

## Pressure Vessels and Piping Division Newsletter

Les Antalffy, Editor

Spring 2010

### A Message from the PVP Division Chair



Luc H. Geraets

Pressure Technology Group of the Knowledge and Community Sector.

Through the efforts and the dedication of scores of enthusiastic volunteers, sustained by the support of their employers from industry and academia, PVPD serves as an excellent model for advancing the mechanical engineering profession. This includes:

- Conference management training
- Executive leadership training
- Undergraduate and graduate student paper competitions and awards
- Technical Tutorials and Workshops
- Collaboration with local ASME Chapters at the PVP conference locations.

The PVP Division promotes a global exchange of information on Pressure Vessel and Piping technologies, design and operations, in particular through the organization of its annual Conference. The conference fosters cooperation among specialists from countries with both mature

technical programs and emerging technologies. Attendees include engineers, scientists, technology developers, equipment suppliers, government officials and utility representatives. Each year, hundreds of volunteers, in all eight Technical Committees of the PVP Division, are involved in organizing technical sessions, offering technical tutorials, authoring technical papers and contributing to the publication of the Journal of Pressure Vessel Technology. Today, the Journal of Pressure Vessel Technology has become internationally recognized as the leading publication in its field.

After a first expedition outside of North America last year, with the milestone of the Prague (Czech Republic) Conference, this year our conference will be held in Bellevue/Seattle, WA, USA, under the leadership of our colleagues Dr. Young Kwon as the Conference Chair and Ron Hafner as the Technical Program Chair. You are all invited to join us and be part of this unique experience. Participation in our conferences provides an opportunity to remain current with new and emerging technologies for all.

The management voting body of the Division is the Executive Committee. Co-opted volunteers serve for six full years on the Executive Committee. During those years, they serve as Committee Chairs, tutored by

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### Message from the Conference Chair



Young W. Kwon

The conference is jointly sponsored by ASME PVP Division, NDE Division, and KPVP (Korean Society of Pressure Vessel and Piping). The conference theme is *Pressure Vessel Technologies for Energy Challenge*. We have received almost 750 papers on eleven technical tracks including more than 40 student papers for competition at both BS/MS and PhD levels, representing all over the world. In addition to the technical paper sessions, panel sessions are also included in the program. Three tutorials are being planned and will be given on Monday, July 19, Tuesday, July 20, and Wednesday, July 21, 2010. The NDE Demonstration Forum and Software Demonstration Forum are scheduled for Monday, July 19, and Tuesday, July 20, 2010, respectively.

The Conference Plenary Session is on Monday, July 19, 2010. ASME President Mr. Robert Simmons will give an Opening Remark. In addition, Dr. Leonard Bond will present "Moving beyond NDE to Proac-

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The Pressure Vessels and Piping Division (PVPD) has been created in 1966 as one of the 32 Divisions of ASME. PVPD is a member of the ASME

reparations are going well for the PVP-2010 Conference to be held at the Bellevue Hyatt hotel in a suburb of Seattle, Washington, July 18-22, 2010.

## Division Chair Message

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the Senate and Senior Executive Committee members, take part in numerous Executive Committee meetings, and attend annual Spring and Fall retreats. After the first four years, they successively become the Division Vice-Chair and the Division Chair.

I am proud and honored to serve this year as the Chair of the Pressure Vessel and Piping Division. Through my association with the Division over the past 27 years, I have developed many new and long lasting friendships (PVP is a family!) and a network of professionals with diversified technical backgrounds. I had the pleasure of working and will continue to work with an outstanding group of people all around the world.

PVP Division is contributing to the Goals, the Mission, and the Vision of ASME. While we are proud of our 44-year history for being one of the ASME's most viable divisions, we will continue to build to lead to a bright future, while remaining one of the pillars of the ASME's organization. We want to maintain the "PVP Family" tradition by continuing to engage experts from industry and academia, university students and early career engineers through our technical paper competitions and the Division's Honors and Awards programs.

I wish you all the very best.

Warmest regards,  
Luc H. Geraets  
Chair, PVP Division

## Conference Chair Message

(Continued from page 1)

ive Management of Materials Degradation" and Prof. Young-Jin Kim will speak on "Tomorrow of Nuclear Power in Korea".

We have also planned for exciting social events beginning with the conference-wide reception on the evening of Monday, July 19, 2010, and a wonderful conference social program with **Dinner Cruise on the**

**Royal Argosy** for the evening of Wednesday, July 12, 2010, which will provide a unique experience on Elliott Bay with breathtaking views, the city skyline and mountain ranges while savoring an exquisite dinner. There will be two separate sightseeing tours for the families and guests on Monday, July 19 and Tuesday, July 20, 2010. The Monday tour is **Seattle and Bellevue City Highlight Tour** and the one on Tuesday is **Waterfalls, Chocolate, and Wine Tour**.

Please visit the conference web site at <http://www.asmeconferences.org/PVP2010> for more detailed information on both technical and social activities. Please make sure that you complete your registration for the conference and for the hotel prior to the cut-off dates indicated on the registration forms.

