

Pressure Vessels and Piping Division Newsletter

M. B. Ruggles-Wrenn, Editor

Spring 2012

A Message from the PVP Division Chair



Ronald S. Hafner

The success and growth of our Pressure Vessels & Piping Division has long been attributed to the participation, the service, and the dedication of our volunteers. Fundamentally, such a concept is correct. But, it must also be noted that the long-term success and the long-term growth of our Division would not have been possible without a common set of goals, a long-term mission concept, and a focus on the goals and the activities that have helped get us where we are today.

The Pressure Vessels & Piping Division of ASME was born on April 13, 1966. Although it may have changed somewhat since that time, our primary focus, to this day, is still on the design, fabrication, inspection, operation and failure prevention of power boilers, heating boilers, pipelines, pumps, valves and other pressure-bearing components and vessels.

Along those lines, our Mission statement notes that our primary mission 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, sustainable energies, and the petrochemical and process industries.*

And, in order to achieve our Mission, the Goals of the Division are specifically defined as follows: 1) Organize conferences to foster the development and exchange of information; 2) Promote high quality technical publications; 3) Promote the application of Codes and Standards to enhance public safety; 4) Support the development of ASME Codes and Standards; 5) Encourage the development of emerging technologies; 6) Create professional development opportunities; 7) Interact with international professional organizations; 8) Cooperate with ASME Technical Divisions and Local Sections; 9) Develop future Division leaders through training and participation in PVPD activities; 10) Diversify conference locations to improve global recognition; 11) Increase membership participation in PVPD activities; 12) Foster an inclusive and diverse PVPD community; and 13) Encourage participation of engineering students and early career engineers.

Because I was there not so long ago, I fully understand that the majority of our volunteers, particularly those in the trenches at the Session Developer level, do not see, or do not even care about our Mission Statement, or the long-term Goals, of the Division. But, I can assure you that, as you begin to move up through the ranks of your sub-committee, and on into the ranks of your Technical Committee — be it

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A Message from the Conference Chair



Michael E. Nitzel

Our upcoming 2012 PVP Conference in Toronto, Ontario, Canada spans five busy days from July 15–19. Located in the heart of the bustling downtown district, the Sheraton Toronto Centre Hotel will indeed be the center of our many conference activities. The Conference is sponsored by the ASME Pressure Vessels and Piping (PVP) Division with additional participation by the ASME Nuclear Engineering Division. The theme of the PVP-2012 Conference is *New Horizons in Global Pressure Vessel and Piping Technology*. Nearly 40 international countries will be represented in Toronto and the conference is expected to have more than 150 Paper Sessions, Panel Sessions, Workshops, and Technical Tutorials, along with the Rudy Scavuzzo Student Paper Symposium and 21st Annual PVPD Student Paper Competition. Our traditional NDE and Software Demonstration Forums are also included in the conference schedule — don't miss these perennial attractions.

PVP Conferences have a long tradition for providing an excellent venue for exchanging state-of-the-art technical information,

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Division Chair Message

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Codes and Standards, Computer Technology & Bolted Joints, Design & Analysis, Fluid-Structure Interaction, High-Pressure Technology, Materials & Fabrication, Operations, Applications, & Components, or Seismic Engineering — all of this will become clearer every day.

Since my term as the Division Chair, and as a PVPD Executive Committee member, comes to an end this July, I would like to express my sincere appreciation to the many people who have supported me and assisted me over the past several years. My thanks, in particular, go to the members of the PVP Executive Committee, members of the PVP Senate, our Technical Committee Chairs, our Technical Program Representatives, and the ASME staff. Without their help, it would have been difficult, if not impossible, for me to carry out all of my responsibilities.

As a final note, I would like to add that the PVP-2012 Conference is well underway, under the leadership of Michael E. Nitzel, the Conference Chair, and, Dennis K. Williams, the Technical Program Chair. Please come and join us at PVP-2012, and I look forward to seeing you in Toronto!

*Ronald S. Hafner
Chair, PVP Division*

Conference Chair Message

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and, over the years, they have provided many social and networking activities. The conference will begin on Sunday, July 15 with the opening of on-site registration, workshop sessions, and the Sunday special tutorial which will this year be presented by the ASME Ontario Section. Technical paper sessions begin on Monday morning. Opening remarks delivered by incoming ASME President Marc W. Goldsmith will begin the Plenary Session. Presentations by speakers from Ontario Power Generation and the Canadian Nuclear Safety Commission will complete an

interesting and informative plenary session. In addition to the numerous technical paper sessions, the popular NDE Demonstration Forum and Software Forum will be presented on Monday and Tuesday, respectively. Three technical tutorials will also be presented during the conference—one each on Monday, Tuesday, and Wednesday. The PVP Division Technical Committees will also meet during the lunch breaks on Monday and Tuesday. Conference attendees are encouraged to attend one or more of these technical committee meetings and become active members in these outstanding groups.

A key component of every PVP Conference is the opportunity to socialize with old friends and make new friends — our conference in Toronto offers several great possibilities. The conference-wide reception on Monday evening presents an excellent opportunity for meeting and interacting with all the attendees and their guests. Wednesday's social highlight celebrates the international cultures represented at the conference with an evening at the Atlantis Pavilion — one of Toronto's surprise gems. The venue is perched on stilts over Lake Ontario and features 30-ft floor-ceiling windows providing fantastic views of the Toronto skyline. The evening will begin with a reception on the Atlantis rooftop (in the mezzanine area if the weather is not cooperating). Dinner in the Atlantis' main room will offer an international food station menu featuring dishes with Italian, Greek, and Canadian origins. Following professional dancers who will demonstrate different styles of international dance, the dance floor will be open to the conference attendees to enjoy music and dancing to complete the evening.

Two separate daytime tours have also been arranged for families and guests. A day trip to Niagara Falls on Monday features a visit to one of North America's great attractions. This trip includes an up-close look at the falls from the Maid of the Mist tour boat and a group lunch at a restaurant overlooking the falls. A city tour of Toronto is Tuesday's special attraction. This tour will travel through several of Toronto's ethnic neighborhoods to a special

tour stop at Casa Loma — a 98-room castle residence built from 1911–1914 replicating the homes of European royalty. After Casa Loma the tour will continue to the Distillery District which has provided background scenery for several major movies and is also home for numerous shops and restaurants.

