorials, and an early career special forum are being arranged. This conference will also have four technical tutorials, a Technology Demonstration Forum, and the 25th Rudy Scavuzzo Student Paper Symposium and Competition. Two outstanding researchers will be present some of the latest developments in the PVP industry. Prof. Stewart Williams, who is the director of the Welding Engineering and Laser Processing Cen-

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Division Chair Message

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are published as papers at the PVP Conference. The Conference also supports Codes and Standards activities through special panel sessions and workshops.

Preparations for the 2017 PVP Conference at the Hilton Waikoloa Village, Hawaii, are rapidly being completed and we look forward to another outstanding technical event. This Conference will be led by Maher Younan, Conference Chair, and Pierre Mertiny, Technical Program Chair. My congratulations and thanks go out to all the authors and organizers for their hard work and commitment. Thanks also go out to the Conference sponsors – their contributions to our success are very much appreciated. At the upcoming 2017 PVP Conference we will welcome attendees from all regions of the globe. This exceptional global gathering of the engineering community provides an excellent opportunity for potential new members to experience the PVP Conference and to discover the knowledge and opportunities the PVP Division has to offer. Join us at the 2017 PVP Conference in Hawaii and be part of this special experience.

I look forward to seeing you in Hawaii!

*Douglas A. Scarth
Chair, PVP Division*

Conference Chair Message

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ter, Cranfield University will be giving a plenary talk on “Large Scale Metal Wire + Arc Additive Manufacture for Pipes and Pressure Vessels”. Prof. Thomas R. Kurfess, of the George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology will be giving a plenary talk on “High Performance Computing and Big Data the Parents of the Digital Twin”. After the success of the EPRI workshop in PVP 2016, another special workshop on “Dissimilar Welds in High Temperature Applications” is being arranged with EPRI on Thursday and Friday July 20-21, 2017.

The Conference is a great place to exchange ideas and to meet colleagues 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 conference registration, and hotel reservation sites are now open. Please visit the Conference website at <https://www.asme.org/events/pvp> to see the PVP-2017 Publication Schedule, and to follow the progress of the PVP-2017 Conference activities. PVP Conferences have a long tradition of being an excellent venue for exchanging state-of-the-art technical information, as well as for many social and networking activities. Information updates pertaining to the PVP-2017 social program will be posted on the Conference website. ASME staff have arranged an outstanding social program at a reasonable cost.

The Pressure Vessels & Piping Division is the primary sponsor of the PVP-2017 Conference, with additional participation by the ASME Nondestructive Evaluation, Diagnosis and Prognosis Division (NDPD).

GENERAL TOPICS:

- (1) Codes & Standards;
- (2) Computer Technology & Bolted Joints;
- (3) Design & Analysis;
- (4) Fluid-Structure Interaction;
- (5) High Pressure Technology;
- (6) Materials & Fabrication;
- (7) Operations, Applications, & Components;
- (8) Seismic Engineering;
- (9) Non-Destructive Examination; and
- (10) the Rudy Scavuzzo Student Paper Competition and Symposium.

The 2017 Pressure Vessels and Piping Conference will take place at Hilton Waikoloa Village, in Waikoloa, Hawaii, USA. This impressive property is nestled within 62 oceanfront acres, offering breathtaking

tropical gardens and abundant wildlife. Located on the Kohala Coast of the Big Island of Hawaii, Hilton Waikoloa Village features 1,240 guest rooms and suites - perfectly suited to any taste. A very interesting social program is being planned.

*Maher Y. A. Younan
2016 PVP Conference Chair*

A Message from the PVP Division Senate



Daniel T. Peters

The ASME PVP Rudy Scavuzzo Student Paper Competition and Symposium, to be held at the 2017 PVP Conference in Waikaloa, Hawaii, are well underway. The rules and procedures for this year's Symposium and Competition are the same as last year. The finalist participation in the Monday evening poster session, which has been so popular, will again be required to produce a poster that will be displayed beginning at the conference-wide reception held on Monday evening of the Conference. Once the finalists have been determined, they will be notified of the required poster size and other details. Locating the poster session as part of the Monday evening reception provides an excellent opportunity for the Conference attendees to recognize and honor the student authors; and, for the authors to discuss their work and answer related questions.

We received a total of 35 draft papers for the student paper competition. Included in those, 13 were submitted to the BS/MS category and 22 papers were submitted to the PhD category. The submitted papers have student authors representing from nine different countries in Asia, Europe, South America, and North America. From each category, up to eight finalists and eight honorable mentions may be selected.

I look forward to seeing you all in Hawaii!

*Daniel T. Peters
PVP Division Senate President*

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PVP Honors and Awards Report



Trevor G. Seipp

V At the 2016 Conference, in honor of the Division's 50th Anniversary, we changed format of the Honors & Awards from a luncheon to an evening Gala Event. We received significant

feedback that this format was greatly appreciated and enjoyed, and as a result we will return with an Honors & Awards Evening Gala for the 2017 Conference.

As in previous years, the recipient of the ASME S.Y. Zamrik Pressure Vessels & Piping Medal for 2017 has been decided and notified. However, the recipient will be revealed with the publication of the 2017 Conference Program.

Nominations for the other awards are ongoing and as we have done for the past two years, we will announce the recipients via the PVP LinkedIn Group. So, please follow the PVP Division on Twitter @asme_pvp and in the LinkedIn Group "ASME-PVP Pressure Vessels and Piping Division" for updates on the 2017 conference.

Trevor G. Seipp

Chair, PVPD Honors & Awards Committee

PVPD Programs Report



Pierre Mertiny

T The 2017 ASME Pressure Vessels & Piping Conference will be at the Hilton Waikoloa Village on the Big Island of Hawaii. The Conference will be held July 16-20, 2017. The venue is not

only beautiful but also provides outstanding opportunities to network and connect with colleagues from around the world. The PVP Conference Chair is Maher Younan. It is my pleasure to be the Conference Technical Program Chair in addition to my role as PVPD Programs Chair for 2017. Preparations for PVP2017 are nearing completion. Over five days approximately 180 paper and panel sessions with over 700 papers are planned, as well as Tutorials, Workshops, and the Student Paper Sympo-

sium & Competition. A two-day workshop will be co-hosted with the Electrical Power Research Institute (EPRI) on the topic of 'Dissimilar Welds in High Temperature Applications' from July 20 to 21. A special event welcoming students/early career and women engineers will be held on Sunday July 16. An orientation for Student Paper Competition participants will accompany this event. A Technology Demonstration Forum has been organized for Monday July 17 and Tuesday July 18. Building on the success in previous years, a Student Poster Session will again be held during the Conference-Wide Reception on Monday of the Conference. On Wednesday July 19 the Conference Honors Assembly and Dinner will be held, Hawaiian style.