As a final note, I would like to express my sincere thanks to all who have helped me with preparing for the conference as well as all sponsors to the conference. Without them, I could not prepare the conference successfully. I look forward to seeing you in beautiful Bellevue, Washington in July.

Young W. Kwon  
PVPD Conference Chair

## ASME Honorary Membership Medal



Dr. Sam Zamrik

**D**r. Sam Zamrik is about to receive the ASME Honorary Membership Medal, one of the two highest ASME awards. The Honors Committee recommended Dr. Zamrik's election at ASME's 2010 Annual Meeting in Pittsburgh in early June and ASME's Board of Governors voted their approval.

Dr. Zamrik will receive his medal at the ASME Honors Assembly in Vancouver in November. This is indeed a notable achievement for Dr. Zamrik.

## Professional Development Report



Michael E. Nitzel

**O**ne workshop, a Sunday afternoon Special Panel Session, and three technical tutorials are planned for the upcoming 2010 PVP Conference in Bellevue, Washington. Please find time in

your conference schedule to attend these informative sessions. Following are brief descriptions of the presentations in each category.

### Workshop

#### Best Practice In Non-Destructive Testing

Sunday, July 18, Part I 9:00 am – 11:30 am and Part II 1:00 pm – 3:30 pm.

This workshop has been organized by the Certification Executive Committee of the European Federation for NDT (EFNDT) and sponsored by the British Institute of NDT and will be presented in two parts. The workshop is intended to promote the application of 'best practice principles' during inspection and testing during production and in service of pressure equipment. Each of the two sessions will take the form of a number of 20 – 30 minute PowerPoint presentations, followed by open discussion workshops.

Part I will focus on standards and regulations applicable to NDT, including:

- Third party certification standards, ISO 9712 and EN 473, and how they should be applied by independent bodies having the support of industry.
- The roles of accreditation bodies, certification bodies and authorized qualifying bodies in ensuring the implementation of best practice in the training, qualification and certification of NDT personnel.
- NDT personnel qualification and certification developments in ASME.
- Assessment and approval of NDT personnel under European directive 97/23/EC (AKA the PED).

Part II will feature presentations providing

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## Professional Development

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guidance and recommendations resulting mainly from funded research projects, including:

- Best Practice for the procurement and conduct of Non-Destructive Testing, referring to the EFNDT Guide.
- Introduction to the UK HSE Best Practice Guides for NDT.
- Advanced UT – Best Practice for introduction and use of TOFD, UTPA and other advanced NDT techniques.
- Qualification of NDT procedures and personnel for safety critical inspections.

### Tutorials

#### Special Panel Discussion

##### **Developing Young Engineers**

Sunday, July 18 from 4:00 pm - 6:00 pm.

##### **Jaan Taagepera**

Mr. Jaan Taagepera will be the moderator that guides this open forum discussion focusing on developing, retaining, and promoting technical competence in early career engineers. The moderator and panel will introduce a variety of issues for discussion including developing a meaningful technical career ladder, providing real advancement opportunities for technically oriented engineers to grow within an organization, providing meaningful, challenging work, developing respect and recognition for technical talent within an organization, and other pertinent topics.

#### Technical Tutorial I **Nuclear Components Design-by-Analysis Concepts, Stress Limits, and Technical Basis**

Monday, July 19, 2:00 pm – 5:45 pm.

##### **Gerry Slagis, G. C. Slagis Associates**

The objective of this tutorial is to provide an in-depth review of the design rules for Section III nuclear components as given in NB-3200. These rules are based on the design-by-analysis approach first specified in the 1963 issue of Section III. The basic concepts of primary stress, secondary stress, and peak stress are the starting points. Stress limits, failure modes and the inherent factors of safety are discussed. The concepts of shakedown to

elastic action, shakedown to plastic cycling, and ratcheting and the implications for the fatigue evaluation are reviewed. The history of the development of the fatigue design method and generation of design curves is illustrated for understanding the current issue of environmental effects. Various technical issues on stress classification and finite element analysis are discussed for an understanding of proper application of the design-by-analysis rules.

#### Technical Tutorial II

##### **Introduction To The Process Piping Code, ASME B31.3**

Tuesday, July 20, 8:30 am – 12:15 pm.

##### **Charles Becht IV, Becht Engineering Co., Inc.**

This tutorial provides an overview of ASME B31.3 rules for process piping. The instructor, a long-term member of B31.3 and its current chair, will describe not only the rules, but their intent, to provide an overall understanding of the Code. Design, materials, fabrication, examination and testing will all be covered, as well as rules for special systems such as Category M, high pressure and nonmetallic piping.

#### Technical Tutorial III **Flaw Evaluation In Piping Systems**

Wednesday, July 21, 8:30 am – 12:15 pm.

##### **Claude Faidy, EDF**

##### **Doug Scarth, Kinetrics**

##### **Bob Ainsworth, British Energy**

##### **Kunio Hasagawa, JNES**

Flaw evaluation in piping systems is a key issue for many industries concerned by pressure piping, and in particular for safety in nuclear power plants. In the same time different countries have developed their own rules in connection with their particular needs. This tutorial will be focused on the general procedure to evaluate piping integrity with cracks and it is an opportunity in the same time to identify the specific topics that are considered in four Codes or Rules: ASME Section XI, RSEM/RCCMR, BS/R6 and JSME Fitness for service. A sample of the tutorial topics includes:

- a general introduction
- the elastic KI handbook
- the J evaluation scheme
- the consequences of welds.

