A Message from the PVP Division Chair

The Pressure Vessels and Piping (PVP) Division is a member of ASME’s Pressure Technology Group of the Knowledge and Community Sector of ASME.

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

- Executive leadership training
- Conference management 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. 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. Participation in our conferences provides the attendee an opportunity to remain current with new and emerging technologies for all.

Each year, hundreds of volunteers are involved in organizing technical conferences, offering technical tutorials, authoring technical papers and contributing to the publication of the Journal of Pressure Vessels and Piping. Today, the Journal of Pressure Vessel Technology has become internationally recognized as the leading publication in its field.

This year’s conference will mark another giant step for the PVP Division. It will be the first time since the birth of the division, 43 years ago, that the annual Pressure Vessel and Piping conference is being held in Prague, the Czech Republic, under the leadership of our colleagues Dr. Luc Gerets as the Conference Chair and Dr. Young Kwon as the Technical Program Chair. You are all invited to join us and be part of this unique experience.

Our success is attributed to all the members in all eight Technical Committees of the PVP Division, for their enthusiastic and sincere efforts each year in writing or reviewing technical papers and/or developing or chairing technical sessions. The PVP division throughout its history has thrived

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PVP-2009 Prague, Czech Republic
July 26 – 30, 2009
Message from the Conference Chair

Preparation of the 2009 ASME Pressure Vessels and Piping Division Conference is well under way. The conference venue is the Prague Hilton, July 26 – 30, 2009.

This year, the Conference Technical Program, with participation by the ASME NDE Division, is expected to contain 700 technical papers organized into about 170 technical and panel sessions, four tutorials, and the renewed Student Paper Competition. Technical papers presented in this Conference are separated into tracks, in accordance with their technical areas, and published in the Conference proceedings in the form of a CD ROM.

The Conference Plenary Session is on Monday, July 27, 2009. The Plenary Lectures include: Opening Remarks by Dr. Sam Zamrik, ASME President 2007–2008; Energy Security and Climate Change: (Continued on page 2)
Division Chair Message  
(Continued from page 1)

because of strong leadership, excellent planning, and a well thought out process that defines responsibilities with an emphasis on team work.

Experience, as well as, succession planning is key to excellent leadership. The PVP Division’s program offers the opportunity to learn as you perform for volunteers interested in leadership positions. Volunteers serve for six full years on the Executive Committee. During those years, they serve as Committee Chairs, tutored by 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.

PVP Division will continue to contribute to the Goals, the Mission, and the Vision of ASME. While we will continue to be proud of our 43-year history for being one of the ASME’s most viable divisions, we will continue to build to lead to a bright future, while continuing as one of the pillars of the ASME’s organization. We want to continue 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 am honored this year to serve as the Chair of the Pressure Vessel and Piping Division. Since I have been associated with the division, over the past 29 years, I have developed many new and long lasting friendships 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.

Best Wishes
Artin Dermenjian
Chair, PVP Division

Conference Chair Message  
(Continued from page 1)

How to Avoid a Catastrophe? by Claude Mandil, Former Executive Director, International Energy Agency; and Nuclear Safety Regulation in a Changing Environment, by Dana Drábová, Chair of the Czech State Office for Nuclear Safety.

We will have a Special Tutorial scheduled for Sunday afternoon, July 26, 2009, Developing Young Engineers, and four Technical Tutorials scheduled:

- ASME Section VIII, Division 2, New Design by Analysis Rules
- Construction of Pressure Vessels to ASME Section VIII, Division 3
- PWR Nuclear Plants – Recent Achievements for Integrity Assessment in Reactor Pressure Vessels
- Seismic Analysis and Design of Industrial Liquid Storage Tanks and Vessels.

In addition, there will be a workshop conducted by the International Committee for NDT on Sunday afternoon, July 26, 2009, on Quality in Non-Destructive Testing.

The NDE and Software Demonstration forums, organized as part of our technical program, are scheduled for Monday, July 27, 2009, and Tuesday, July 28, 2009, respectively.