Planning for 2018 ASME Pressure Vessels and Piping Conference is already underway, and we are looking forward to holding the conference at the Hilton Prague, Prague, Czech Republic. The conference dates will be July 15-19, 2018. The 2018 PVP Conference leadership will be myself (Pierre Mertiny, Chair) and Hakim Bouzid (Technical Program Chair). The Short-Form Call for Papers has been issued, and is presented in this PVPD Newsletter. The Long-Form Call for Papers is in preparation, and will be available on the PVP conference website at <https://www.asme.org/events/pvp>.

Pierre Mertiny

Chair, PVPD Programs

PVPD Professional Development Report



Darren L. Stang

T The professional development committee of the PVPD is planning two special tutorials, four technical tutorials and one special presentation for early career engineers for the ASME PVP 2017 Conference. Special tutorials and forum are each approximately two hours long and technical tutorials are scheduled for approximately four hours. Attendees of the special and technical tutorials received a certificate of attendance.

The first special tutorial is titled "Business Planning for Engineers" presented by Mr. Alton Reich. Within his tutorial Mr. Reich

will discuss some tools and techniques that can be used to evaluate business ideas, the potential market for them, and help to focus thinking and effort on the things you don't know before making a decision to go forward. These tools can also be used within larger organizations (i.e. the company you still work for) to evaluate new business opportunities. Mr. Reich will discuss the lean canvas as a tool for business planning, which distills a business plan down to one page that is easily modified as an entrepreneur learns new things, and serves as the nucleus of a written business plan. He will also discuss customer discovery, the value of low fidelity prototypes, and the importance of finding out that you're wrong quickly. He hopes to impart some hard-earned knowledge about starting your own business to tutorial attendees.

The second special tutorial is titled "Process and Benefits of ASME Pressure Technology Codes & Standards Development" presented by Mr. William (Bill) Bees and Mr. Clay Rodery. The tutorial outline is as follows. Have you wondered how the Codes & Standards (C&S) that ASME produces happens? In addition to the benefits gained from membership in the PVP Division and attendance/participation in the ASME PVP Conference, ASME offers benefits to those interested in C&S development. This tutorial explains the:

- Process used in development of ASME C&S; specifically in the area of Pressure Technology Codes & Standards;
- Consensus process used in C&S/ANSI development;
- Benefits to participants in ASME C&S development activities;
- Types of participation in the C&S Committees, qualifications, and the expectations of participants;
- Relationship between the ASME Pressure Vessels & Piping Division and ASME C&S;
- Committee Structure under the Board on Pressure Technology C&S and areas of responsibilities;
- Emerging areas in Pressure Technology including those currently seeking participants.
- Number of Standards and Codes under ASME and areas affected.

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PVPD Professional Development Report

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One of ASME's most valuable assets are the relationships with the volunteers who serve on C&S committees. ASME's policy is to afford all interested persons an opportunity to participate in the ASME C&S development process. Membership on a committee normally represents you as an individual, rather than as a representative of your employer or another organization. The Tutorial will conclude with an open question and answer session.

The early career special presentation is titled "Early Career Engineers Forum" will be presented by Mr. Artin Dermenjian. The first half of the forum will provide a brief history and background of ASME-PVP Division activities and how involvement in ASME-PVP will create and facilitate networking and mentoring opportunities. The second half of the forum will be an interactive workshop dealing with issues that new career engineers may face in the work place.

The first technical tutorial is titled "The use of Computational Fluid Dynamics in Design" presented by Sean M. McGuffie and Anthony C. DeFilippo. The tutorial has the following description. Computational fluid dynamics (CFD) is a methodology for solving the Navier-Stokes (NS) equations – the complete, and perfect equations of fluid motion. The NS equations are nonlinear, coupled partial differential equations for which no direct solution exists, except in the most simplified cases. "Correct" solution of the equations requires a technique known as direct numerical simulation; where, due to the demands of the technique, only fundamental research on small geometric domains is conducted, using some of the largest supercomputers in the world. Given this fact, what can CFD be used for in an engineering environment? With the proper validation, a design basis calculation for a nuclear facility serves as an example of how far the technology can be pushed.

It should be understood by the prospective attendee that CFD is an extremely broad topic that can only be explored around the periphery in a four-hour time-frame. Therefore, the goal of the tutorial is to pro-

vide a fundamental understanding of what CFD is, and how it can be used to support engineering design decisions. This will be accomplished through a 75 minute block devoted to theory/implementation. During this portion of the tutorial, the solution of the three fundamentals associated with every engineering problem - continuity, momentum and turbulence - will be discussed. The tutorial will cover the implications that the underlying mathematics have on problem formation and solution, not the actual mathematics. The primary goal is to promote the informed use of this powerful technique and inform the attendee on how to avoid some of the most common pitfalls associated with CFD analyses.

The second technical tutorial is titled, "Fitness-For-Service (FFS) Procedures for Evaluation of Damage or Defects in Pressurized Equipment using API 579-1/ASME FFS-1" presented by Mr. Brian Macejko. The objective of this tutorial will be to provide a technical tutorial on a subset of the API 579-1/ASME FFS-1 Fitness-For-Service (FFS) procedures for evaluation of damage or defects in pressurized equipment. Lectures will be concentrated mostly on Level 1 and Level 2 evaluation procedures (including limitations, applicability, and acceptance criteria). This half-day technical tutorial will be broken into two (2) parts:

Part 1, API 579 FFS Procedures - Volumetric Damage Focus, will include an overview of evaluation procedures for General Metal Loss and Local Metal Loss.

Part 2, API 579 FFS Procedures - Fracture Focus, will include an overview of Brittle Fracture evaluation procedures and an introduction to Crack-Like Flaw evaluation procedures. Both Part 1 and Part 2 of the technical tutorial will include a lecture summarizing recent changes to the 2016 Edition of API 579-1/ASME FFS-1.

The third technical tutorial is titled, "Fatigue Assessment of Weldments" presented by Dr. Pingsha Dong and Dr. Matthew Doré. The tutorial will consist of two parts. Within part one the 2007 major rewrite of the ASME BPVC Section VIII Division 2 a new welded joint fatigue method was introduced using a mesh-insensitive structural stress and master S-N curve approach were introduced. This tutorial will provide discussions on the basis of the method, its applications in design by

analysis evaluation of a number of examples on pressure vessel and piping components involving both finite element based calculations as well as simple cases that only involve manual calculations for solving fatigue problems. Specific topics include:

- Overview of conventional fatigue assessment methods and limitations.
- Basis of mesh-insensitive traction structural stress method and calculation examples.
- Formulation of master S-N curve and validation.
- Treatment of low cycle fatigue and non-proportional multiaxial fatigue.
- Application examples: Fatigue life evaluation of pressure vessels and fatigue life evaluation of girth welded pipe components.
- New developments that are considered for adoption by API 579: Structural strain method and cycle counting procedure for non-proportional multiaxial fatigue loading and master S-N curve based assessment.