Please check your conference program and/or posters located in the conference registration area for the room assignments for the workshop, special panel session, and the technical tutorials.

Mike Nitzel

Chair, PVPD Professional Development

## Journal of Pressure Vessel Technology



G.E. Otto Widera

We would like to welcome three new Associate Editors to JPVT: Dr. Hakim Bouzid, in the areas of Computer Technology and Bolted Joints Committee; Dr. Som Chatopadhyay in the Codes and Standards area; and Dr. Jong Chull Jo in the area of Fluid Structure Interaction. A most sincere thank you to the JPVT Associate Editors whose terms expire at the end of 2010: F.W. (Bud) Brust and L. Ike Ezekoye. Sincere thanks to both of them for their time and their contributions to the success of the Journal. The Journal could not be published without the efforts of all the associate editors and the efforts of a large group of dedicated reviewers, thank you for your service.

We are currently working a group of papers for a special fluid interaction section in an upcoming issue of JPVT. Dr. Njuki Mureithi is coordinating this special section of the journal

While a large number of research papers are submitted to the Journal, the number of design innovation and technology review papers submitted is minimal. Thus, I extend a special invitation to you to send us the latter type of 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 [jessica.bulgrin@marquette.edu](mailto:jessica.bulgrin@marquette.edu) or by phone at

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## Journal of Pressure Vessel Technology (JPVT) News

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414-288-4427 with any questions you have on submitting manuscripts or on the publication process. We look forward to sharing your research with our industry.

If you or your company are not yet subscribing to either the hard copy or the electronic version of *The Journal of Pressure Vessel Technology*, you can do so on-line at [http://www.asme.org/Publications/Journals/Order\\_Subscribe.cfm](http://www.asme.org/Publications/Journals/Order_Subscribe.cfm) or by contacting ASME Customer Service at the e-mail address or phone number shown below:

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or 1-973-882-1170

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

## Dr. Widera honored as Engineer of the Year

Dr. G.E.O. (Otto) Widera received the 2009 *Engineer of the Year* award from Engineers & Scientists of Milwaukee (ESM) at the recent 57th Annual Engineers' Week banquet. This prestigious award is presented annually to "an outstanding contributor to the engineering profession from the greater Milwaukee area who has helped raise the visibility of the profession and ESM, while also serving as a role model to others who have or may select the engineering profession as a career."

Dr. Widera, professor of mechanical engineering, received his B.S., M.S., and Ph.D. degrees from the University of Wisconsin - Madison. He joined the University of Illinois - Chicago in 1965 and in 1982 became chair of the mechanical engineering department. In 1991, Dr. Widera joined Marquette's mechanical engineering department as chair. Since then, he served twice as interim dean of the college and was senior associate dean from 1999-2007. He also held interim appointments at the Ladish

Company and Argonne National Laboratory, was a von Humboldt Fellow at the University of Stuttgart and served as a consultant to the National Institute of Standards and Technology and to a number of corporations.

Dr. Widera currently serves as editor of the American Society of Mechanical Engineers (ASME) *Journal of Pressure Vessel Technology*. He has also served as chair of the ASME Research Committee on Pressure Vessels and on its Board of Pressure Technology Codes and Standards. More recently, he was a member of the Board of Directors of the Wisconsin Center Manufacturing Productivity and ESM, and was president of the Wisconsin Association of Research Management. He also served as chair of the ASME Pressure Vessel and Piping Division and of the 21-country International Council on Pressure Vessel Technology. For three years, he was a vice-president of ASME.

A life fellow of ASME, Dr. Widera is currently a member of the boards of directors of the Welding Research Council and the Material Properties Council. In 1995, in recognition of his contributions to the profession, he received an ASME lifetime achievement award, the Pressure Vessel and Piping Medal, and in 2009 he received ASME's Dedicated Service Award.

## PVPD Senate Student Paper Symposium and Competition



James F. Cory, Jr.

VP students will present 44 outstanding papers at PVP 2010. Abstracts and final papers were received from students in 15 countries. The Student Paper Symposium and Competition includes a total of 10 sessions, with 15 BS/MS and 29 PHD participants. The PVP Senate greatly appreciates the help of the PVP Technical Committees and the NDE Division in development of the sessions. We ask all PVP attendees to visit one of the Student Symposium sessions and enjoy the high qual-

ity presentations. The PVP Senate welcomes students to Seattle, and would like to thank AREVA again this year for its generous support of the Symposium.