A series of social events will complement the technical program. A Walking Tour of Prague will open the program on Sunday afternoon. On Monday, the Panoramic Tour of Prague is a city tour including a Lunch. The Conference-Wide Reception will be held on Monday evening on the Summer Terraces of the Hilton Hotel, overlooking the Vltava River. On Tuesday, there is the Konopiste Castle Tour, a French Gothic castle from the 14th century, with a lunch in the most renowned, and unquestionably gourmet, Stodola restaurant. The Wednesday evening social will be held at Prague Municipal House, and includes a private concert.

Visit the conference web site at http://www.asmeconferences.org/PVP09 for more detailed information on the above technical and social activities. Please make sure that you complete your registration for the conference and for the hotel as soon as possible, as our spaces are limited.

You will experience the attractiveness and the architectural beauty of Prague, the “mother of cities.” We look forward to seeing you there!

Luc H. Geraets
Chair, PVP-2009 Conference

Professional Development Report

The upcoming 2009 PVP Conference will feature four technical tutorials. A Sunday afternoon workshop and a special Sunday afternoon panel/forum session are also in the lineup for the Prague conference. I hope you will find time in your busy conference schedule to attend one or more of these tutorials or workshops.

Tutorials
Special Panel Discussion Developing Young Engineers
Sunday, July 26, 4:00 PM—6:00 PM
Moderator: Dennis H. Martens, Porter McGuffie, Inc.
This special session will be an open forum discussion focusing on developing, retaining, and promoting technical competence in early career engineers. A 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
ASME Section VIII, Division 2, New Design By Analysis Rules
Monday July 27, 2:00 PM—5:45 PM
Trevor Seipp, Becht Engineering Canada, Ltd.

(Continued on page 3)
Professional Development
(Continued from page 2)

The 2007 Edition of ASME Section VIII, Division 2 was a complete rewrite of the division. This tutorial will discuss Part 5, “Design By Analysis Requirements.” It will highlight the changes from the previous editions of the Code and will include examples. Particular attention will be paid to the use of FEA in the application of the new rules. Topics include:

• General philosophy of Part 5 — Protection Against Failure Modes
• Loading Conditions
• Protection Against Plastic Collapse, Local Failure, Buckling and Cyclic Loads
• Stress Classified Linearized Results
• Histogram Development and Cycle Counting For Fatigue Analysis.

Technical Tutorial II
Construction of Pressure Vessels to ASME Section VIII, Division 3
Tuesday, July 28, 2:00 pm – 5:45 pm
J. Robert Sims, Becht Engineering Co., Inc.
This tutorial focuses on the differences between Section VIII, Division 3 (Alternative Rules for Construction of High Pressure Vessels) and Section VIII, Division 2 (Alternative Rules for Pressure Vessels). Requirements for materials, design, fabrication and testing will be presented, with special emphasis on the following areas:

• Calculation of residual stress due to autofrettage using closed form solutions and finite element analysis
• Design fatigue life using fracture mechanics analysis
• Mean stress correction for traditional “S-N” fatigue life calculations
• Differences in elastic-plastic analysis and structural stress methods compared to Division 2
• Fracture toughness testing
• Fabrication requirements.

Wednesday, July 29, 8:30 am—12:15 pm
Georges Bezdikian, Georges Bezdikian Consulting
Francois Hedin, EDF SEPTEN
Marc Kirk, U. S. NRC
Ki Sig Kang, IAEA
Studies related to operation, beyond typical design life, have identified the RPV as the most important nuclear power plant component. Most commercial light water reactors use ferritic low alloy steels for the construction of the RPV: thus, structural integrity depends on knowledge of the change in fracture toughness of the RPV materials over the time of operation.

This tutorial will focus on:

• Global integrity assessment methodology and evaluation for pressurized thermal shock (PTS) considering the influence and RTNDT with neutron computation of vessel toughness evaluation and irradiation surveillance program monitoring. CFD numerical computations and mock-up validation will also be addressed.
• Evolution and recent developments of RPV Integrity assessment, probabilistic risk assessment; historical evolution of RPV core zone in-service inspection programs; recent developments and evolution of RPV in-service inspection
• Application of PTS analysis on US NPPs, including examples and case studies; and regulator point of view on aspects of RPV life management and impact on long term operation
• Comparison between approaches on RPV PTS and integrity assessment used in Asia, Europe, America, etc. Guidelines presented by the International Atomic Energy Agency (IAEA) will be addressed.
• International approaches will be discussed on new tools: numerical computation, local approaches, and the warm pre-stress effect in integrity assessment.