The Conference website is <http://www.asmeconferences.org/PVP2012/>. The website is continually being updated as the conference plans progress. Please visit the website to complete conference registration, make hotel reservations, view preliminary program information, and obtain the latest new information.

My final note is to offer my sincere thanks to all of you who have provided tremendous dedication, commitment, and countless hours in the preparation for this conference. Likewise, my thanks go out to all the conference sponsors. The sponsors' support is a much appreciated component in assuring the success of our conference.

Please join us for a great conference in the beautiful international setting that is Toronto! We look forward to seeing you there!

*Mike Nitzel
PVP-2012 Conference Chair*

A Message from the PVP Division Senate



Luc H. Geraets

The PVP Senate consists of all past chairs of the Division. It is an integral part of the Executive Committee (EC), with no vote, acting in an advisory capacity to the EC. The members use the experience gained while having been EC Members and Division Chairs to advise the EC.

This advisory capacity includes, but is not limited to, acting as mentors to EC members and providing the necessary training to the division leadership, identifying high-

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Message from Senate President

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ranking leaders from industry and academia as speakers for the conference plenary sessions, monitoring activities of the Division to avoid conflicts of interest, supporting and helping the division journal and serving as a technical source for preparing position papers, participating in discussions with the EC on potential new members of the EC.

At the annual PVP Conference, the Senate is the principal organizer of the Rudy Scavuzzo Student Paper Symposium and Competition (SPC); it also organizes and supports special symposia (NDE and Software Forums, Panel sessions dealing with Emerging Technologies, etc.) and Conference sponsorship.

We are looking forward to meeting you at the PVP-2012 SPC sessions!

Luc H. Geraets
PVP Division Senate President

Professional Development Report



Michael E. Nitzel

Workshops and Tutorials are excellent opportunities to further your knowledge-base by being exposed to diverse topics and exchange opinions and ideas both from industries and academia. Below are brief descriptions of the workshop and tutorial options planned for the PVP-2012 in Toronto, Canada. Please find time in your conference schedule to attend these informative sessions.

Workshop

Scheduling of workshop sessions for Sunday, July 15 is not finalized as this newsletter goes to press. Please continue to monitor the PVP-2012 Conference website for up-to-date announcements (<http://www.asmeconferences.org/PVP2012/>).

Tutorials

Technical Tutorial I

Use of CFD in Design

Monday, July 16, 2:00 pm – 5:45 pm,

Civic Ballroom South

Sean McGuffie, Sujay Krishnamurthy, and Mike Porter

This tutorial will provide the design engineer with an understanding behind the fundamental concepts related to successfully performing CFD analyses, and how they can be incorporated into design processes. The tutorial will begin with an overview of the CFD process, including:

- A general outline of the Navier-Stokes equations and their solution
- The selection of proper computational domains
- Basic requirements for computational grids
- Selection of proper boundary conditions
- Turbulence models required for basic solutions

These preliminary concepts will then be reinforced through the solution of a “simple” CFD model. During the solution of the problem the concepts of establishing solution monitors and using them to monitor convergence will be discussed.

Next, more advanced topics/physics models that can be incorporated into CFD analyses will be discussed, including:

- The incorporation of the energy equation for thermodynamics analyses, including radiation models
- The use of multi-component flows, including:
 - Multi-species
 - Volume of fluid
 - Eulerian methods
 - Lagrangian methods, and
 - Reacting flows
- Non-approximate transient methods such as DES and LES

Industrial examples will be shown to demonstrate the advanced topics.

Technical Tutorial II

Practical Piping Vibration

Tuesday, July 17, 8:30 am – 12:15 pm, Civic Ballroom South

Charles Becht IV

This tutorial provides an overview of a wide variety of causes of piping vibration from the point of view of an engineer that must identify the cause of vibration, determine if vibration is excessive, and correct

the problem if it is. It provides a background on fundamental causes of piping vibration and how to identify source of vibration, rules of thumb and simplified methods for evaluating vibration severity, and methods of treatment. A wide variety of causes of vibration are covered in order to enable the participant to properly evaluate various piping vibration problems that can occur in piping systems. The causes of vibration, where possible, are discussed with respect to very basic energy and momentum principles that enable the participant to understand what is happening within and to the piping system. Screening and simple vibration limits are provided.

Please check your conference program and/or the posters located in the conference registration area to verify room assignments for these events. Certificates of attendance will also be available for the workshop and technical tutorial sessions.

Mike Nitzel
Chair, PVPD Professional Development

Journal of Pressure Vessel Technology



G.E. Otto Widera

J PVT will present three special topic issues this year. The June, 2012 issue will feature papers on ASME Codes and Standards (Guest Editor: Doug Scarth) as well as an in memoriam of S.S. Chen.

Papers from the 2011 Gun Tube Conference (Guest Editor: Mordecai Perl) will be published in October in honor of the late David Kendall. In a late 2012 or early 2013 issue, JPVT will feature papers from the Flow-Induced Vibration (FIV) Symposium (Guest Editor: Njuki Mureithi). The FIV special topic will honor Dr. Frank Eisinger, who passed away in September, 2010.

We welcome a number of new Associate Editors: Haofeng Chen and Dennis Williams, Associate Editors at Large; Hardayal Mehta and David Rudland, in the Material and Fabrication area; Jianmin Qu, in the NDE Engineering area; Wolf Reinhardt, in

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Journal of Pressure Vessel Technology

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the Computer Technology area; Albert Segall and Pierre Mertiny, in the Design and Analysis area and C.S. Tsai, in the Seismic Engineering area. Spyros Karamanos and Osamu Watanabe, Associate Editors at Large, and Marina Ruggles-Wrenn, in the Design and Analysis area, are continuing on for another term as an Associate Editor. Congratulations to all of you on your appointment and welcome to JPVT.

Thanks to outgoing JPVT Associate Editors Zhangzhi Cen, Ricky Dixon, William Koves, Tribikram Kundu, Donald Mackenzie, Noel O'Dowd, Young Ho Park, Edward Rodriguez, Douglas Scarth, T. L. (Sam) Sham, Tomoyo Taniguchi and Maher Younan. Their contributions of time and expertise have helped to make JPVT an outstanding journal and are much appreciated.