James F. Cory, Jr.  
PVP Senate

## PVPD Programs Report 2010



Ronald S. Hafner

Planning for the 2010 ASME/K-PVP Pressure Vessels & Piping Conference is well under way. A joint Conference with the

ASME Pressure Vessels and Piping Division and the Korean Society of Pressure Vessels and Piping, the Conference will be held in Bellevue, Washington, at the Hyatt Regency Bellevue Hotel. The Conference dates are July 18-22, 2010. The PVP Conference Chair is Professor Young W. Kwon, of the U.S. Naval Postgraduate School, and his K-PVP counterpart is Dr. Tae Eun Jin, of the Korea Power Engineering Company. The Technical Program Chair for the Conference is Ronald S. Hafner, of 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 2011 ASME Pressure Vessels and Piping Conference is currently being planned for the Inner Harbor area of Baltimore, MD, at the Baltimore Marriott Waterfront Hotel. The Conference dates will be July 17-22, 2011. The PVP 2011 Conference Chair will be Ronald S. Hafner, and the PVP 2011 Technical Program Chair will be Michael E. Nitzel. The *Short-Form* Call for Papers has been issued, and is presented on Page 11 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/PVP2011>.

Ronald S. Hafner  
Chair, PVPD Programs

## Awards Presented at PVP 2009



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, which is held during the annual ASME Pressure Vessels and Piping Conference, is a tremendous opportunity to recognize prominent members of the Division.

The Pressure Vessels and Piping Medal was presented to Dr. Charles (Chuck) Becht, IV. In addition to his many contributions to the PVP Division, Chuck has been a major contributor to ASME Codes and Standards activities that require a combination of hard work, diplomacy, and technical leadership ability. Dr. Becht chaired the Post Construction Standards Committee beginning in 2001, the B31.3 Subcommittee since 2005, and the Subgroup on Elevated Temperature Design from 1996 through 2002. He led the project to incorporate new weld joint strength reduction factors in the creep regime into B31.3 and has contributed extensively to the development of new Code rules for composite pressure vessels to be used in high pressure hydrogen transport and storage.

Two ASME Dedicated Service Awards were presented to Mahendra D. Rana and to G. E. O. (Otto) Widera, current Editor of the ASME JPVT. Artin A. Dermenjian, as Chair of the PVP Division (2008-2009), was presented the ASME Board of Governors Award. The PVP was also pleased to recognize William N. McLean, Stephen R. Gosselin, and Ricky Dixon in their elevation to Fellow grade membership of the ASME.

Division awards included the S. S. Chen PVP Service Award, which was presented

to L. Ike Ezekoye. Certificates of Appreciation or Recognition were presented to various individuals for services as officers for the Division and contributors to PVP 2008 (Technical Committee Chairs, Associate Editors of the ASME JPVT, etc.), services to Technical Committees, outstanding performance at the Chicago 2008 Conference (Papers, Sessions), or Conference special services for PVP2009 (authors of Tutorials, Plenary Speakers, Technical Program Representatives, etc.). Awards consisting of a certificate and various monetary sums were presented to the semi-finalists of the Student Technical Paper Competition, which was comprised of sixteen international student authored papers.

Dennis K. Williams  
Chair, PVPD Honors and Awards

## PVPD Communications



Daniel T. Peters

Volunteers are still the key to success of the PVP conference. This includes everyone who have spent countless hours as Track Organizers and Session Organizers. The CD including the PVP proceedings and Post Conference proceedings include pages recognizing the outstanding effort of these individuals.

The Pressure Vessel and Piping Division can now has its own group on the LinkedIn.com site. Membership Chairman, Michel Brongers, is administering the Group for the Division. The number of folks linked to the group is growing steadily since its start in mid-2009. There are 408 members of the PVP Group on LinkedIn as of this writing. There are also many active discussion threads on the site. There are also eight active Sub-Groups corresponding to each of the Technical Divisions of PVP.

Many engineers today are using LinkedIn for discussions and networking on a professional level. PVP is embracing this and encouraging the membership to utilize this

forum as one more method of exchanging ideas, discussing pertinent technical topics, and finding others to answer questions on technical topics relevant to their common industry. The following web link will take you directly to the Pressure Vessels and Piping Division page:[http://www.linkedin.com/groups?home=&gid=1794527&trk=anet Ug\\_hm](http://www.linkedin.com/groups?home=&gid=1794527&trk=anet Ug_hm)

Mr. Les Antalffy will assume the responsibility as Communication Chair as of July 2010. I sincerely appreciate all the support and help from everyone, especially all Technical Committee Chairs, Track Organizers, Topic/Session Organizers for the past year. I also kindly request the same support for Les as the Incoming Communication Chair.

Daniel F. Peters  
Chair, PVPD Communications

## Division Membership



Michiel P.H. Brongers

PVP membership, defined as the primary Technical Interest of members in the ASME database, has remained constant at approximately 4100 members. While total ASME membership declined a few percentage points in 2010, the division remains strong at 4.3% of the total. This keeps PVP as 6<sup>th</sup> of 37 technical divisions and institutes within ASME, with regard to membership.

It is important to keep recruiting new PVP members, and the best way to do that is to ask our colleagues to join ASME and mark "28 - Pressure Vessels and Piping" as their primary technical interest. Please take a minute to consider who in your organization may be good member, and encourage them to become part of the ASME family. As you already know, membership can continue throughout an engineer's career, and is a key to meeting

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## Division Membership

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people and staying up to date with the latest advancements in our field.