Technical Tutorial IV
Seismic Analysis and Design of Industrial Liquid Storage Tanks and Vessels
Thursday, July 30, 8:30 am—12:15 pm
Spyros Karamanos, University of Thessaly
This tutorial is aimed at introducing special issues regarding the earthquake analysis and design of industrial liquid storage tanks and pressure vessels toward safeguarding their structural integrity. The first part of the tutorial deals with liquid storage vessel behavior under earthquake motions, while the last part concerns practical design issues related to existing designs.

At the technical tutorials, attendees may purchase a set of the “Tutorial Notes”. The charge is set as low as possible based on the cost of production.

Each attendee will receive a “Certificate of Attendance” as proof that the attendee has participated in an individual tutorial. The PVP Division will not assign Continuing Education Units (CEUs) on these certificates; however, attendees may negotiate CEU credits with their respective licensing boards.

Workshops
Sunday, July 26, 1:00 pm—3:30 pm
Quality in Non-Destructive Testing
Mike Farley, International Committee for NDT (ICNDT)
John Thompson, ICNDT
This workshop will demonstrate how to effectively achieve quality in non-destructive testing. Topics to be addressed include:

• Maintaining lab and site NDT quality levels
• ICNDT guide to ASME NDT
• Comparison of ASME and PED requirements for approval of NDT personnel
• Code cases and changes to the ASME codes
• How third party employer and SNT TC 1A qualifications can dovetail
• How to qualify/certify people for specialist techniques.

Technical Tutorial III
PWR Nuclear Plants — Recent Achievements for Integrity Assessment in Reactor Pressure Vessel: New Tools, Recent Evolution and Methodology in Progress, and Future Perspectives

Mike Nitzel
Chair, PVPD Professional Development
Journal of Pressure Vessel Technology (JPVT) News

The ASME Publication Committee granted a permanent annual page increase from 800 to 900 pages to JPVT, the Journal of Pressure Vessel Technology. These additional allocations should allow us to publish all papers currently in process, thereby eliminating the significant backlog of papers, and begin FY 2010 with close to a full annual page allocation.

“The FABULOUS NUCLEAR ODYSSEY OF BELGIUM,” by Luc Geraets will be published in the June, 2009 issue of JPVT. Geraets is a 2008 recipient of the Calvin W. Rice Lecture award for this technology review. The intent of this award is to continue the efforts for which Calvin Rice was known, to increase understanding among engineering of various countries.

The August, 2009 issue of JPVT will feature a survey paper, as well as a series of five papers on hydrogen effects, in addition to a variety of papers on other topics. Poh-Sang Lam is coordinating this effort.

Thanks to outgoing JPVT Associate Editors Vernon Matzen, David Raj, Toshiyuki Sawa, Dennis Williams and Mingde Xu. The valuable contribution they have made to the Journal is much appreciated. Ricky Dixon, William Koves, Tribikram Kundu, Donald Mackenzie, Noel O’Dowd, Ed Rodriguez, Doug Scarth, T.L. (Sam) Sham and Maher Younan are continuing to serve as Associate Editors.

We welcome five new Associate Editors to JPVT. Zhangzhi Cen, as an Associate Editor at Large; Spyros Karamanos, as an Associate Editor at Large; Marina Ruggles-Wrenn, in the Design and Analysis area; Tomoyo Taniguchi, in the Seismic Engineering area; and Osamu Watanabe, as an Associate Editor at Large. Congratulations on your appointment, and welcome to JPVT.

ASME will soon offer a new service for all journals. Authors will be able to submit material supplemental to their papers. Any supplementary material to a journal paper will be reviewed by both editors and reviewers. Such material has the value of an archival contribution. It should therefore be considered part of the original contribution. The main body of the paper will include prominent indications that it is accompanied by supplemental material. The following material will be considered for archiving: appendices, video files, three dimensional rendering files and computer programs.

Please remember, you have a standing invitation to submit your papers to JPVT to be considered for publication. Subscribe to JPVT and invite your colleagues to subscribe, also. Subscriptions are available either in print or electronically.