Within part two the 2014 updates of BS 7608 will be discussed which include new assessment guidance incorporating the finite element based 'hot spot' stress methodology, amendments to the allowance for bending, as well as updating the recommendations on weld improvement techniques and the addition of new environmental test data. This tutorial will provide discussions on the basis of the revision to the guidance document, its application in fatigue design, as well as simple worked examples using the methods prescribed. Specific topics include:

Introduction - Effect of welding on fatigue.
Overview of TWI's contribution to fatigue design and the development of BS7608.

Review of recent developments:

- Design curves in air and marine environment,
- Plate thickness and bending effects,
- Classification for bolt threads under direct stress,
- Stress analysis - Hot spot stress approach,
- Classification of weld details,
- Quality and Workmanship,
- Assessment of cumulative damage under variable amplitude loading,

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PVPD Professional Development Report

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- Fatigue life improvement techniques,
- Use of test data to define design stresses.

Fatigue assessment examples:

- Fatigue assessment of girth welded pipe using S-N approach.
- Fatigue assessment of welded vessels using fracture mechanics approach.

The fourth technical tutorial is titled "ASME Section VIII, Division 3 Alternative Rules for Construction of High Pressure Vessels" presented by Mr. Daniel Peters. The purpose of this tutorial is to provide an overview of the design methodology and philosophy of ASME Section VIII Division 3, Alternative Rules for High Pressure Vessels. This will include an overview of the analysis methods used, including the application of FEA in meeting the requirements of the Code. This will include examples of practical applications for many of the techniques to demonstrate the philosophy of the Code criteria. This will include an overview of some of the problems in ASME PTB-5-2013, ASME Section VIII Division 3 Example Problem Manual. The class will include detailed example problems that demonstrate how the analytical techniques are to be applied, and their limitations. An overview of key elements of the materials, fabrication sections, along with a discussion of special construction techniques will be included in the tutorial. This will also include an overview of fatigue calculations and life assessment.

Darren L. Stang

Chair, PVPD Professional Development

Journal of Pressure Vessel Technology



Young W. Kwon

Some improvement was observed for the journal during the past years. For example, JVPD has received more papers since CY2015. Before that year, the average number of papers submitted for each calendar year was approximately 215. However, that number jumped to nearly 290 for CY2015 and 250 for CY2016. In addition, the number of days for review-

ing each paper including revised papers was significantly reduced. For example, the papers published in the issues of CY2014 showed that 10% of the published papers were reviewed within 100 days, 35% of them were reviewed between 100 to 199 days, 25% of the papers were reviewed between 200 to 299 days, and 40% of the papers were reviewed over than 300 days. On the other hand, the papers published in the issues of CY2016 had the following statistics. The majority of the papers, i.e. 73%, were reviewed within 200 days (28% within 100 days and 45% between 100 to 199 days). Only 13% required reviews more than 300 days. Some of the papers required multiple revisions. That is the major reason for delayed review process.

The submitted papers during CY2014 to CY2016 were classified based on the corresponding authors' countries. The largest papers were submitted from China (143 papers) and USA (87 papers). These were followed by Japan (68 papers), Canada (55 papers), Iran (38 papers), India (36 papers) and Korea (30 papers). Then, other countries have much less number of papers submitted.

Since the publication of the Golden Anniversary issue last summer, a special topic was published in the December issue of 2016. The topic is "Application of Composite Materials to PVP Technology" which was coordinated by Pierre Mertiny. The purpose of this special topic was to disseminate the advancement of the composite material technology to the PVP technical community because composite materials were expected to replace metallic materials gradually in various applications. Since the publication of the special topic, it has been noticed more composite related papers were submitted to the journal. Another special issue is planned for collection of review papers.

Several Associate Editors finished their second terms. Special thanks go to Al Segall, Jong Jo, Xian-Kui Zhu, Allen Smith, Hakim Bouzid, Haofeng Chen, and Kunio Hasegawa for their contribution to the journal for the past several years. The newly appointed Associate Editors are Sayed Nasar for M&F, San Iyer for D&A, and Steve Hensel for OA&C. They have already taken responsibilities as Associate Editors. The new Associate Editors are greatly appreci-

ated for their willingness to take the responsibility. Their roles and contributions are essential to maintain the quality of the journal.

The JVPD publishes not only research papers but also design innovation and technology review papers. All papers should be submitted to <http://journaltool.asme.org/Content/index.cfm> to be considered for publication in the journal.

Young W. Kwon
Journal Editor

PVPD Communications Report



Hakim A. Bouzid

All papers presented at the PVP-2016 Conference were published on a CD that was distributed to the Conference attendees in their registration packets. Eight paper volumes of the PVP-2016 Conference Proceedings were also published after the Conference. These print volumes are:

- Codes & Standards (Parts A & B)
- Computer Technology & Bolted Joints
- Design & Analysis
- Fluid-Structure Interaction
- High-Pressure Technology, ASME NDE Division, 24th Scavuzzo Student Paper Symposium & Competition, EPRI Creep Fatigue Workshop
- Materials and Fabrication (Parts A & B)
- Operations, Applications, & Components
- Seismic Engineering

Thank you to all who have worked so hard to develop the PVP-2016 program and to all the authors for their contributions. The volumes of the PVP-2016 Conference Proceedings include pages recognizing the dedication and the outstanding effort of the Track Organizers and Session Organizers, who contribute countless hours to the development of the PVP Conference sessions.

The PVPD Newsletter is published twice a year in Fall/Winter and in Spring. All articles of interest to the PVP community are welcome. To submit an article to the PVPD Newsletter, please contact the PVPD communication chair Hakim A. Bouzid at hakim.bouzid@etsmtl.ca.