Last year, we started a networking group on LinkedIn. This professional site allows you to create personal profile (resume) and share it with others. You can link with your colleagues and friends, and see each other's contacts. In its first year, the group has grown to 376 members. I am amazed! Almost 10% of our PVP members have found the site without any advertising on my part! I checked this morning (04/26/10), and there were 23 active discussions, in addition to ASME news, and job postings in the group. That is great, and I hope you give it a look at [www.linkedin.com](http://www.linkedin.com)

We further created subgroups for each of the division's committees. We encourage you to take part and join in the discussions of those subgroups too. At this time, the membership of the subgroups is: Codes and Standards (52), Design and Analysis (48), Materials & Fabrication (30), High Pressure Technology (22), Operations, Applications, and Components (16), Seismic Engineering (15), Fluid-Structure Interactions (13), and Computer Applications/Technology and Bolted Joints (9).

As we continue to grow our division into the future, this web site allow us to communicate more freely. Use it to your advantage.

Please renew of apply for ASME membership by registering online: [Member / Student Application](#), or by downloading and mailing the [membership application](#) or [student application](#). Alternatively, you can call: 1-800-THE-ASME (800-843-2763) or outside North America 973-882-1167 and ASME will mail you an application, or you can e-mail to [infocentral@asme.org](mailto:infocentral@asme.org) and request an application.

Sincerely,  
Michiel P.H. Brongers  
Chair, PVPD Membership

## Technical Committee: Design and Analysis



Marina Ruggles-Wrenn

The D&A Technical Committee provides a forum to promote the 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 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, and robust design methods.

The D&A Technical Committee sponsored 24 technical sessions at the PVP-2009 Conference held in Prague, Czech Republic, where over 112 papers were presented. The Committee is planning 30 technical sessions as well as two student paper sessions for the PVP-2010 Conference in Bellevue (Seattle), Washington. The Committee met on July 30, 2009 in Prague, Czech Republic. The meeting was attended by 14 members, two prospective members, five guests, and PVPD Senator W. Bees. The D&A Committee welcomes two new members elected at the PVP-2009: D. Vlaicu and Y. Takahashi. Several new prospective members will be considered at the upcoming PVP-2010 Conference.

We look forward to seeing you at PVP-2010 Conference in Bellevue (Seattle), Washington. Anyone interested in participating in the Committee activities is invited to attend the D&A Committee meeting at PVP-2010 and/or contact Prof. Ruggles-Wrenn ([marina.ruggles-wrenn@afit.edu](mailto:marina.ruggles-wrenn@afit.edu)).

Marina B. Ruggles-Wrenn  
Chair, Design and Analysis

## Technical Committee: Materials and Fabrications



Doug Scarth

The Materials and Fabrication (M&F) Technical Committee promotes research, development, and sharing of technical information related to material properties, development and modeling, as well as fabrication technologies, for piping, pipelines, components and pressure vessels. The material 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, fabrication processes, and computational and statistical methods including risk-informed. Fabrication efforts have recently been very active in the welding and residual stress areas. 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, plant life management, and fitness-for-service acceptance criteria for pressure vessels and piping systems.

At the 2009 PVP Conference in Prague, Czech Republic, the M&F TPR (Track Organizer) David Rudland, along with the topic/session organizers, developed 20 topics and symposia, with 43 paper sessions. A total of 186 written papers from M&F topics were included in the conference proceedings volume, which was published in the 2009 PVP Conference CDROM. Because of the multidisciplinary nature of the M&F Committee, three sessions were organized in collaboration with the Codes and Standards Committee, and five sessions were organized in collaboration with the NDE Division. The M&F Committee

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

## Technical Committee: Materials and Fabrications

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also sponsored the NDE Demonstration Forum. The 2009 M&F Committee Meeting was held during the 2009 PVP Conference, and was attended by approximately 45 members and visitors.

For the 2010 PVP Conference to be held in Bellevue (Seattle), Washington, the M&F Technical Program is led by the M&F TPR Bruce Wiersma. At the time of preparing this newsletter, M&F has received 171 manuscripts, with approximately 50 paper sessions under 21 separate topics, in addition to 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 2010.

The M&F 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](mailto:doug.scarth@kinectrics.com).

*Doug Scarth  
Chair, Materials and Fabrication*

## Technical Committee: Operations, Applications and Components



*Dennis Martens*

The Operations, Applications and Components Committee provides a forum for the exchange of industry research and practice with a significant focus in the nuclear industry. The OAC is a great place to network, find technical support and establish long term working relationships with industry

peers. This is emphasized by the PVP 2009 conference in Prague, Czech Republic where the OAC committee developed 15 Sessions, 78 papers and 1 panel discussion.

The PVP 2009 OAC committee meeting was attended by 20 members and perspective members. During the meeting these members were recognized by the H&R Chair Dennis Williams; Matt Feldman received recognition for his successful 2009 TPR work; Chris Bahwa received recognition for his Co-TPR for 2009; Milan Brumvosky for his long and outstanding contribution to the OAC; Igor Varfolomey and Alan Martin for the best OAC paper at PVP 2008; Dennis Martens, OAC chair recognized and thanked Allen Smith for his continued excellent effort of publishing the OAC committee newsletter several times each year which includes information such as committee meeting minutes, subcommittees and their organizer's and committee members listings with contact information. Please contact Allen at [allen.smith@sml.doe.gov](mailto:allen.smith@sml.doe.gov) to obtain a copy of the news letter or to provide information for future Newsletters.