G.E O. Widera
Editor, JPVT

PVPD Senate Student Paper Symposium and Competition

PVPD students will present a record number of outstanding papers at PVP 2009. Abstracts were received from students in 23 countries. The Student Paper Symposium has been significantly expanded this year through the help of the PVP Technical Committees. We ask all PVP attendees to visit one of the Student Symposium sessions and enjoy the high quality presentations. The PVP Senate welcomes students to Prague, and would like to thank Areva for its generous support of the Symposium.

Judith A. Todd
Senate

The 12th International Conference on Pressure Vessel Technology
September 20-23, 2009
Phoenix Island Resort, Jeju Island, KOREA

Contact Information — ICPVT-12 Secretariat
C-Agency Co. Meeting Management #805, Sungji Building,
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E-mail: infocentral@asme.org Phone: 1-800-843-2763 or 1-973-882-1170 Fax: 1-973-882-1717
PVPD Programs Report 2009

The 2009 ASME Pressure Vessels & Piping Conference will be held for the first time in Central Europe, in Prague, Czech Republic, at the Hilton Prague Hotel. The dates for the Conference are July 26–30, 2009. The PVP Conference Chair is Dr. Luc H. Gerets, of GDF SUEZ Nuclear Activities, and the Technical Program Chair is Professor Young W. Kwon, of the U.S. Naval Postgraduate School. More than 170 paper and panel sessions are planned, as well as tutorials, the NDE and Software Demonstration Forums, and the Student Paper Symposium and Competition.

The 2010 ASME/K-PVP Pressure Vessels and Piping Conference is currently being planned for Bellevue, Washington, at the Hyatt Regency Bellevue Hotel. This will be a joint Conference with the ASME Pressure Vessels and Piping Division and the Korean Society of Pressure Vessels and Piping. The conference dates will be July 18–22, 2010. The PVP 2010 Conference Chair will be Professor Young W. Kwon, and the PVP 2010 Technical Program Chair will be Ronald S. Hafner. The Short-Form Call for Papers has been issued and is presented on Page 12 of this Newsletter. The Long-Form Call for Papers will soon be available on the PVP Website at http://www.asmeconferences.org/PVP10/.

Ronald S. Hafner
Chair, PVPD Programs

Awards Presented at PVP 2008

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. Arturs Kalnins. Dr. Kalnins is a Professor of Mechanics in the Department of Mechanical Engineering and Mechanics at Lehigh University. Professor Kalnins is internationally recognized for his development and contributions to the field of elastic-plastic analysis. He was a major contributor to the revision of the ASME B&PV Code Section VIII, Division 1, and to the introduction of design rules for implementation of ASME Codes Cases 2260 and 2261. Through the years, Artur's has conducted numerous tutorials for the PVP Division in the field of plastic analysis of pressure vessels, and has been a contributor to the Welding Research Council and the Pressure Vessel Research Council. Arturs was further honored with a promotion to Fellow grade of the ASME.

Two ASME Dedicated Service Awards were presented to Artin A. Derjmenjnan (Chair of the PVP Division), and Karen Thole. James F. Cory, Jr., as Chair of the PVP Division (2007 – 2008), was presented the ASME Board of Governors Award. In addition to Dr. Kalnins, Richard C. Biel, James F. Cory, Jr., Jerry L. Gordon, Merdechai Perl, William C. Springer, and Bud Wendorf were also elevated to the Fellow grade of the ASME.

Division awards included the S. S. Chen PVP Service Award, which was presented to Mahendra D. Rana. Certificates of Appreciation or Recognition were presented to various individuals for services as officers for the Division and contributors to PVP 2007 (Technical Committee Chairs, Associate Editors of the ASME JPVT, etc.), services to Technical Committees, outstanding performance at the San Antonio 2007 Conference (Papers, Sessions), or Conference special services for PVP 2007 (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 twelve international student authored papers.

Dennis K. Williams
Chair, PVPD Honors and Awards

PVPD Communications

The success of the annual PVP conference highly depends on the dedication of many volunteers. Especially, Track Organizers and Topic/Session Organizers have spent endless hours of their time and effort to make each final conference program successful, so that every meeting provides technical value to all participants. There is no way to compensate them other than proper recognition. In order recognize them appropriately, both CD and post-conference hardcopy proceedings were changed in 2008. As a result, the CD and eight symposium volumes published from PVP 2008 in Chicago contained pages recognizing each of them. The same format is planned to be used in this and future years.