Hakim A. Bouzid
Chair, PVPD Communications

PVPD Membership Report



Darren L. Stang

PVPD membership as defined as the primary Technical Interest of members in the ASME database. There are currently 37 Technical Divisions/Institutes within ASME and the PVPD is the sixth largest representing 4.4% of total ASME membership. The Division has decreased in membership by 7.25% during past year, shrinking to 3061 members as of January 2017 down from 3283 members last January. Since 2012 ASME has allowed members to create profiles within the asme.org website for themselves. The functionality of the site is similar to that of LinkedIn with the exception that only ASME members have profiles within the site. If you already have a LinkedIn profile you can easily create your profile, there is an automatic conversion feature built into the website. Once your ASME profile is created, a dashboard is generated from which you can manage your account, view committee history, review ASME purchase history and more. Members who have no technical division on file is 6.6% of total ASME membership. In order to grow our membership, it is important to communicate to new and existing ASME members to select "Pressure Vessels and Piping" as their PRIMARY Technical Interest within the ASME.org website. The process to do this is as follows: (1) Sign in to your account on the ASME.org website, (2) Go to your "Dashboard", (3) Select on "Membership Benefits", (4) Select "Member Contact Information", (5) Click on "Update Professional Profile", (6) Select "Pressure Vessels & Piping Division" as your primary Technical Division/Interest. In addition, the ASME Referral Drive is currently ongoing. The ASME Referral Drive is your opportunity to share the value of an ASME Membership with your friends and colleagues, and receive free gifts in the process! Participate and take pride in knowing you are supporting ASME and the vital role it plays in promoting the art, science and practice of engineering around the globe. The benefits of ASME membership have increased greatly over the last few years. Just one such benefit is, the ASME Digital Collection, it is an

immense, searchable database of hundreds of eBooks, over 60,000 technical papers from conference proceedings & journals and, it is all at your fingertips. There are several ways to join ASME. Please renew or apply for ASME membership by registering online through www.asme.org or downloading and mailing the membership application to ASME. Alternatively you can call 1-800-843-2763 (US & Canada) or 1-646-616-3100 (Global).

Since 2009 the PVP Division also maintains a networking group on LinkedIn to foster interaction and collaboration between PVPD members and interested non-members. Our LinkedIn Group has grown at a spectacular rate since its inception. Membership is currently 27,194 this year compared to 25000 last year. The site also features nine subgroups, which are: Materials & Fabrication (2303 members), Codes and Standards (1925 members), High Pressure Technology (1256 Members), Fluid-Structure Interaction (1123 members), Design and Analysis (1013 Members), ASME B31.3 International Review Group (712 members) Seismic Engineering (504 members), Computer Applications/Technology & Bolted Joints (76 members) and, Operations, Applications and Components (59 members). If you have not created a profile on LinkedIn and joined our groups we encourage you do so. Simply visit www.linkedin.com and enter information about yourself as you are prompted by the site. Join this global community of professionals, take part in discussions and connect to colleagues in your field of expertise.

Don't forget about our annual PVP Conference being held this July in Hawaii. The ASME PVP 2017 Conference promises to be the outstanding international technical forum for participants to further their knowledge-base by being exposed to diverse topics, and exchange opinions and ideas both from industry and academia in a variety of topics related to Pressure Vessel and Piping technologies for the Power and Process Industries. PVP is looking forward to fruitful technical exchanges with participants from Europe, Africa, the Middle East, Asia, the Americas, and the Oceania islands. The hotel is currently open to accepting reservations for the conference and rooms go fast so book early.

Darren L. Stang
Chair, PVPD Membership

PVPD International Coordination



Xian-Kui Zhu

The International Coordination (IC) Committee is one of the ASME PVPD Committees, and plays a role to coordinate between eight PVPD technical committees of C&S, C&T, D&A, FSI, HPT, M&F, OAC and S&E as well as Executive Committee in providing various assistances between all PVP conference participants and the PVP conference organizers to solve any possible problems or difficulties occurred during each PVP conference. The purpose is to help and assist mechanical engineers, professionals and students around the world to join the PVP family and to facilitate the continued success and growth of the PVP conferences.

ASME PVP conferences provide a great opportunity for all of us to meet old friends and to make new friends annually so that we can face to face exchange innovative, improved or new technologies on pressure vessels, piping, pipelines and other pressurized structures. The IC members are among those people around the world. Currently, IC has 10 members who represent the eight technical committees in PVPD. Those IC members came from eight countries (Canada, China, France, Germany, Holland, Japan, UK and USA). In the afternoon of Monday on July 18, 2016, the IC Committee met in Vancouver at the PVP 2016 Conference. During the two-hour meeting, the IC members discussed a variety of topics, including PVPD membership, student and young engineer participation, visa issues, language issues in writing PVP conference papers and paper technical reviews, future PVP conference location, and possible support suggestions. Those discussions and suggestions have been reported to the PVPD Executive Committee for their information and consideration in planning next PVP conference.

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International Coordination Report

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The PVP 2016 held in Vancouver, Canada was another very successful conference. As of the morning of Monday on July 18, 2016, a total of 1016 participants from 39 countries were registered and attended to the PVP2016 conference. This participant number was much higher than 791 of PVP2015 held in Boston, USA with a significant increase of 28.5%. Statistics data for PVP2016 showed that (1) top six countries of the PVP 2016 attendees were US, Japan, Canada, UK, China and South Korea in 78.9% of the total participants, (2) North America (USA and Canada) had more than one half of the total participants (58.4%), (3) three Asian countries (Japan, China and South Korea) had one quarter of the total participants (25.5%), and (4) six major European countries (UK, France, Germany, Italy, Netherlands, and Belgium) had participants of 17% only. As a result, PVPD may need to take some steps to promote more European engineers to participate the annual PVP conference, and the future PVP conference may go to an Asian country, such as Japan, China or South Korea to attract more participants there and to promote ASME PVP business in those countries.

This year, PVP2017 will be held in Big Island, Hawaii. It is anticipated that more participants, particularly from the Asian countries, will attend this PVP conference. We are looking forward to seeing you there.

For more information please contact Xian-Kui Zhu at xzhu@ewi.org

*Xian-Kui Zhu
Chair, PVPD International Coordination*

Technical Committee: Design & Analysis



Ravi Baliga

Design and Analysis Committee of ASME PVP Division currently has in access of 40 members affiliated to Academic Institutions, Private Industries, and Government Entities giving a broad cross section of technical capabilities to arrive at innovative solutions to the Engineering problems associated with pressure vessels and piping.

The mission of the D&A Committee is to explore new frontier where engineers from different disciplines can provide their technical knowhow to the industries in the field of Pressure Vessels and Piping by means of developing technical papers and presenting them in the annual PVPD conferences. D&A Committee goal is to develop technical sessions and invite paper presenters as well as attendees from different parts of the World at one location to exchange and transfer their technical knowledge.