While a large number of research papers are submitted to the Journal, the number of design innovation and technology review papers submitted is minimal. We especially invite you to submit your technology review papers. All papers should be submitted via the Journal Web tool at <http://journaltool.asme.org/Content/index.cfm>. An outstanding team of Associate Editors and Reviewers is committed to insuring that JPVT is the leading journal of its type in the world. Please contact Jessica Bulgrin, my assistant, via e-mail at jes-sica.bulgrin@marquette.edu or by phone at 414-288-4427 with any questions on submitting manuscripts or on the publication process. We look forward to sharing your research with our industry.

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G. E. Otto Widera, Ph. D.
Journal Editor

PVPD Programs Report



Daniel T. Peters

Preparations for the 2012 ASME Pressure Vessels & Piping Conference are almost complete. The Conference will be held in Toronto, Ontario, Canada, at the Sheraton Centre Toronto Hotel, July 15–19, 2012. The Conference Chair is Mike Nitzel, retired from Idaho National Laboratory. The Technical Program Chair is Dr. Dennis Williams, from Lawrence Livermore National Laboratory. More than 200 paper and panel sessions are planned, as well as Tutorials, the NDE and Software Demonstration Forums, and the Student Paper Symposium & Competition.

The 2013 ASME Pressure Vessels and Piping Conference is currently being planned in Paris, France. The Conference dates will be July 14–18, 2011. The PVP 2013 Conference Chair will be Dennis Williams, and the PVP 2013 Technical Program Chair will be yours truly, Dan Peters. The *Short-Form* Call for Papers has been issued, and is presented on Page 12 of this Newsletter. The *Long-Form* Call for Papers is still being worked, and will soon be available on the PVP Website at <http://www.asmeconferences.org/PVP2013>.

Daniel T. Peters
Chair, PVPD Programs

Awards Presented at PVP-2011 Conference in Baltimore, MD



Dennis K. Williams

Voluntary contributions to the Society, the PVP Division, and the pressure vessels and piping industry are recognized through a host of various ASME Society and Division honors and awards. Historically, the Honors and Awards Luncheon, held during the annual ASME Pressure Vessels and Piping Conference, is a tremendous opportunity to recognize prominent members of the Division.

The second S.Y. Zamrik Pressure Vessels and Piping Medal was presented to

Dr. W. Springer of the University of Arkansas. Dr. Springer joined the NDE Engineering Division of the American Society of Mechanical Engineers at its founding where he has been a part of their activities to emphasize the engineering aspects of non-destructive evaluation as well as the need to incorporate these principles in pressure vessel and piping design procedures. For the past ten years Dr. Springer has served as the mechanical engineering faculty adviser of the University of Arkansas Solar Boat Team which has won two international championships during that period. He has also been the recipient of the Dedicated Service Award, elected to Fellow Grade, and currently serves as the 21st Century Mechanical Engineering Chair at the University of Arkansas where he is helping coordinate a student exchange program with the Politecnico de Torino in Italy.

Four ASME Dedicated Service Awards were presented to Daniel Davis, Young W. Kwon, Ken Yoon, and Maher Younan. Long time PVPD member, Mahendra Rana, was recognized as receiving the Society level award, the ASME J. Hall Taylor Medal, which was formally presented at IMECE 2011. Dr. Young Kwon, outgoing Chair of the PVP Division (2010-2011), was presented the ASME Board of Governors Award. The PVP was also pleased to recognize a record number of nine new ASME Fellows, including David Jones, David Rudland, Bud Brust, Daniel T. Peters, Mike Porter, Dennis Martens, Poh-Sang Lam, Allen Smith, and Maher Younan. The Society congratulates all of these outstanding members in their elevation to ASME Fellow grade membership.

Division awards included the S. S. Chen PVP Outstanding Service Award, which was presented to Dennis H. Martens. Certificates of Appreciation or Recognition were presented to various individuals for services as officers for the Division and contributors to PVP2010 Conference (Technical Committee Chairs, Associate Editors of the ASME JPVT, etc.), services to Technical Committees, outstanding performance at the Bellevue, WA 2010 Conference (Papers, Sessions), or PVP2011 Conference special activities (authors of Tutorials, Plenary Speakers, Technical

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Awards Presented at PVP-2011

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Program Representatives, etc.). Awards consisting of a certificate and various monetary sums were presented to the semifinalists of the annual Student Technical Paper Competition.

Dennis K. Williams

Chair, PVPD Honors and Awards Committee

PVPD Communications



Marina Ruggles-Wrenn

All papers presented at the PVP-2011 Conference were published on a CD that was distributed to the conference attendees in their registration packets. Eight volumes of the PVP-2011 Conference Proceedings were published after the conference:

- *Codes & Standards*
- *Computer Technology and Bolted Joints*
- *Design and Analysis*
- *Fluid-Structure Interaction*
- *High-Pressure Technology, Nondestructive Evaluation, and Student Paper Competition*
- *Materials and Fabrication*
- *Operations, Applications, and Components*
- *Seismic Engineering*

Thank you to all who have worked so hard to develop the PVP-2011 program and to all the authors for their contributions. The CD and the volumes of the PVP-2011 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 every year in the 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 Marina Ruggles-Wrenn at marina.ruggles-wrenn@afit.edu.

Marina B. Ruggles-Wrenn
Chair, PVPD Communications

Division Membership



Pierre Mertiny

The positive trend in PVPD membership has continued over the past year as membership in our Division has increased to 4496 members. These numbers relate to the PRIMARY Technical Interest of members in the ASME database. Within ASME our Division remains strong with 5.4% of the total membership, which keeps PVPD sixth of 37 technical divisions and institutes based on membership numbers. For comparison, the records show 3750 member in PVPD for 2009, 4050 for 2010, and 4363 for 2011. While these numbers confirm continued growth of our Division they also indicate a slowing growth. From 2009 to 2010, and again from 2010 to 2011, PVPD membership grew by about 8% annually, whereas growth from 2011 to 2012 was only 3%. It is therefore important to intensify our efforts to recruiting new PVPD members. Please take a minute to consider who in your organization may be good member, and encourage them to become part of the ASME family. Ask your colleagues to join ASME and mark "28 – Pressure Vessels and Piping" as their primary technical interest.