The OAC continues to discuss methods to gain and mentor new members and fostering recognition of OAC members for their support and participation in OAC and PVP. The committee has many long term members that are active in all areas of committee and PVP activities. We, as the PVP community, must strive to continue the recognition of our members as their participation is what sustains PVP from year to year.

The OAC committee has 9 standing Technical Subcommittees which support the development of the PVP conference sessions. These committees are organized to represent the many facets of Operations, Applications and Components Engineering for all industries. These Technical Subcommittees and the responsible OAC members are:

- SC-1: Safety, Reliability and Risk Assessment (Mansoor Sanwarwalla and Bill Cho)
- SC-2: Qualification and Testing (Georges Bezdikian, Garry Young and Antonio Ballesteros)

- SC-3: Monitoring, Diagnostics and Inspection (Milan Brumvosky, Ike Ezekoye)
- SC-4: Toxic Substances: Storage and Transportation (Nick Gupta and Cecil May)
- SC-5: Pumps & Valves (Ike Ezekoye and Jim Chan)
- SC-6: Operations and Maintenance of Pressure Vessels, Heat Exchangers, and Structures (Yasumasa Shoji and Ayman Cheta)
- SC-7: Piping & Supports (Ayman Cheta)
- SC-8: Plant Life Extension: Aging and Life Management (Mansoor Sanwarwalla, Georges Bezdikian and Vik Shah)
- SC-9: Regulations, Codes and Standards (Matt Feldman and Nick Gupta)

For the PVP 2010 Conference the OAC Technical Subcommittees are working to develop 20 sessions including 80 technical papers. We look forward to an excellent technical program and good participation at the Bellevue Washington conference. The continued efforts of the Authors, Session Developers and paper reviewers are the key ingredients of a successful conference and the OAC appreciates their support as these individuals are the unsung heroes that make this all happen.

The OAC welcomes your attendance at our 2010 PVP Conference technical sessions and committee meeting in Prague, Czech Republic.

On a personal note I am ending my assignment as Chair of OAC at the 2010 conference and I must say it has been an enriching experience to work with the members of the OAC and PVP during the last four years. I want to extend my sincere THANK YOU to everyone for their support and I wish you all well as we go forward. The rotation of OAC leadership will occur at the OAC Committed meeting as the following individuals assume their roles:

Chair: Steve Hensel

Vice Chair: Mansoor Sanwarwalla

Secretary: Matt Feldman

OAC Newsletter Editor: Allen Smith

TPR for PVP 2011: Ayman Cheta

Co TPR for PVP 2011 and TPR for 2012 (TBD)

*Dennis H. Martens  
Chair, Operations, Applications and Components*

# Technical Committee: High Pressure Technology



Jan G. M. Keltjens

The High Pressure Technology Committee focuses on design, research, development and operation of high pressure equipment and systems. The end user experience is a continuum topic during the PVP conferences and it provides important feedback for the development of ASME high pressure codes and standards. Furthermore the academia exploring fundamental aspects of High Pressure Technology is well represented.

The High Pressure Technology Committee held its annual meeting during the PVP-2009 conference in Prague, Czech Republic. It is a truly international committee with representatives from over 10 countries and four continents.

During PVP 2009 the committee organized 4 technical sessions with 16 papers, despite the economic downturn and the European venue of the conference. There was also a tutorial on ASME Section VIII Division 3, which was very closely related to High Pressure Technology. The sessions were well attended.

Special thanks goes out to Dan Peters, the Technical Program Representative, and the individual session developers.

In 2010 the conference will be in Bellevue, Washington. Darren Stang, the TPR, did a great job in developing and planning four sessions on various areas of High Pressure technology such as Design and Analysis, Operating Experience and Impulsively Loaded Vessels. It promises to be a very interesting conference.

Anyone interested in high pressure technology activities is invited to join us and participate at the next committee meeting at PVP-2010 in Bellevue.

Jan Keltjens  
Chair, High Pressure Technology



Gora Chakrabarti

The Codes and Standards Committee provides an excellent forum for the presentation and publication of technical information on contemporary topics relating to the Codes and Standards for pressure vessels and piping components. It provides a continuing association with the ASME Boiler and Pressure Vessel Codes, the ASME Piping Codes, and other International Codes and Standards from Europe, Japan, Korea and China.

Over the years, since the establishment of PVP, the Codes and Standards committee has become truly international in nature bringing together people from many countries exchanging technology and sharing Codes and Standards developments in their part of the world.

The PVP 2009 conference, held in Prague, Czech Republic, was a very successful conference. The Codes and Standards Committee sponsored 17 major technical topics. A total of 95 technical papers were presented in 23 sessions at the conference. Some of these sessions were jointly sponsored by the M&F and the CT committees.