Each year D&A Committee develops approximately 16 technical sessions comprising close to 160 technical papers. Some of those papers get selected for Journal publication and some of them get selected for best paper awards. In 2017 ASME PVP Conference will be held in Hawaii and the committee is feverishly working on reviewing in access of 165 technical papers to make sure they meet the minimum quality requirements set by ASME. Committee members will meet on the second day of the conference to discuss the committee mission and goal and identify the lessons learned during developing sessions and interacting with the authors of the technical papers. In this meeting goal will be set to develop number of technical sessions for the next year. The committee also encourages and invites conference attendees to join the committee.

*Ravi Baliga
Chair, Design & Analysis*

Technical Committee: Materials & Fabrication



Michiel Brongers

The Materials and Fabrication (M&F) Technical Committee promotes research, development, and sharing of technical information related to the development and modeling, as well as fabrication and structural integrity technologies, for piping, pipelines, components and pressure vessels. M&F currently has 42 active members of which 15 are ASME fellows, and more than 60 people attend our planning meetings each year.

Areas of interest include fracture mechanics, weld integrity and residual stress predictions and measurements, fitness-for-service and failure assessment, mechanistic materials modeling, advanced materials development including applications to nuclear new builds, fracture toughness, miniature mechanical testing, fabrication processes, composite systems, nondestructive examination (NDE), creep-fatigue interaction, integrity of plastic and composite pipe, and probabilistic assessments.

In addition to these topics, the M&F committee works on newly developing technologies, including Advanced Manufacturing (AM) or 3D printing of pressure components, and Advanced Sensor Technologies for monitoring structural integrity. We also keep abreast of current issues and industry concerns, such as recently identified brittle failures of carbon steel fittings, flanges, and piping.

Because of the multi-disciplinary nature of the technical topics, M&F partners with many of the other technical committees. Collaborations are active with Codes and Standards (C&S) to support development of international Codes and Standards, with Design and Analysis (D&A) in areas of materials deformation and fracture modeling, with High Pressure Technology (HPT)

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Materials & Fabrication

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in areas where material properties and fabrication practices are critical, with Computer Technology and Bolted Joints (CTBJ) for modeling issues related to fasteners, and with the Non-Destructive Engineering (NDE) Division for the product demonstration forum and exhibition.

At the 2016 PVP conference, the Materials and Fabrication Technical Committee (TPR: Dr. Weiju Ren), M&F organized 21 topics with 53 paper sessions. A total of 197 presentations were made, of which 170 written papers were published in a single conference proceedings volume. There were 27 “presentations only” (approximately 25% of the total presentations at PVP 2016).

The M&F Technical Committee partnered with C&S to sponsor 5 joint sessions on “Materials for Hydrogen Service” and 1 joint session on “Hydrogen Effects on Material Behavior for Structural Integrity Assessment” [organizers: Chris San Marchi and Steven Xu]. M&F partnered with C&S to sponsor a joint session on “Interaction and Flaw Modelling for Multiple Flaws” [organizers: John Sharples, K. Myazaki, and Bostjan Bezensek]. M&F partnered with CTBJ to sponsor a joint session on “3D Crack Growth Simulations Using FEA” [Do Jun Shim, Xinjian Duan, and Yinsheng Li]. M&F partnered with C&S to sponsor a joint session on “Development of Stress Intensity Factors” [organizers: Do Jun Shim, and Yinsheng Li]. M&F also partnered C&S to sponsor a joint session on “Developments in HDPE and Non-Metallic Pipe Codes and Standards” [organizers: Sureshkumar Kalyanam, and Steven Xu].

In memory of Dr. David Smith, the M&F Committee hosted a David Smith Memorial Symposium that consisted of three technical sessions; on Welding Residual Stress, Application of Fracture Mechanics, and European Programs in Structural Integrity. And finally, M&F organized the well-attended “50th Anniversary Panel Session: Significant Materials and Fabrication Contributions - A Historical Review” in celebration of PVP’s anniversary year. Past M&F committee chairs Gary Wilkowski, Carl Jaske, Warren Bamford, Judy Todd,

and Jeffrey Fong served as the panelists, and David Rudland was the moderator.

At the PVP2016 conference, the following M&F members were recognized:

Outstanding Technical Paper PVP2015-45556, Mahyar Asadi and Ghazi Alsuruji for their paper “A Method To Define The Best Weld Sequence Using A Limited Number of Welding Simulation Analysis”.

Outstanding Technical Paper PVP2015-45793 Vincent Robin et al for their paper “Modelling of Ultrasonic Shot Peening”.

Outstanding International Technical Session Award: Chris San Marchi, for developing the session “Effects of Gaseous Hydrogen on Pressure Vessel Steels”, Sponsored by M&F, 2015.

Special Tutorial: “Piping Probabilistic Fracture Mechanics – Approaches and Applications,” Xinjian Duan, Dilip Dedhia, David Rudland and Remi Dingreville

Weiju Ren: Certificate of Recognition for service to PVP and M&F (TPR 2016)

Roger Dennis: Certificate of Recognition for service to PVP and M&F

Do-Jun Shim: Certificate of Appreciation for service to PVP and M&F

David Rudland: Certificate of Appreciation for service to PVP Division (M&F Chair 2012-2016)

For the 2017 PVP Conference to be held on July 16-20, 2017 at Hilton Waikoloa Village, Hawaii, the M&F Technical Program is led by the M&F TPR, Dr. Xian-Kui Zhu. More than 30 topics and 180 papers are planned for the 2017 PVP Conference, including two student sessions to support the PVPD Senate Student Paper Symposium and Competition.

The M&F Technical Committee has grown steadily through the years, and is committed to stay current with the latest technologies. We are proud to have a large international membership, which is open to all individuals over a wide variety of disciplines, and to those who are interested in fostering research and development in pressure vessel and piping materials and technologies. For more information please contact Michiel Brongers at Michiel.Brongers@dnvgl.com

*Michiel Brongers
Chair, Materials & Fabrication*

Technical Committee: Codes & Standards



Russell C. Cipolla

The Codes and Standards (C&S) Committee promotes the development and exchange of technical information on current industry and research topics related to the C&S for pressure vessels and piping components. There are a multitude of industry consensus codes, standards, rules, and guidelines on the design, construction and fitness-for-service in the world. Such International industry codes include ASME B&PV Code, API 579/ASME-FFS, European FITNET, French Codes RCC-M and RSE-M, German Guideline FKM, British Standard BS 7910, R-6 and R-5, Chinese Code GB/T, Czech Code AME Standard, Japanese Code JSME, etc. Although the evaluation methodologies may differ, there is a need to harmonize them to obtain consistent results among these different codes and to understand the many unique differences. To this end, the C&S Committee has supported and offered opportunities to share information of mutual interests over the years. This has been facilitated by discussion of ideas and practices among the various international codes through cooperative technical sessions at ASME PVP conferences.