The Division website layout and management is in the process changing. We hope to share more news regarding this in future newsletters. On the other hand, the conference website has been improved yearly based on past experience. Any suggestions for improving both the Division and Conference websites would be welcome.

Mr. Dan Peters will assume the responsibility as Communication Chair as of July 2009. I sincerely appreciate all the support and help from everyone, especially all Technical Committee Chairs, Track Organizers, Topic/Session Organizers of past PVP Conferences. I also kindly request the same support for Dan Peters as the Incoming Communication Chair.

Young W. Kwon
Chair, PVPD Communications
Division Membership

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VP membership, defined as the primary Technical Interest of members, has remained constant from 2008-2009, at approximately 4.2% of the total ASME membership. This keeps PVP as the sixth of 38 technical divisions and institutes within ASME.

Retaining and recruiting PVP members continues to be key to the Division’s health. After a very successful Conference in Chicago in 2008, we will be meeting in Prague, in July 2009. In an effort to understand where our membership comes from, we analyzed their countries of origin. The chart below shows the 28 countries with 10 or more PVP members (USA—72% not shown). Canada is second with 6.5%, and the other countries represent every continent except for Antarctica.

The next chart shows the universities from which ten or more PVP members hold a degree.

Finally, the professional positions that our members hold is broken down. It is good to see that the majority (about 60%) of our members are indeed working as engineers. The other 40% lists management as their primary job function.

With the theme “Each One Bring One,” I again would like to draw attention to the recruitment of new PVP members. People from companies, government laboratories, and academia from all over the world have an interest in pressure vessels and piping. I am asking every one of you to consider asking someone in your office, institute, or university to become an ASME member, and tell them enthusiastically about PVP.

It is easy to apply, and the benefits include the fellowship and recognition from being associated with one of the largest engineering societies in the world. New members can indicate their preference for PVP membership by indicating “number 28” on the application form. ASME members and student members, and members from select countries can receive a discount to the conference registration.

You can 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 and request an application.

Michiel P.H. Brongers
Chair, PVPD Membership

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 and Analysis

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 23 technical sessions at the PVP 2008 Conference held in Chicago, where over 88 papers were presented. The Committee is planning 28 technical sessions for PVP-2009 in Prague, Czech Republic. The Committee met on July 28, 2008 in Chicago, Illinois. The meeting was attended by 23 members, two prospective members, nine guests, and PVPD Senators, W. J. Bees and T. H. Liu. The D&A Committee welcomes two new members elected at the PVP-2008: N. Zobeiry and S. Krishnamurthy. Several new prospective members will be considered at the upcoming PVP 2009 Conference.

We look forward to seeing you at PVP 2009, in Prague, Czech Republic. Anyone interested in participating in the Committee activities is invited to attend the D&A Committee meeting at PVP-2009, and/or contact Prof. Ruggles-Wrenn (marina.ruggles-wrenn@afit.edu).

Marina B. Ruggles-Wrenn
Chair, Design and Analysis

Technical Committee: Materials and Fabrications

The Materials and Fabrication Technical Committee (M&F) promotes research, development, and sharing of technical information on materials science, properties, modeling, as well as fabrication technologies for piping, pipelines, vessels, and nuclear reactor components. The recent activities are primarily focused on fracture methodologies, sub-critical crack growth, environmental effects (including corrosion, hydrogen, and high temperature), mechanic materials modeling, advanced material development (for example, new generation nuclear reactors), fabrication processes, computational and statistical methods, welding, and residual stress determination and effects. These efforts will lead to a better understanding of material performance and an improvement in structural design, structural integrity assessment, plant life management, and fitness-for-service acceptance criteria for pressure vessels and piping systems.

At PVP-08, the M&F TPR (Track Organizer) Noel O’Dowd, along with all the topic/session organizers, developed 17 topics and symposia, with 43 paper sessions and two panel sessions. A total of 167 written papers from M&F topics were included in the conference proceedings volume, which was published in the PVP-08 Conference CD-ROM. Two sessions were organized in collaboration with the Codes and Standards Committee because of the multidisciplinary nature of the M&F Committee. The M&F Committee also sponsored the NDE demonstration forum. The 2008 M&F Committee Meeting was held during the PVP-08 Conference. It was unprecedentedly attended by more than 50 M&F Members and observers.