This year's conference PVP 2010 will be held in Bellevue, Washington, USA. Everybody involved in the process is working very hard to make this a very successful conference. The total number of Codes and Standards Committee papers expected to be presented at the conference is likely to exceed 130, the highest ever. A total of 22 major topics are being planned as indicated in the following:

- Structural Integrity of Pressure Components*
- Elastic-Plastic Analysis and Fatigue Issues in Pressure Vessels*
- Ratcheting Issues in Pressure Vessel Design*
- Environmental Fatigue Issues*
- Interaction and Flaw Modeling for Multiple Flaws*
- Emerging Codes and Standards*
- API 579/ASME Code Fitness-for-Service Activities*

ASME Code Section XI Activities  
Recent Developments in

- ASME Codes and Standards*
- Korean Codes and Standards*
- Japanese Codes and Standards*
- Chinese Codes and Standards*
- European Codes and Standards*
- High Temperature Codes and Standards*
- Reactor Vessels and Reactor Core Internals for Codes and Standards*
- Repair, Replacement and Mitigation for Fitness-for-Service Activities*
- Harmonization for Material Data among Fitness-for-Service Codes*
- Probabilistic and Risk Based Assessment for Codes and Standards*
- Fusion Reactor Component Rules for Structural Integrity*
- Multi-Axial Fatigue Behavior of Vessel and Piping Materials for Design and Evaluation Rules*
- Combination of Multi-Axial Loads in Design and Fitness-for-Service Rules*
- Student Paper Symposium & Competition*

A few of these sessions are being jointly sponsored by the M&F and the CT committees. Codes and Standards committee sessions for this year's conference are being organized and led by our very capable TPR: Kunio Hasegawa from Japan. He is being assisted by two Co-TPRs: Doug Scarth from Canada and Bostjan Bezensek from UK/Slovenia. We have high expectation for the upcoming conference in Bellevue, Washington. We believe it will be a very successful conference.

Gora Chakrabarti  
Chair, Codes and Standards

# Technical Committee: Computer Technology



Hakim A. Bouzid

To formalize its association with the bolted joints group that has been a large contributor for the past ten years, the Computer Technology Committee name was recently changed to Computer Technology and Bolted Joints Committee (CTBJ). The Com-

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## Technical Committee: Computer Technology

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puter Technology and Bolted Joints Technical Committee aims to promote interest, advancement, development and applications of both computer technology and bolted flange connections within the pressure vessel and piping industry. CTBJ also advocates proper documentation, verification and validation of computational tools as well as standardization and qualification test procedures of pressurized equipments. With the need of fugitive emission reduction and the rapidly increasing hardware and software capabilities, CTBJ has demonstrated the ability to address a variety technical challenges ranging from full scale manufacturing simulations and structural interaction modeling all the way down to nanoscale modeling.

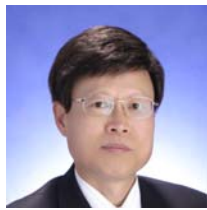
The CTBJ Committee provides a forum to examine emerging developments affecting design and analysis of bolted joints, engineering process capabilities, hardware development and usage, software tools, and computational algorithms. Discussions and papers addressing the latest developments in linear and nonlinear mechanics, material behavior modeling, manufacturing process simulations, smooth particle dynamics, gasketed joint and stuffing box technologies, and modeling techniques, including all aspects of testing, finite and boundary elements, and meshless methods development, are followed with interest. During the 2009 PVP in Prague, in addition to sponsoring the Computer Software forum, the CTBJ Committee presented nine technical sessions seven of which were related to design and analysis of bolted joints. The CTBJ Technical Committee wishes to thank Technical Program Representative Don Metzger of Atomic Energy of Canada, Ltd for his work in overseeing the development of these CTBJ sessions. For PVP-2010 in Bellevue, Seattle Washington, the CTBJ committee will again provide sessions addressing all facets and advances within the computer technology and bolted joint fields. In support of this conference, Technical Program Representative John Martin has championed this year's technical sessions addressing a wide range of com-

puter technology and bolted joints related topics. In addition, the CTBJ Technical Committee will also be teaming with other ASME committees in an effort to bring to the forefront the coupling of computational tools with design and analysis techniques for applications relating to the pressure vessel and piping industry. The next full CTBJ Technical Committee meeting will be held in conjunction with the 2010 PVP Conference in Bellevue, Seattle Washington. 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 and Bolted Joints within the industry or for novel or advanced applications. 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](mailto:hakim.bouzid@etsmtl.ca).

*Hakim A. Bouzid*

*Chair, Computer Technology and Bolted Joints*

## Technical Committee: Fluid Structure Interaction



*Jong Chull Jo*

The Fluid-Structure Interaction (FSI) Committee's activities focus on the phenomena/effects identifications, analytical/numerical/experimental modeling, analysis/prediction methods, and analysis results /experimental data of various FSI mechanisms in pressure vessels and piping systems. Since the committee was established, it has been providing fundamental knowledge on the FSI dynamics as well as practical technologies with their application guidelines for design, evaluation, operation and maintenance of pressure vessels, piping systems and components.