The C&S main topics of interest are in the areas of design and construction criteria, integrity assessment methods, repair and mitigation technologies, in-service inspections and non-destructive examinations, flaw evaluations, high temperature codes, and new criteria for code improvement. The papers in C&S contain technical documents that describe suggested code changes and even propose new standards. We emphasize new code developments and provide a venue for publishing technical basis papers that discuss the fundamental theory and philosophy behind code evaluation procedures. The C&S Committee has become truly international in nature, bringing together people from different countries to exchange new technologies and to share codes and standards developments from their part of the world.

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Codes & Standards.

(Continued from page 8)

The 2016 PVP Conference in Vancouver, British Columbia (Canada) was very successful. The C&S Committee sponsored 25 major technical topics. A total of 131 technical papers, 9 presentations only, and 3 panel sessions were presented during 39 sessions at the conference. Some of these sessions were jointly sponsored with other technical committees; 6 with the Materials & Fabrication (M&F) and 4 with Design and Analysis (DA). The C&S Technical Committee also developed and sponsored a special Memorial Symposium for Rudy Scavuzzo covering multiple sessions on Emerging Codes and Standards, recent developments in US, Chinese, and European Codes, and High Temperature Codes.

The PVP 2016 C&S Committee meeting was attended by 62 members and visitors. During the meeting, Honors and Awards Chair Trevor Seipp awarded Certificates of Recognition to Steven Xu and Kiminobu Hojo for their work as the 2016 Technical Program Representative (TPR) and Co-TPR, Certificates of Recognition to Masato Yamamoto and Gary Stevens for their dedicated service to C&S as a session developers, and a Certificate of Appreciation for his Long-Term Service to the Division as C&S Topic/Session Developer to Kiminobu Hojo. For PVP 2016, Russell Cipolla and Warren Bamford received the Award for the Outstanding Technical Paper entitled, "Technical Basis for Code Case N-809 on Reference Fatigue Crack Growth Curves for Austenitic Stainless Steels in Pressurized Water Reactor Environments," which was presented at the C&S (CS-9) session on ASME Section XI activities. The C&S Committee has grown steadily through the years, and is proud to have a large international membership and active participation.

This year's conference, PVP2017, will be held in Waikoloa Village on the Big Island of Hawaii (USA). Hawaii has served as our venue for PVP in the past and has proved to be a well attended and highly successful conference location. Everyone involved in the planning and administration is working very hard to make the 2017 C&S sessions a very successful endeavor. At the time of this writing, the C&S track has received approximately 135 technical papers for 28

session topics. The C&S Committee sessions for this year's conference are being jointly organized and led by the 2017 TPRs, Ryan Crane from USA, Kiminobu Hojo from Japan, and Steven Xu from Canada. The coordinator for the student paper competition for C&S is Peter James from the UK. Continuing topics in the C&S Track are related to International Codes (Europe, China, Japan and the US), environmental effects on fatigue, and integrity of pressure components and piping, fracture mechanics developments, and ASME Section XI Code activities. New areas to be covered in C&S topics include Repair, Replacement, and Mitigation for Fitness for Service, Master Curve Fracture Toughness Methods, and use of Modern Finite Element Analysis (FEA) Methods for Code Assessments.

We have great expectations that PVP2017 will be a very successful conference. The C&S Technical Committee has maintained a very active membership which has steadily grown over the recent years. Anyone interested in Codes and Standards activities are welcome to attend the next C&S technical committee meeting at PVP2017 Conference in Hawaii. The Committee is seeking individuals who are interested in serving as session developers and symposium organizers. For more information on C&S activities, please feel free to contact Russell Cipolla at russell.cipolla@intertek.com.

*Russell C. Cipolla
Chair, Codes & Standards*

Technical Committee: Computer Technology & Bolted Joints



Wolf Reinhardt

The Computer Technology Committee and Bolted Joints (CTBJ) Technical Committee is the home for expertise and advancement of computer technology within the PVPD. The Committee combines expertise on software, hardware, algorithms and emerging computer related developments that affect pressure vessel and piping analysis, and on design and engineering process capabilities with a

special focus on the application of bolted joints.

The 2016 PVP Conference was held in Vancouver, BC, Canada. The CTBJ committee organized a total of 7 technical paper sessions comprising 26 papers. Topics in bolted joints included design & analysis of bolted flange joints, packings, valves and threaded fasteners, assembly of bolted joints and a session on bolted joint assembler qualification—implementation experience. Committee members also organized a panel in the bolted joints international liaison session. In addition, papers were presented with topics in new and emerging computational methods and 3D crack growth simulations using FEA. The 26th software demonstration forum was again a success, organized as always by our committee member and PVPD senator Jim Cory. The committee wishes to thank the Technical Program Representative Manfred Schaaf for his efforts in the successful CTBJ technical program at the conference. Thanks are also due to co-TPR Robert Noble and to all topic and session developers, whose efforts are much appreciated.

Committee officers for 2016-2017 are Wolf Reinhardt, Chair; Jerry Waterland, Vice Chair and Secretary; Xinjian Duan, Professional Development Chair; Reza Adibi-Asl, Communication Chair, and Young Ho Park, Honors Chair, Robert Noble, International Committee Chair And Yasumasa Shoji taking care of the Student Paper Competition.

At the upcoming 2017 PVP in Hawaii, the CTBJ Software Demonstration Forum will be held for the twenty-sixth time, providing PVP engineers the opportunity to interact with providers of state-of-the-art design, modeling, and engineering analysis software. Paper sessions are organized by the committee members in the above topic areas. Technical Program Representative Robert Noble is coordinating the development of this year's sessions.

The CTBJ Technical Committee encourages anyone who is interested in promoting the application of computational methods and bolted joint technology to participate at the committee meeting at the 2017 PVP. Participation can include developing technical

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Computer Technology & Bolted Joints

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paper and panel sessions, and contributing papers. Please contact the CT Chair Wolf Reinhardt at (905) 823 9060 or wolf.reinhardt@snclavalin.com for more information about our Committee and future meetings.

Wolf Reinhardt

Chair, Computer Technology & Bolted Joints

Technical Committee: High Pressure Technology



Karl C. Simpson

The High-Pressure Technology (HPT) Committee focuses on design, research, development and operation of high-pressure equipment and systems. The attendees experience is our key focus in planning and the execution of our technical track at PVP Conferences. It provides important feedback for the continuing development of ASME high-pressure codes and standards. HPT sessions provide a good mix of corporate researchers and members of academia, exploring fundamental technology, disseminating cutting-edge aspects of high-pressure technology and presentations of the knowledge gained from high-pressure applications.