For PVP-09, to be held in Prague, Czech Republic, the M&F technical program is led by David Rudland. At the time of preparing this newsletter, M&F has received 205 manuscripts (subject to peer review), with 47 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 Pressure Vessels and Piping Conference, in July 2009.

The M&F 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 with wide variety of disciplines, and to those who are interested in research and development in pressure vessel technology and materials. For more information please contact Poh-Sang Lam at ps.lam@srl.doe.gov.

Poh-Sang Lam
Chair, M&F

Technical Committee: Operations and Applications

The OAC committee is a great place to network, find technical support, and establish long term working relationships with industry peers. This is emphasized by the PVP 2008 conference, where the OAC committee developed 21 Sessions with 77 papers, a panel discussion, and two special presentations.

The PVP 2008 OAC committee meeting was attended by 34 professionals, including several potential new members. During the meeting, Dennis Williams, on behalf of ASME PVP Honors & Awards committee, presented recognition awards for OAC members, Nick Gupta for being the OAC TPR for 2008, A. Martin for the Best OAC Paper in 2007, Allen Smith for his longstanding contribution to the OAC committee, and Dennis Martens for his longstanding contribution to the D&A Committee.

(Continued on page 8)
The OAC continues to discuss methods to attract and mentor new members and foster 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 Paolo Contri
• SC-3: Monitoring, Diagnostics and Inspection — Milan Brumovsky, Ike Ezekoye
• SC-4: Toxic Substances: Storage and Transportation — Allen Smith and Cecil May
• SC-5: Pumps & Valves — Ike Ezekoye and Jim Chan
• SC-6: Operations and Maintenance of Pressure Vessels, Heat Exchangers, and Structures — T. Tahara and Ayman Cheta
• SC-7: Piping & Supports — Ayman Cheta and Oscar Shirani
• SC-8: Plant Life Extension: Aging and Life Management — Mansoor Sanwarwalla, Georges Bezdikian and Vik Shah
• SC-9: Regulations, Codes and Standards — Chris Bajwa and Nick Gupta

For the PVP 2009 Conference, the OAC Technical Subcommittees are developing 15 sessions, including 70 technical papers. We look forward to an excellent technical program and good participation at the Prague conference.

Allen Smith, publishes 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 to obtain a copy of the Newsletter or to provide information for future Newsletters.

The OAC welcomes your attendance at our 2009 PVP Conference sessions and Committee meeting in Prague, Czech Republic.

Dennis H. Martens
Chair, OAC

Technical Committee:
High Pressure

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 PVP Conferences, and it provides important feedback for the development of ASME high pressure codes and standards. Furthermore, the academic exploration of fundamental aspects of High Pressure Technology is well represented.

The High Pressure Technology Committee held its annual meeting during the PVP 2008 Conference in Chicago. It is a truly international committee, with representatives from over 10 countries and four continents.

During PVP 2008, the Committee organized four technical sessions and two panel sessions with 23 papers. The sessions were very well attended. Special thanks goes out to Rick Dixon, the Technical Program Representative.

In 2009, the Conference will be in Prague, the Czech Republic. Despite the economic downturn, Dan Peters, the TPR, did a great job in developing and planning four sessions. The PVP 2009 sessions are “High Pressure Design and Analysis,” “Updating the State of the Art Water Jet Technology,” “Advancements in Life Prediction of High Pressure Vessels,” and “Impulsively Loaded Vessels and Hazard Technology.” 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 2009, in Prague.

Jan Keltjens
Chair, HPT

Technical Committee:
Codes and Standards

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 2008 Conference, held in Chicago, was a very successful conference. The Codes and Standards Committee sponsored 20 major technical topics. A total of 105 technical papers, including seven papers for presentation only, were presented in 29 sessions. Some of the sessions were co-sponsored by M&F and CT committees.