Since 2009 the PVP Division also maintains a networking group on LinkedIn to foster interaction and collaboration between PVP members and interested non-members. This professional site is managed by the current membership chair and Michiel Brongers, who was the membership chair until 2011. The LinkedIn site enables you to create a personal profile (resume) and share it with others. Through creating links with your colleagues and friends, and viewing each other's contacts, excellent networking opportunities are given. Currently our LinkedIn site has over 5300 members, which corresponds to an astonishing growth of over 100% from just a year ago. The site also features nine subgroups, which are ASME B31.3 International Review Group (15 members), Codes and Standards (659 members), Computer Applications/Technology & Bolted Joints (24 members), Design and Analysis (429), Fluid-Structure Interaction (200 members), High Pressure Technology (184 members), Materials & Fabrication (469 members), Opera-

tions, Applications, and Components (35 members), and Seismic Engineering (106 members). If you haven't tried our LinkedIn site yet, then we strongly encourage you to do so. Simply visit www.linkedin.com. Join this truly global community of professionals, take part in the discussions and connect to colleagues in your field.

Pierre Mertiny

Chair, PVPD Membership

The ASME Digital Library

www.asmedl.org

ASME is the premier professional membership organization for more than 127,000 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.

The ASME Digital Library, is ASME's primary repository of current and archival literature featuring:

- ASME's Transaction Journals from 1970 to the present
- ASME's Conference Proceedings from 2002 to the present
- ASME Press eBooks selected from 1998 to the present. Initially, the eBook package will include about 50 of our newest volumes, published from 2006 through mid-2009, with up to 100 titles by 2011.

As the ASME Digital Library continues to expand, it ultimately will include the complete archive of ASME's Transactions Journals dating back to 1880. To view what is currently available, use the tabs at the top of the page to navigate to the publication of your choice, then click on the "Available Volume List."

Subscriber Information

For information describing the available subscription packages click on the [promotional flier \(PDF\)](#) in the digital library website.

PVPD International Coordination



Maher Y. A. Younan

The ASME PVPD has been active in developing international collaboration as part of the main ASME objective towards ASME globalisation. This activity has been demonstrated through several indicators

International ASME members

Overall, the number of international ASME members has been increasing throughout the world. However, the percentages of international ASME members specifying PVPD as their primary interest has also increased over the last 3 years (Fig. 1). This is an indication that the rate of increase in the PVPD of international members is even higher than the rate of increase of the total ASME members.

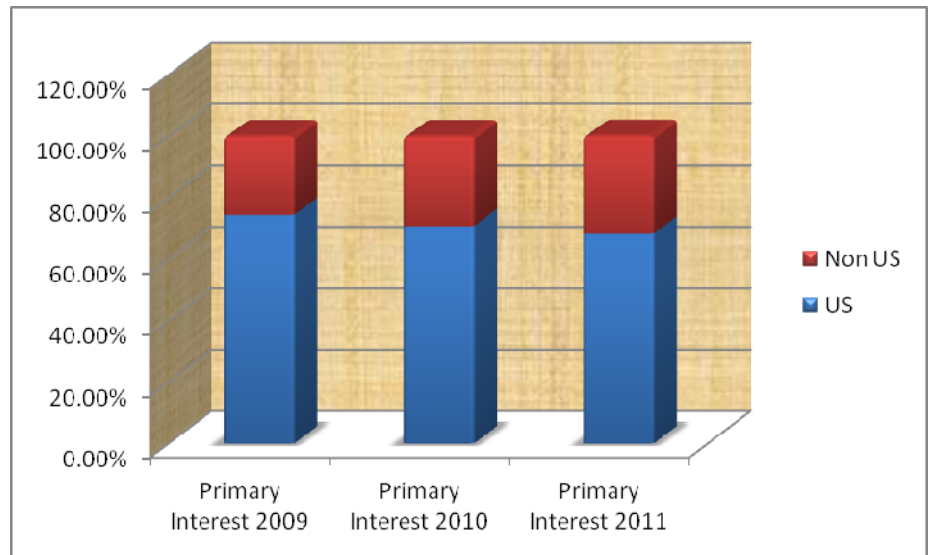


Figure 1. Percentage of US and non US ASME members over the last three years

History of papers presented at the PVP conferences

Another testimonial of the increased international interest in PVPD is the number and percentage of papers presented at the ASME-PVP conferences. Figure 2 shows the numbers of papers from different areas from the world. This figure indicates a steady increase in the number of papers from international authors over the years 1991–2011. As an example, the papers in 2011 came from 37 countries, this makes PVP truly international.

Holding PVP Conference internationally

As a positive reaction of the ASME-PVPD, to the increased international interest, the Division has held its 2009 Conference in Prague. Based on the success of that conference, the Division will be holding its 2012 Conference in Toronto, Canada, and its 2013 Conference in Paris, France.

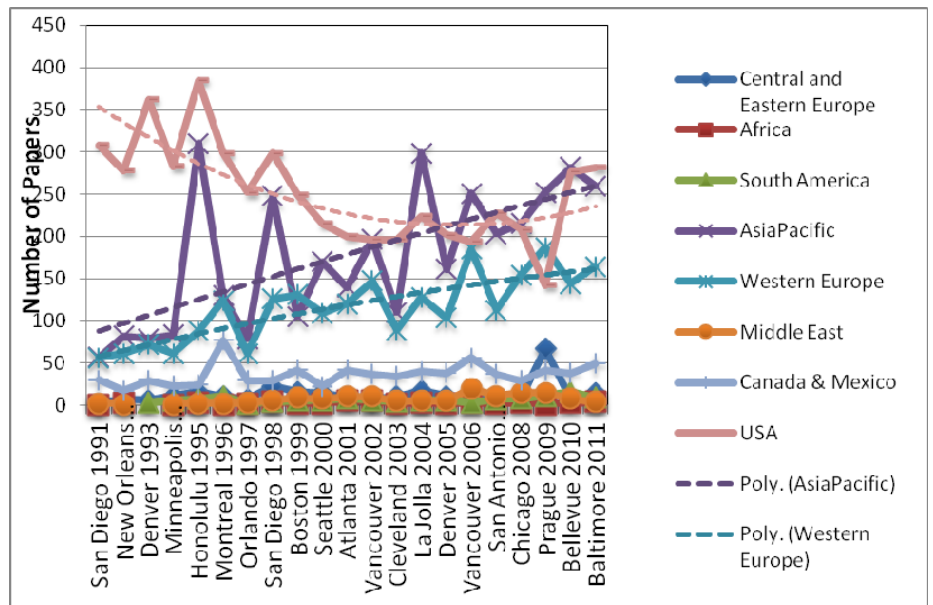


Figure 2. Numbers of papers presented at the ASME-PVP conferences over the period 1991–2011

The ASME-PVP has truly become an international conference. It belongs to the whole world.