At the 2009 Pressure vessels and Piping (PVP) Conference held in Prague, Czech

Republic, the committee sponsored 5 symposia with 19 sessions including 81 papers. The symposium titles were "Thermal-Hydraulic Phenomena and Interactions with Vessels, Piping, and Components," "Flow-Induced Vibration Symposium," "International Symposium on Emerging Technologies for Fluids, Structures and Fluid-Structure Interactions," "Structures Under Extreme Loading Conditions," and "Fluid Structure Interaction and Sloshing." Christina Giannopapa, FSI Secretary, served as FSI Technical Program Representative (TPR) for the conference and received the Certificate of Recognition for her hard work. Jean-Francois Sigrist received the Certificate of Appreciation for his service as the ASME PVP 2009 Regional Coordinator (Western Continental Europe). Frantisek L. Eisinger with his co-author Robert E. Sullivan received the PVP 2008 Conference Award of Outstanding Technical Paper which was presented at the FSI technical session.

Njuki Mureith serves as FSI TPR for the 2010 PVP Conference. Young W. Kwon, the past FSI Chair and the Technical Program Chair for the 2009 PVP, serves as the Conference General Chair for the 2010 PVP. Young Jong Kim was newly appointed as FSI representative in the International Committee, and Moji Moatamedi was reappointed to serve for the two-year term 2010-2012 as FSI representative in the Honors and Awards Committee. Jong Chull Jo was newly appointed as an Associate Editor of the Journal of Pressure Vessel Technology in September 2009.

Recently, 7 new members have formally joined the FSI technical committee. They are Raju Ananth (USA), Laszlo Baranyi (Hungary), Hirofumi Iyama (Japan), Lambros Kaiktsis (Greece), David L. Littlefield (USA), Xiaoyu Luo (UK) and Atef Mohany (Canada). The FSI committee is continuously seeking new members worldwide. Those who would like to join the FSI committee as official member are kindly requested to send an email signifying the intention with a copy of brief curriculum vitae to FSI Chair Jong Chull Jo at [jcjo@kins.re.kr](mailto:jcjo@kins.re.kr). In addition, anyone who is interested in the committee's activities is welcome to attend the FSI Technical Committee Meeting to be held at the 2010 PVP Conference.

*Jong Chull JO*

*Chair, Fluid Structure Interaction*

## Technical Committee: Seismic Engineering



Vernon Matzen

**T**he 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, piping systems and other structural systems and components. Encouraging participation in the annual ASME Pressure Vessels and 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 tanks and pressure vessels; seismic analysis and design of industrial piping; and structural reliability and risk assessment.

Twelve paper sessions with 45 papers, 1 forum session and 1 panel session with 4 presentations were presented by the SETC at the 2009 PVP Conference in Prague. Spyros Karamanos served as Technical Program Representative (TPR), coordinating the committee's sessions.

In the 2010 PVP Conference, the SETC will have 11 sessions with 36 papers, as well as Gerry Slagis' popular Forum on Seismic Design of Piping Systems for the Year 2010. Cheryl O'Brien is the TPR, and she will continue in this position for the 2011 conference, also.

The SETC officers are: Chair, Vernon Matzen; Vice Chair, Tomoyo Taniguchi; and Secretary, Tom Clark. Seismic Engineering members Tomoyo Taniguchi and Spyros Karamanos are Associate Editors on the ASME Journal of Pressure Vessel Technology (JPVT). Tomoyo Taniguchi is AE for Seismic Engineering and Spyros Karamanos is AE at Large.

The committee is pleased that previous SETC Chair, Mike Nitzel, is now the Professional Development Chair on the PVPD Executive Committee. Mike served as SETC chair for 4 years and is now an Honorary SETC committee member.

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 is 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 issues and desire more information to contact me at 919-515-7736 or via email at [matzen@ncsu.edu](mailto:matzen@ncsu.edu).

*Vernon C. Matzen,  
Chair, Seismic Engineering*



## PVP 2011

Come join us in Baltimore, Maryland  
for the 2011 ASME Pressure Vessels  
and Piping Conference!

**Baltimore Marriott Waterfront Hotel**  
**July 17–22, 2011**

### ***Pressure Vessel Technologies – A Look Ahead into the Next Decade***

The 2011 ASME 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 from participants in 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-2011 Conference, with additional participation by the ASME NDE Division. More than 150 paper and panel sessions are planned, as well as workshops, tutorials, NDE and Software Demonstration Forums, and our traditional Student Paper Competition & Symposium.

**GENERAL TOPICS:** (1) Codes & Standards; (2) Computer Technology and 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) Nanotechnology; and (11) our Student Paper Competition and Symposium.

**SCHEDULE:** Abstracts are due by **November 19, 2010**. Authors will be notified of abstract acceptance by **December 17, 2010**. Draft papers will be due by **March 04, 2011**. Paper peer review comments will be returned by **April 01, 2011**. Final reviewed papers in ASME format for publication and the 1903 Copyright Transfer Form for each paper must be received by **April 22, 2011**. All accepted papers will be published via CD-ROM/DVD.

**INFORMATION:** Mail, fax, or e-mail any query to the Conference Chair, the Technical Program Chair or the Sponsoring Chair, listed below:

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