The High-Pressure Technology Committee held its 2016 annual meeting during the PVP Conference in Vancouver, BC, Canada. The HPT Committee is an international committee with representatives from ten countries and four continents. For the PVP 2016 Conference, the Committee organized technical & panel sessions that covered various aspects of high-pressure technology. During the conference, a panel session titled "API17TR8 Requirements as Related to ASME Codes and Standards" was well attended with significant participation of attendees in the discussions. In future years, we expect more participation from the API High-Pressure High-Temperature community within the High Pressure Technology Committee and PVP

Conferences. Special thanks go out to all the authors who wrote and presented papers at the conference. I would also like to take the opportunity to thank all the Session Developers, paper reviewers and Technical Program Representatives, Kumarswamy Karpanan and David Gross for the many hours they dedicated to making the HPT sessions a great success.

The 2017 PVP Conference will be held in Waikoloa, Hawaii July 16th through the 20th. There are five HPT technical topics currently being finalized under the direction of our Technical Program Representatives Kannan Subramanian and Kumarswamy Karpanan. These are: Design, Analysis, and Life Prediction of High Pressure Vessels and Equipment (organized by Kumarswamy Karpanan, Greg Mital and Harish Radhakrishnan), Structures under Extreme Loading (organized by David Gross), High Pressure Vessel Life Assessment Issues (organized by Chuck Becht V), 20th Anniversary of ASME BPVC Section VIII Div. 3 (organized by Adam Maslowski, Fred Tartar and Greg Mital), Design and Analysis of High-Pressure Equipment for Oil & Gas Exploration and Production (organized by Jim Kaculi and Young-Hoon Han) and the Student Paper Competition (organized by Mahesh Agarwal).

Anyone who is interested in high-pressure technology is invited to join us in Waikoloa for the conference and to participate at the annual HPT Committee meeting which will be held during the conference.

Karl C. Simpson

Chair, High Pressure Technology

Technical Committee: Seismic Engineering



Tomoyo Taniguchi

operation of pressure vessels, liquid storage tanks, piping systems and other structural and non-structural systems and com-

ponents. Encouraging participation in the annual ASME Pressure Vessels & Piping Conference has proven to be an effective way to achieve the SETC's chartered goal. The Committee organizes sessions covering emerging research and applications in a broad range of topics including seismic design, modeling and analysis; seismic response demand; damping and energy dissipation; seismic isolation and vibration control; seismic testing, qualification and verification; high level response of piping and vessels; seismic codes, standards and criteria; seismic damping examination and strength reinforcement; fluid and solid interaction; seismic analysis and design of liquid storage tanks and pressure vessels; seismic analysis and design of industrial piping; and structural reliability and risk assessment. For the 2016 PVP Conference in Vancouver, British Columbia, Canada, the SETC developed fourteen technical sessions for nine topics, with sixty-one technical papers and six student papers. In addition to that, we have five papers for a joint session with the Code & Standard Technical Committee. The TPR and Co-TPR for 2016 was Prof. Fabrizio Paolacci, Roma Tre University, Italy, and Prof. Osamu Furuya, Tokyo Denki University, Japan, respectively.

The SETC met on Tuesday, July 19, 2016 in the Kensington (c) at the Hyatt Regency Vancouver, Vancouver, British Columbia, Canada. Twenty-nine attendees including three PVPD senates, Mike Nitel, Jack Ware and Ismail Kisisel and ten guests. Five guests (including three young engineers) expressed their wish to participate in the next PVP conferences, and perhaps, be members of the SETC. During the meeting, two new members were elected, namely, Akihito Otani and Akemi Nishida.

For the PVP 2017 Conference to be held in Waikoloa, Hawaii, USA, the SETC will develop thirteen paper sessions for eight topics. In PVP2015, all session titles were drastically renewed for attracting prospective authors in the broad range of the PVPD related seismic engineering topics. Moreover, some challenges were made to expand our interests in the area of the Seismic Issues of Aged Plants and the Seismic Damage Assessment and Health Monitoring.

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Seismic Engineering.

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All session titles and further details are available on the conference website.

Seismic engineering is a crosscutting discipline that interacts with many other technical specialties. Since the seismic issues are globally important, our membership is a truly international group that welcomes new members. This offers an opportunity to meet and interact with engineers and researchers from around the world who are working in the various topics associated with seismic engineering. I encourage all who may be interested in seismic engineering issues and desire more information on the activities of the PVP SETC to contact me via e-mail at t_tomoyo@cv.tottori-u.ac.jp.

Tomoyo Taniguchi
Chair, Seismic Engineering

Technical Committee: Operations, Applications & Components



Matt R. Feldman

The mission of the Operations, Applications, and Components (OAC) Committee of the ASME Pressure Vessel and Piping Division is to provide a forum for the international engineering and scientific communities to promote, share and disseminate state-of-the-art technologies related to the operations and applications within, and components used in, the power generation, sustainable energies and petrochemical and process industries. As such, OAC strives to develop technical sessions for the PVP conference each year that provide up-to-date developments within the industry related to operational activities, unique applications related to the boiler and pressure vessel code, and specific uses of components.

- OAC is organized into 9 working sub-committees each of which has a specific focus:
- Safety, Reliability and Risk Management

- Qualification and Testing
- Monitoring, Diagnostics and Inspection
- Storage and Transportation of Radioactive Material
- Pumps and Valves
- Operations and Maintenance of Pressure Vessels, Heat Exchangers, Piping and Structures
- Hazardous Materials Storage, Handling, and Transportation
- Plant Life Extension: Aging and Life Management
- Student Papers

In each of these areas, OAC brings together experts from throughout the world each year at the ASME Pressure Vessel and Piping Conference to present the most recent cutting edge work related to each of the topical areas. In Waikoloa, Hawaii in 2017, OAC expects to have 76 papers in approximately 23 sessions. We are very excited about the quality and diversity of abstracts and draft papers submitted this year and expect the 2017 conference to be a showcase for the OAC committee and PVP Division in general. We hope you will join our sessions at PVP 2017 and look forward to seeing you there. In the meantime, please feel free to contact me via email at feldmanmr@ornl.gov should you have any questions concerning OAC activities or upcoming sessions.