Maher Y. A. Younan

Chair, PVPD International Coordination

If you are interested in applying for ASME Membership, please visit <http://www.asme.org/Membership/Join/> for either online or mail applications.

Technical Committee: Design & Analysis



Bill Kovacs

The D&A Technical Committee provides a forum to promote the research, development and exchange of information on design and analysis methods for the pressure vessel and piping industry. The D&A Committee focus is on advancement of traditional as well as new analysis methods in the areas of component design, pressure vessel integrity assessment, fatigue and fracture of pressure vessels and piping, plant fitness for service and life extension, elevated temperature design, composite materials and structures, computational fluid dynamics, probabilistic methods, robust design methods and emerging technologies.

Dr. Pierre Mertiny was the Technical Program Representative (TPR) for the PVP-2011 Conference. The D&A Technical Committee sponsored 31 technical sessions at the PVP-2011 Conference held in Baltimore Maryland where over 121 papers were presented.

Dr. San Iyer is the Technical Program Representative (TPR) for the current PVP-2012 Conference. The D&A Committee is planning 42 technical paper sessions, on 18 different topics, including 3 student paper sessions. In addition, two technical tutorials have been proposed to the PVPD Professional Development Committee for consideration for the PVP-2012 conference. Dr. Pierre Mertiny is the D&A coordinator for the Student Paper Competition.

The Design & Analysis Technical Committee last met on Monday July 18, 2011 in the Baltimore Marriott Waterfront, Baltimore Maryland. Twenty (20) members, one prospective member and eight guests were in attendance.

The D&A Committee welcomes one new member elected at the PVP-2011 meeting: Dr. Ahmed Dweib.

We look forward to seeing you at PVP-2012, July 15-19 in Toronto, Canada. Anyone interested in participating in the Committee activities is invited to attend the D&A Committee meeting at PVP-2012 and/

or contact the committee chair. The time and location of the committee meeting will be listed in the Conference Program.

*William J. Kovacs
Chair, Design & Analysis*

Technical Committee: Materials & Fabrications



Doug Scarth

The Materials & Fabrication (M&F) Technical Committee promotes research, development, and sharing of technical information related to material properties, development and modeling, as well as fabrication and structural integrity technologies, for piping, pipelines, components and pressure vessels. The efforts in recent years have primarily focused on fracture methodologies and subcritical crack growth with environmental effects including corrosion, hydrogen and high temperature. Areas of interest also include mechanistic materials modeling, advanced materials development including applications to nuclear new builds, fracture toughness, miniature mechanical testing, fabrication processes, composite systems, non-destructive examination (NDE), sensor technology, wall thinning, fitness-for-service, and uncertainties of material degradation and component integrity. Efforts have recently been very active in the area of dissimilar metal welds including weld residual stresses to address stress corrosion cracking. The development of materials, NDE, and fabrication technologies leads to improvement in understanding of material performance, as well as improvement in structural design, structural integrity assessment including leak-before-break, plant life management, and fitness-for-service acceptance criteria for pressure vessels and piping systems. A number of these activities are performed in collaboration with the Codes & Standards Technical Committee to support international Codes & Standards.

At the 2011 PVP Conference in Baltimore, Maryland, the M&F TPR (Track Organizer) Dr. Andrew Duncan, along with the topic/session organizers, developed 21 topics

with 55 paper sessions. A total of 176 written papers from M&F topics were included in the conference proceedings volume, which was published in the 2011 PVP Conference CD-ROM. Because of the multidisciplinary nature of the M&F Technical Committee, fourteen sessions were organized in collaboration with the Codes & Standards Technical Committee, three sessions were organized in collaboration with the Design & Analysis Technical Committee, and four sessions were organized in collaboration with the Operations, Applications & Components Technical Committee and the NDE Division. The M&F Technical Committee also sponsored the NDE Demonstration Forum. The 2011 M&F Technical Committee Meeting, held during the 2011 PVP Conference, was attended by approximately 50 members and guests. Seven new Technical Committee members were welcomed in 2011.

For the 2012 PVP Conference to be held in Toronto, Ontario, Canada, the M&F Technical Program is led by the TPR Dr. Chris Truman. A total of 49 paper sessions under 29 separate topics are planned including two sessions under Student Paper Symposium and Student Paper Competition, as well as one panel session. At present M&F had received 153 manuscripts. The M&F Technical Committee will also be sponsoring the annual NDE Demonstration Forum. We appreciate the overwhelming response and support from the authors and the pressure vessels and piping community. We expect to have another successful year at the PVP Conference in July 2012.

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 Doug Scarth at doug.scarth@kinectrics.com.

*Doug Scarth
Chair, Materials & Fabrication*

Technical Committee: Operations, Applications & Components



The Operations Applications & Components Committee provides a forum for the exchange of industry research and practice with a significant focus on the nuclear industry.

The OAC provides a global forum with participation from Asia, Europe and North America. The OAC is a great place to network, find technical support and establish long term working relationships with industry peers. In the 2011 PVP Conference in Baltimore, MD the OAC had 54 papers across 17 Technical Sessions and OAC sponsored a Tutorial Session. Ayman Cheta did a tremendous job organizing all the session developers by serving as the OAC Technical Program Representative.

The 2011 OAC Technical Committee meeting was attended by 23 members and perspective members. During the meeting several leadership changes in OAC occurred including introduction of the new OAC Vice-Chair Matt Feldman, Secretary Chris Bajwa, 2012 Technical Program Representative Garry Young and 2012 Co-Technical Program Representative Yasumasa Shoji.