This year the PVP 2009 Conference will be held in beautiful Prague, Czech Republic. Preparations are vigorously underway for this conference. A total of 17 major topics, comprising 23 technical and panel sessions, are being planned. Over 100 technical papers are expected to be presented at this conference. A listing of the major topics (Continued on page 9)
(Continued from page 8)

are as follows:

• Structural Integrity of Pressure Components
• Elastic-Plastic Analysis According to 2007 Section VIII-Div. 2 Rules
• Ratcheting Issues in Pressure Vessel Design
• Environmental Fatigue Issues
• Interaction and Flaw Modeling for Multiple Flaws
• API 579/ASME Code Fitness-for-Service
• ASME Code Section XI Activities
• Recent Developments in:
  - ASME Codes and Standards
  - Korean and Japanese Codes and Standards
  - Chinese Codes and Standards
  - European and International Codes and Standards
• High Temperature Codes and Standards
• Repair, Replacement and Mitigation for Fitness-for-Service Rules
• Probabilistic and Risk Based Assessment
• Innovative Concepts for Next Generation Codes and Standards
• Materials, Welding, Design, and Residual Life of Czech AME Codes
• Structural Integrity of Fusion Reactor Components

Codes and Standards Committee sessions for this year’s conference are being organized and led by 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 expectations that the upcoming conference in Prague will be very successful.

Gora Chakrabarti
Chairman, Codes and Standards

Technical Committee:
Computer Technology

The Computer Technology (CT) Technical Committee has been an advocate for the development and application of computer technology within the pressure vessel and piping industry. CT also champions proper documentation, verification, and qualification of computational tools for design and analysis applications.

The CT Committee provides a forum to examine emerging computer-related technical developments affecting verification, validation, and qualification of software; engineering process capabilities; hardware development and usage; software tools; computational algorithms; database management; and internet applications. Discussions and papers addressing the latest developments in linear and non-linear mechanics, material modeling, manufacturing process simulations, smooth particle dynamics, bolted joint technology, process simulations, and database applications represent a new direction beyond everyday computing applications. In addition, the CT Committee has expanded its technical contributions to the PVP Conference through the contributions and association with bolted joint applications. This affiliation as can be seen through the title of the “Computer Technology and Bolted Joints Applications” Track in PVP 2008, and beyond.

During PVP 2008, in addition to sponsoring the Computer Software forum, the CT Committee presented eleven technical sessions and one panel discussion. Seven technical sessions and the panel session were related to bolted joints applications.

These sessions were developed in conjunction with PVRC, and lead by Dr. Hakim Bouzid. The CT Technical Committee wishes to thank Technical Program Representative, Dr. Hakim Bouzid, for his work in overseeing the development of the bolted joint affiliated CT sessions.

For PVP 2009, in Prague, Czech Republic, the CT committee will again provide sessions addressing all facets and advances within the computer technology and bolted joint fields. In support of this conference, Co-Technical Program Representatives Drs. Hakim Bouzid and Don Metzger have championed this year’s technical sessions, addressing a wide range of computer technology and bolted joint application related topics. In addition, the CT Technical Committee continues to team 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 CT Technical Committee meeting will be held at the 2009 PVP Conference in Prague. For further information about the committee or suggestions, and/or questions regarding committee issues, please contact CT Chair John Martin at 518-395-6755, or via email at jimartin8@nycap.rr.com.

John A. Martin
Chair, Computer Technology

Technical Committee:
Fluid Structure Interaction

The Fluid Structure Interaction (FSI) Committee promotes the research, development, and exchange of information on fundamental knowledge of the dynamics of fluid-structure interactions. In addition, the Committee promotes the engineering application of the FSI-related technology to the design, operation, and maintenance of pressure vessels, piping systems and components.

The FSI Committee’s activities focus on the phenomena/effects identifications, analytical/numerical/experimental modeling, analysis/prediction methods, analytic results, and experimental data of various fluid-structure interaction mechanisms in pressure vessels, piping systems and components, that especially include flow-induced vibrations caused by fluid-elastic instability, vortex shedding, turbulence, acoustic excitation, etc.; transient thermal-hydraulic loads caused by vibration or seismicity-induced sloshing, water hammer, steam hammer, resonant frequencies, rapid condensation, explosive expansion, moving

(Continued on page 10)
shock or expansion waves, thermal stratification, thermal stripping, other unsteady thermal and fluid flow mechanisms, etc.; and extreme loads such as blast, impact, penetration, explosions, etc.