Matt R. Feldman
Chair, Operations Applications & Components

Technical Committee: Fluid Structure Interaction



Christina Giannopapa

The Fluid Structure Interaction (FSI) Technical Committee promotes the study and application of the dynamics of fluid-structure interaction as they relate to the design and operation of pressure vessels, piping systems and components. Emphasis is placed on the fundamental and engineering aspects of flow-induced vibration, fluid-solid interactions, shock and wave propagation, fluid dynamics and transient ther-

mal hydraulics, multi-physics, as well as fluid-structure dynamical systems and their responses. The Technical Committee organizes sessions on these topics at conferences and symposia, encourages and supports publication in the area of FSI and promotes the recognition of outstanding engineering achievements and significant individual contributions to pressure vessels and piping technology.

At the PVP-2016 conference in Vancouver, Canada the FSI TC Technical Programme Representative (TPR) Toshiaki Watanabe alongside with the topic/session organisers, developed 6 sessions with more than 31 papers. The forthcoming PVP-2017 conference, which will be held in Hawaii, USA promises to be a very interesting technical and social event. The FSI TC is sponsoring more than 88 distributed over 22 sessions. A student paper competition will also take place. This impressive level of participation is due to the hard work and dedication of all the members of the Committee including the 2017 FSI TC TPR Lambros Kaitsis and co-TPR Victor Janzen and the topic/session organisers. In my capacity as the FSI Technical Committee Chair, I thank them all for their effort in organising such a promising event. I also take this opportunity to strongly encourage all individuals of the FSI community to attend the PVP 2017 Conference.

The FSI technical committee has been growing continuously over the years and its current membership is truly international. The committee welcomes new members who are interested in promoting research and development in the area of FSI in general and its application to the pressure vessel and piping technology in particular. Those who would like to join the FSI Committee as official members are encouraged to send a copy of their resume to the FSI Chair. In addition, anyone interested in the Committee's activities is invited to attend the FSI Committee meeting at the PVP-2017, or contact the committee Chair and its vice Chairs. The time and location of the meeting will be listed in the conference program.

Christina Giannopapa
Chair, Fluid Structure Interaction

PVPD Professional Groups

The ASME Pressure Vessel and Piping Division PVPD has different Professional Groups that allow people to get in touch to build relations, discuss, report and read news, and post job openings. The sites allows its members to see each other's contacts (links). You can join us on ASME.org, LinkedIn and Twitter;

 <https://community.asme.org/pres-sure-vessels-piping-division/default.aspx>

 <https://www.linkedin.com/groups/1794527>

 https://twitter.com/asme_pvp

S. Y. Zamrik reelected as president of UT ME Academy of Distinguished Alumni

Dr Zamrik was reelected as President of U. Of Texas, ME department Academy of Distinguished Alumni to serve as President for 2017. The Academy recognizes outstanding UT graduates that have excelled in a leadership position in their professional field. The honors Assembly will be in October 2017 in Austin, Tx. Sam will emcee the assembly again in 2017.



Sam Y. Zamrik giving a speech after his reelection as president of the University of Texas Mechanical Engineering Academy of Distinguished Alumni

The ASME Digital Library

Founded in 1880 as the American Society of Mechanical Engineers, ASME is the premier professional membership organization for more than 140,000 mechanical engineers and associated members worldwide. ASME also conducts one of the world's largest technical publishing operations in the world, offering thousands of titles including some of the profession's most prestigious journals, conference proceedings, and ASME Press books.

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- ASME's Transaction Journals from 1960 to the present.
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Additional information can be found at: <http://asmedigitalcollection.asme.org>

David Hsien-Chung Pai passed away



David H. Chung Pai

It is with deep sadness and sorrow that the ASME Pressure Vessel and Piping Division (PVPD) announces the passing of Dr. David Hsien-Chung Pai, Ph.D., P.E., Saturday July 23, 2016 at the Levine-Dickson Hospice House. Dr. Pai served as chair of the PVP Division in 1977-1978.

He was born January 7, 1936 in Guilin, China and immigrated to the United States in 1952. He graduated from LaSalle Military Academy in 1954, and was a 1958 graduate of Virginia Military Institute. Pai received his Master's degree in 1960 from Lehigh University, and a PhD. in 1965 from New York University. He worked his entire 41-year career at Foster Wheeler Corporation, an engineering firm, and retired in 2001 as President and CEO of Foster Wheeler Development Corporation.

He authored or co-authored more than 50 papers, edited two books, and holds four patents. He was Vice President and a fellow of the American Society of Mechanical Engineers, and he was elected to the National Academy of Engineering in 1994, one of the highest honors conferred on engineers. His tenure at Foster Wheeler included achievements in nuclear research and component design, and he contributed to the DOE Clean Coal Technology Design. In 1985 he led a group of engineers to China with the People to People Citizen Ambassador Program begun by President Eisenhower for the purpose of technical exchange. David was recommended as the leader by the American Society of Mechanical Engineers for his work in the Pressure Vessel and Piping Division of the ASME. He is sorely missed by all.

*In his Memory
PVPD*



PVP 2018 – Prague, Czech Republic

Hilton Prague

July 15–19, 2018

2018 ASME Pressure Vessels & Piping Conference

Bringing Excellence to the Global Pressure Vessel and Piping Industry

PVP 2018: Join us in beautiful Prague, Czech Republic, for the 2018 ASME Pressure Vessels & Piping Conference (PVP). Serving the Pressure Vessels and Piping Industry for over 50 years, PVP 2018 will again bring excellence to a global forum. More than 180 paper and panel sessions are planned, as well as tutorials and workshops, a Technology Demonstration Forum, and the 26th Rudy Scavuzzo Student Paper Symposium and Competition. The PVP Conference is an outstanding place to exchange ideas and to meet colleagues in an international setting 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 rewarding interactions 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 will sponsor the PVP 2018 Conference with participation by the ASME NDPD Division.

GENERAL TOPICS: (1) Codes & Standards; (2) Computer Technology & Bolted Joints; (3) Design & Analysis; (4) Fluid-Structure Interaction; (5) High Pressure Technology; (6) Materials & Fabrication; (7) Operations, Applications & Components; (8) Seismic Engineering; (9) Non-Destructive Examination; and (10) 26th Rudy Scavuzzo Student Paper Symposium and Competition.

SCHEDULE: Abstracts are due by November 6, 2017. Authors will be notified of abstract acceptance by November 27, 2017. Draft papers are due by February 5, 2018. Paper peer review comments will be returned by March 5, 2018. A Copyright Agreement Form for each paper must be submitted by April 2, 2018. The final manuscripts in the standard ASME format for publication must be received by April 9, 2018. All presented technical papers will be published as citable documents available post-conference.

INFORMATION: The conference website URL is: <http://www.asmeconferences.org/PVP2018/>. Technical paper abstracts must be submitted electronically through the website. Please visit the website for additional information.

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