Allen Smith publishes an OAC Newsletter twice each year which provides up to date happenings in the OAC. Contact Allen at adocsmith@aol.com to receive a copy.

The OAC has 9 standing Technical Subcommittees which support development of the PVP conference sessions. The Subcommittees and leaders are:

- SC-1: Safety, Reliability and Risk Assessment (N. Gupta)
- SC-2: Qualification and Testing (G. Bezdikian, G. Young and A. Ballesteros-Avila)
- SC-3: Monitoring, Diagnostics and Inspection (M. Brumovsky and I. Ezekoye)
- SC-4: Toxic Substances: Storage and Transportation (N. Gupta and Z. Han)
- SC-5: Pumps and Valves (I. Ezekoye and J. Chan)

SC-6: Operations and Maintenance of Pressure Vessels, Heat Exchangers and Structures (Y. Shoji and A. Cheta)

SC-7: Piping and Supports (A. Cheta)

SC-8: Plant Life Extension: Aging and Life Management (G. Bezdikian, and V. Shah)

SC-9: Regulations, Codes and Standards (M. Feldman, N. Gupta and C. Bajwa)

In addition, in 2012 Y. Shoji will organize the session for OAC student papers. For the 2012 PVP Conference, OAC expects to develop 18 sessions. OAC welcomes your attendance and participation at the 2012 PVP Conference in Toronto, Canada.

Steve Hensel

Chair, Operations, Applications & Components

Technical Committee: High Pressure Technology



Jan G. M. Keltjens

The High Pressure Technology (HPT) Committee focuses on design, research, development and operation of high pressure equipment and systems. The end user experience is a key topic, which provides important feedback for the development of ASME high pressure codes and standards. Furthermore, academia, exploring fundamental aspects of High Pressure Technology, is traditionally well represented.

The HPT Committee held its annual meeting during the PVP-2011 Conference in Baltimore MD. It is an international committee with representatives from over 10 countries and four continents. During PVP 2011 the committee organized technical sessions that covered various aspects of high pressure technology. Over the last years especially the coverage of impulsively loaded vessels has increased. This cutting edge technology offers many new developments which will trigger changes in other parts of the high pressure world. The sessions were well attended. Special thanks to Ed Rodriguez and Karl Simpson, the Technical Program Representatives, and to all session developers.

Ed Rodriguez and Jan Keltjens, the TPRs, are working hard in developing and planning sessions for the PVP-2012 Conference

(Toronto) on various areas of high pressure technology such as Design and Analysis, Impulsively Loaded Vessels and as session on Polyethylene production. In 2012 the David Kendall memorial session will be organized in remembrance of one of the founding fathers of the HPT Committee who passed away in 2011. It promises to become a very interesting conference.

Anyone interested in high pressure technology activities is invited to join us at the next committee meeting at PVP-2012 in Toronto.

Jan Keltjens

Chair, High Pressure Technology

Technical Committee: Codes & Standards



Kunio Hasegawa

The Codes & Standards (C&S) Committee provides a global forum to promote developments and exchange of technical information on topics related to the C&S for pressure vessels and piping. There are a multitude of consensus codes, standards, rules and guidelines on design, construction and fitness-for-service for vessels and piping in the various industrial fields in many countries. Although the evaluation methodologies are different, there is a need to obtain consistent results among these different codes. The C&S Committee has supported and promoted exchange of information at PVP Conferences over the years.

Majority of the papers in C&S are related to structural integrity methods, material information, repair and replacement, new criteria, and technical basis documents for code changes, code improvement and codification for the ASME B&PV Codes, API 579, French Codes RCC-M and RSE-M, German Guideline FKM, British Standard BS 7910, Chinese Code GB/T, Japanese Code JSME, European Flaw Assessment FITNET, etc. The C&S provides a global forum with participation from Asia, Europe and North America. It has become truly international in nature bringing together people from many countries to exchange technology

(Continued on page 9)

Technical Committee: Codes & Standards

(Continued from page 6)

and to share codes and standards developments. The C&S Committee has grown steadily through the years, and we are proud to have a large international membership.

The PVP-2011 Conference in Baltimore, MD, was very successful. The C&S Committee sponsored 16 major technical topics with 111 technical papers presented in 37 sessions. Some of these sessions were co-sponsored with the M&F Committee. One of the key topics in the C&S was ASME/NRC (Nuclear Regulatory Commission) Symposium on Nuclear Codes and Standard. The Symposium included 10 sessions: a keynote session on ASME Code Process and Incorporation into Regulations, a panel session on Current Regulatory Issues within ASME Code and eight technical paper sessions on ASME Sections III and XI activities, weld overlay and leak before break. These sessions were organized by D. Rudland, G. Stevens, B. Brust, R. Cipolla, R. Barnes, J. Sharples, R. Crane, D. Scarth and G. Wilkowsky. The Symposium attracted a large audience.

The C&S Committee meeting held during the PVP-2011 Conference was attended by 32 members and visitors. During the meeting Certificate of Recognitions was awarded to Bostjan Bezensek for his work as the PVP-2011 TPR and Certificate of Recognition was awarded to John Sharples for his excellent contributions. Naoki Miura and Naoki Soneda received the PVP-2011 the outstanding technical paper award.

The PVP-2012 Conference will be held in Toronto, Canada. At the time of preparing this newsletter, C&S has received approximately 101 papers for 30 sessions. The C&S sessions for this year's conference are being organized and led by the TPR, Bostjan Bezensek from UK. He is being assisted by Co-TPR, Doug Scarth from Canada. Coordinators for student paper competition for C&S are Koji Takahashi from Japan and Reza Adibiasl from Canada. New topics in the C&S sessions are Integrity Issues for Buried Pipes organized

Robert McGill and Steven Xu, HDPE (high density polyethylene) Pipe and Related Issues in Codes and Standards by Do-Jun Shim, Phillip Rush and Sureshkumar Kalyanam, and Use of Modern FE Methods for Code Assessment by Michael Martin and Keith Wright. We have high expectation for the upcoming conference in Toronto.