Since the FSI Committee was set up, it has been providing practical technologies needed to develop or update requirements and guidelines for design, evaluation, operation and maintenance of pressure vessels, piping systems and components. Recently, the Committee has also been making an effort to develop numerical methods for simulating the complicated fluid-structure coupled systems realistically.

The Committee has a membership of over 50 members, including 19 ASME fellow members. Most of them have been taking an active role in the research/development/application of FSI technologies and related education/training/publication, as well as in ASME PVP Division activities. Many members have been writing papers, articles and books. At the same time, several past FSI Chairs have served for PVPD as Member, Secretary, Vice-Chair, or Chair of Executive Committee, Senate, etc.

The FSI Committee Officers include: Chair, Jong Chull Jo; Vice-Chair, Jean-Francois Sigrist; Secretary, Christina Giannopapa; FSI Professional Development Chair, Fred Moody; FSI Honors & Awards Chair, Moji Moatamed; and FSI Publication Chair, Michel Pettigrew. To effectively achieve the goal of FSI committee, there are six Task Groups (TGs): TG 1 Flow-Induced Vibration and Noise, TG 2 Fluid-Solid and Media-Structure Interaction, TG 3 Fluid Dynamics/Transient Thermal Hydraulics, TG 4 Shock Wave and Propagation, TG 5 Dynamic Systems, and finally, TG 6 Multiphysics.

At the PVP 2008 Conference, the FSI Committee sponsored three topics, one symposium, and one forum, with 16 sessions that included 55 papers and one panel presentation, which was organized by the 2008 FSI TPR, Jean-Francois Sigrist, together with all the topic/forum/session developers.

Asif Arastu led the panel session at which he gave a tutorial-like presentation entitled, Fluid Transients-Analysis and Simulation of Real Life Water Hammer Events, and which evoked a much discussion among a large audience.

For the PVP 2009, through the sponsorship of the FSI Committee, three topics and two symposia with over 90 papers are being organized by the Topic/Symposium volunteer organizers, including the 2009 PVP FSI TPR, Christina Giannopapa.

The FSI committee is continuously seeking new members worldwide. Last year, FSI was pleased to welcome five new members. Anyone interested in the FSI Committee’s activities are invited to send an email to FSI Chair Jong Chull Jo at jcjo@kins.re.kr. In addition, anybody in the PVP area is welcome to attend the FSI Technical Committee meeting, to be held at the PVP 2009 Conference.

In the 2009 PVP Conference, the SETC will have twelve sessions with 49 papers, as well as Gerry Slagis’ popular Forum on Appropriate Piping Design for the Year 2010. Spyros Karamanos is again the TPR. The Seismic Engineering Committee sponsors one PVP 2009 Tutorial on Seismic Analysis and Design of Industrial Liquid Storage Tanks and Vessels.

Cheryl O’Brien will be the TPR for the 2010 Conference. The SETC officers are: Chair, Vernon Matzen; Vice Chair, Tomoyo Taniguchi; and Secretary, Tom Clark. Seismic Engineering Committee members Tomoyo Taniguchi and Spyros Karamanos are Associate Editors for the ASME Journal of Pressure Vessel Technology (JPVT). Tomoyo Taniguchi is Associate Editor for Seismic Engineering and Spyros Karamanos is Associate Editor 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. I encourage all who may be interested in seismic issues to contact me at 919-515-7736, or via email at matzen@ncsu.edu.

Vernon C. Matzen,
Chair, Seismic Engineering
Pressure Vessel Technologies for Energy Challenge

The ASME PVP/K-PVP 2010 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 different 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 and K-PVP are co-sponsors of the PVP-2010 Conference, with 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 the Student Paper Competition.

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) the Student Paper Symposium and Competition.

SCHEDULE: Abstracts are due by November 20, 2009. Authors will be notified of abstract acceptance by December 18, 2009. Draft papers are due by March 05, 2010. Paper peer review comments will be returned by April 02, 2010. Final reviewed papers in ASME format for publication and the 1903 Copyright Transfer Form for each paper must be received by April 23, 2010. All accepted papers will be published via CD-ROM/DVD.

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Invites all Professional Organizations to Sponsor our Annual Conference

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