Anyone interested in the C&S Technical Committee activities is welcome to attend the Committee meeting. The Committee is open to individuals who are interested in Codes & Standards. For more information, please contact Kunio Hasegawa at hasegawa-kunio@jnes.go.jp.

*Kunio Hasegawa
Chair, Codes & Standards*

Technical Committee: Computer Technology & Bolted Joints



Hakim A. Bouzid

The Computer Technology & Bolted Joint (CTBJ) Technical Committee is a group of dedicated scientists, engineers and end-users that tackle and enhance research in both areas of computer technology and bolted joints. It provides a forum for engineers whose special focus is to promote the advancement of new theories and best practices while maintaining an awareness of the latest developments in the design and analysis of bolted joints and the development and application of computer technology and its use by the pressure vessel and piping industry. CTBJ TC also advocates proper documentation, verification, and qualification of computational tools for design and analysis.

The Committee provides technical support to the ASME SWG on Bolted Flange Joints (BPV VIII) and ASME PCC-1 Sub Committee in the development of new and updated flange design and joint assembly procedures. It addresses issues related to design and analysis of pressurized joints and fasteners, engineering process capabilities, hardware development and usage, software tools, and computational algorithms. Discussions and papers addressing the latest developments in fasteners, bolted flange gasketed joints, stuffing box technologies, tightness testing, linear and nonlinear mechanics, material behavior mod-

eling, modeling techniques, probabilistic analysis and risk assessment and manufacturing process simulations, are followed with great interest.

The Committee presented 11 technical sessions with a total of 44 papers at the 2011 PVP Conference in Baltimore, MD, including a software forum. These sessions received very positive feedback, with good discussion periods and a high level of interest.

The committee is pleased to announce that the winner of the Student Paper Symposium and Competition in the BS/MS category was a CTBJ paper presented by Nazim Ould-Brahim from Ecole de Technologie Superieure. Sincere thanks go to Technical Program Representative (TPR) Jerry Waterland from VSP Technologies for his hard work in overseeing the development of these CTBJ sessions.

For PVP-2012 in Toronto, Ontario, Canada, TPR Reza Reza Adibiasl of AMEC NSS is doing a great job in arranging twelve CTBJ sessions addressing topics of intense industry interest. The technical sessions include three sessions on Computational Methods, Modelling and Applications, six sessions on Bolted Flange Joints and Threaded Fasteners, and three sessions on Explicit Finite Element and Probabilistic Analysis. With so many pertinent session topics, we have great expectations for a very successful Conference this year.

The next Committee meeting will be held in conjunction with the 2012 PVP Conference in Toronto, Ontario. The CTBJ Technical Committee is always seeking to increase its active membership and to facilitate individuals or groups wishing to advance and/or promote the application of computational tools or bolted joint technology within the pressure vessel and piping industry.

Anyone with an interest in Computer Technology and Bolted Joint activities is welcome to attend and participate. For further information about the committee or suggestions and/or questions regarding committee issues, please contact CTBJ Chair Hakim Bouzid at 514-396-8563 or via email at hakim.bouzid@etsmtl.ca.

*Hakim A. Bouzid
Chair, Computer Technology & Bolted Joints*

Technical Committee: Fluid Structure Interaction



Jong Chull Jo

At the PVP-2011 Conference held in Baltimore, MD, USA, the Fluid-Structure Interaction (FSI) committee sponsored 6 symposia with 17 sessions including 65 papers and 4 presentations. The symposium titles were “Thermal-Hydraulic Phenomena and Interactions with Vessels, Piping, and Components,” “Flow-Induced Vibration Symposium,” “15th International Symposium on Emerging Technologies for Fluids, Structures and Fluid-Structure Interactions,” “Structures under Extreme Loading Conditions,” “Fluid Structure Interaction and Sloshing,” and “Fluid-Structure Interaction Issues in Aeronautical Engineering.” The Committee also sponsored three student paper competition sessions in the FSI area. The “Flow-Induced Vibration Symposium” was dedicated to the memory of the late Dr. Frank Eisinger, who was an active participant and important contributor to the symposium over the years.

At PVP-2011, the FSI Committee sponsored a tutorial, “Flow-Induced Vibration of Heat Exchangers and Steam Generators,” led by Michel J. Pettigrew. The tutorial was successful and attracted many attendees, and an intensive discussion followed. George Papadakis served as FSI Technical Program Representative (TPR) for the conference and received the Certificate of Recognition for his hard work. Stanley Jones and Shigeru Itoh received the Certificate of Appreciation for their FSI Technical Committee Services. George Papadakis and Liang Lu received an outstanding technical paper award in the FSI area, for their paper presented at the PVP 2010 Conference. Kuzuaki Inaba received the G.E.O. Widera Literature Award.

A total of 36 members and guests attended the FSI Committee meeting held during the 2011 PVP Conference. At the meeting, Shigeru Itoh, Howard Levine, and Christina Giannopapa were newly nominated as the Leaders of Task Group (TG)2 Fluid-

Solid/Media-Structure Interactions, TG4 Shock & Wave Propagation, and TG6 Multiphysics, respectively. Six symposia are being organized for PVP-2012. Hirofumi Iyama serves as FSI TPR for the 2012 PVP Conference. For PVP 2013 and PVP 2014, Arris Tijsseling and Kazuaki Inaba will serve as FSI TPRs respectively.

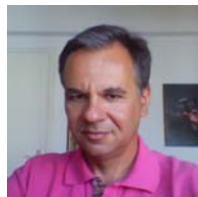
In honor of the late Dr. S. S. Chen who passed away in February 2012, Young Kwon and M. K. Au-Yang are organizing a special session with invited speakers at the PVP-2012 in Toronto, Canada. Dr. Chen made major contributions to the FSI Committee.

Since last May, the FSI Technical Committee welcomed 6 new members: Jihui Geng, Stefan P.C. Belfroid, Woo-Gun Sim, Kazuaki Inaba, Pravin Sawant, and Toshiaki Watanabe. The FSI committee is continuously seeking new members worldwide. 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 who is interested in the Committee’s activities is welcome to attend the FSI Committee meeting to be held during the PVP Conference.

Jong Chull Jo

Chair, Fluid Structure Interaction

Technical Committee: Seismic Engineering



Spyros Karamanos

The Seismic Engineering Technical Committee (SETC) is focused on the promotion and enhancement of the study and application of seismic engineering, as it relates to the design and operation of pressure vessels, liquid storage tanks, piping systems and other structural systems and components. 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 qualification;

damping and energy dissipation; seismic isolation and vibration control; seismic testing 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.

At the 2011 PVP Conference in Baltimore, the SETC had 9 sessions with 35 papers, as well as Gerry Slagis’ popular Forum on Seismic Design of Piping Systems. Cheryl O’Brien was the Technical Program Representative (TPR). In the upcoming 2012 PVP Conference in Toronto, Canada, Tomoyo Taniguchi will be the SETC TPR. In Toronto, the SETC will have 11 sessions ranging from linear and nonlinear structural dynamics, new reactor licensing activities, and seismic isolation systems with 40 papers, as well as a Forum on Appropriate Criteria and Methods for Seismic Analysis and Design of Piping Systems, once again presented by Gerry Slagis. The SETC officers are: Chair, Spyros A. Karamanos; Vice Chair, Tomoyo Taniguchi; and Secretary, Chong-Shien Tsai. Tomoyo Taniguchi will also serve as the SETC TPR for the 2013 PVP Conference in Paris, France. Spyros Karamanos and Chong-Shien Tsai are currently Associate Editors of the ASME Journal of Pressure Vessel Technology (JPVT).

Seismic engineering is a crosscutting discipline that interacts with many other technical specialties. Since 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 PVP SETC to contact me at +30 24210 74086, or via email at skara@uth.gr.

Spyros A. Karamanos
Chair, Seismic Engineering

The Passing of S. S. Chen



Shoei-Sheng Chen, distinguished member of the PVP Senate, passed away at his home on Saturday, February 11, 2012. The following is

S. S. Chen adapted from S.S.' official obituary, as published in the memorial cards handed out at his funeral.

Shoei-Sheng Chen was born in 1940 in Ko-Lin village in Dong-Shan County of I-Lan, Taiwan. He was the youngest of five girls and two boys. While his family tended to their farm, S.S. had a love and gift for studying. He was the first in his town to attend high school and eventually graduated at the top of his class in engineering at National Taiwan University. After receiving a scholarship to study in the U.S., he completed his PhD at Princeton University in 1968. He took a job shortly thereafter as a civil and mechanical engineer at Argonne National Laboratory in Darien, Illinois, and would hold this position for over 30 years. In 1987, he published a technical book about fluid dynamics that is still being used in the profession today.

He met his spouse, Ruth Cha-Fang Lee, in the

U.S. and they were married June 28, 1969. They settled in Willowbrook, Illinois, and had three children, Lyrice, Lisa and Steve. In 1987, S.S. was diagnosed with nasal-pharyngeal cancer. It was during this crisis that S.S. accepted Christ and was reborn with new life. He entered into the busiest period of his life, with his active participation in various communities and organizations. He was heavily invested with his professional society, the ASME's Pressure Vessels & Piping Division, chairing the national Conference in 1995. S.S. and Ruth also owned and ran United Investment Realty, the most prominent of various entrepreneurial ventures he undertook throughout his life. His primary spiritual community was Chinese Christian Mandarin Church, where he served as a deacon.

In 2001, S.S. and Ruth retired to Laguna Niguel, California, and S.S. began the next chapter of his life devoted to health and natural methods of disease prevention. Though he suffered a number of physical setbacks during this decade, he was committed to spreading his research on natural health. He merged all of the years of his research in science, health, and faith, combining mind, body, and soul. The culmination was a miracle recovery from a host of diseases and hospitalization in 2010. During these years, S.S. and Ruth shared in the community and fellowship of Peace Evangelical

Formosan Church of Saddleback Valley.

Despite the physical adversities he constantly faced, he would always remind those nearby that he was living in "heaven in the real world." Now he is truly at peace in eternal life.

S.S. is survived by his wife Ruth; his three children, Lyrice, Lisa, and Steve; five grandchildren Elizabeth, Jessica, Anna, Claire, and Isaac; and one grandchild about to be born any minute now.

The funeral service was held 10:00am on Friday, February 17, 2012, at Pacific View Mortuary Chapel, in Corona Del Mar, CA. The graveside service was held immediately afterwards at Pacific View Memorial Park. In order to recognize S.S.' longstanding contributions to PVP, the Division was represented at both ceremonies by our Division Chair, Ronald S. Hafner. F.L. (Bill) Cho, another longstanding member of PVP, was also in attendance.

The Guest Book for S.S. will be kept open until February 2013 by Pacific View Memorial Park and Mortuary. For those who wish to do so, please visit the Guest Book at <http://www.legacy.com/guestbook/DignityMemorial/guestbook.aspx?n=shoei-sheng-chen&pid=155877734&eid=viewgb> to add your memories and condolences.



PVP 2013

Paris, France

*Paris Marriott Rive Gauche
Hotel & Conference Center*

July 14–18, 2013

ASME Pressure Vessels and Piping Conference

The International Scene of Pressure Vessels and Piping

The ASME 2013 PVP 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 ASME Pressure Vessels and Piping Division is the primary sponsor of the PVP-2013 Conference, with additional participation by the ASME Nondestructive Examination (NDE) Division. More than 175 paper and panel sessions are planned, as well as workshops, tutorials, NDE and Software Demonstration Forums, and the ASME PVP Student Paper Competition & Symposium.

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; (10) the Student Paper Competition and Symposium.

SCHEDULE: Abstracts are due by **November 11, 2012**. Authors will be notified of abstract acceptance by **December 5, 2012**. Draft papers are due by **February 13, 2013**. Paper peer review comments will be returned by **March 12, 2013**. A Copyright Agreement Form for each paper and the final manuscripts in the standard ASME format for publication must be received by **April 9, 2013**. All presented papers will be published via CD-ROM.

INFORMATION: The Paris Marriott Rive Gauche is one of Europe's finest conference hotels and is conveniently located near the Paris Metro, providing attendees with easy transportation to many of the city's major tourist attractions. Come join your colleagues and visit such notable attractions such as the Eiffel Tower, Jardins du Luxembourg, the Panthéon, Arc de Triomphe, École Militaire, and a host of other breath taking attractions.

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