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Pressure Vessels and Piping Division Newsletter

Young W. Kwon, Editor *Spring 2008*

A Message from the PVP Division Chair

James F. Cory, Jr.

I am pleased to report that the PVP Division is in good health. We are financially strong, we have 20% of our membership attending our annual conference, PVP Membership is modestly growing, and we continue to maintain a global membership. Thanks to all in the PVP family.

Preparation for the PVP 2008 Conference in Chicago, Illinois, promises an exceptional technical and social program led by Mr. Artin A. Dermenjian, Conference Chair, and Dr. Luc H. Geraets, Technical Program Chair.

I am pleased to announce that the PVPD Executive Committee (EC) has approved the appointment of Dr. Dennis K. Williams as the incoming EC member. During his long tenure with PVP, Dennis has served as the Chair of the Design and Analysis Committee and has published numerous technical papers and tutorials. He is an Associate Editor of the Journal of Pressure Vessel Technology (JPVT) and recently organized a Design and Analysis volume. Dennis will be serving as the Honors Chair as Luc advances to Conference Chair for 2009.

The EC has recently approved the following appointments: I welcome Dr. Jan Keltjens as Chair of the High Pressure Technology Committee, and Dr. Maher Y. A. Younan as Chair of the PVP International Committee. I also am pleased to announce the re-appointments of Dr. Marina B. Ruggles-Wrenn, as Chair of the Design & Analysis Committee, Dr. Gora S. Chakrabarti as Chair of the Codes & Standards Committee and Dr. Dennis H. Martens as Chair of the Operations, Applications and Components Committee. Let us continue to support them in their duties.

I am pleased to announce that the PVPD Outstanding Service Award has been renamed the S. S. Chen PVP Service Award, in honor of Dr. S. S. Chen. In 1987, S. S. was the first Chairman of the Fluid Structure Interaction (FSI) Committee and was instrumental in the development of the long standing FSI Symposium. He also served as PVP Division Chair in 1995-1996.

I would like to recognize Dr. Judith A. Todd for her recent accomplishment as one of the recipients of the 2006 Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring. On November 16, 2007, Judy met in the White House Oval Office with President George W. Bush where she and others were presented with their awards.

During the most recent EC and Senate meeting, a plan was proposed to update the PVP Division Bylaws and Operating Procedures. This initiative was started to reflect the recent changes and innovations in Division practices.

Warren Bennis said: *"Innovation— any new idea—by definition will not be accepted at first. It takes repeated attempts, endless demonstrations, monotonous rehearsals before innovation can be accepted and internalized by an organization. This requires courageous patience."* Well, the ASME Conference Webtool has been the most dramatic innovation affecting the PVP Division in recent history, and perhaps the most controversial. At this date I believe that we have now accepted the Webtool. It has affected every Author, Session Developer, Technical Program Representative, Conference and Technical Chair. It debuted at the Denver Conference under Dr. M. K. Au-Yang and Dr. Judith A. Todd, Conference Chair and Technical Chair respectively. The Webtool provides a fixed structure and a high level of visibility to the development of the conference; all accessible from any computer on the Web. It facilitates the development of the session volumes and the preliminary and final programs. Instead of a select few people developing the conference content, it is the entire participating membership that creates it. We went from the F08 forms and email to a full web presence. Admittedly, there is still some level of frustration in using the tool, but the benefits of time saving and quality have been significant

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Message from Division Chair
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in conference development. That's where patience comes in.

The adoption of CD's and DVD's for publication volumes was another innovation, providing a state of the art publication medium, allowing rapid search and convenience, while eliminating the need for paper.

PVP is now using Electronic Registration for the annual conference. It was first used last year for the PVP 2007/CREEP8 Conference in San Antonio. Now, on-line registration is "live" and acknowledgment is provided immediately after registration with an e-mail confirmation. It frees up conference personnel and provides up-to-date reports, printed on demand, giving immediate feedback to conference organizers.

The Sessions at a Glance has been around for several years. It first started during the 2002 Vancouver Conference by Mr. William J. Bees. The Sessions at a Glance provides a complete view of the entire conference schedule on a single page. It has become a mainstay at the conference and is a best practice for PVP.

One significant change that will affect the Division is yet to come, with the 2009 Conference in Prague, Czech Republic. This will be the first time that a PVP Conference will be held outside of the Americas. It was the vision and passion of Dr. Luc H. Geraets that set this course. It has taken a great deal of work to organize and to understand the scope, costs and risks. However, what is not surprising is that it represents the international makeup of PVP. We look forward to a successful venture into Europe.

We should continue the innovation for the betterment of our Division, provide on-going training of our organizers to carry on PVP Division's world class practices and continue to communicate and pass on the history of our Division.

In closing, my position as the PVP Division Chair will end at the Honors luncheon during the Chicago Conference. I would like to thank the Technical Committee Chairs, EC, Senate, TPR's, the membership and ASME staff that I have worked with. I would also like to thank Dr. Sam Y. Zamrik, now the President of ASME, for his leadership, advice and continued dedication to PVP. It has been an honor to serve on the Executive Committee for the ASME PVP Division. I look forward to seeing you in Chicago at PVP 2008.

James F. Cory, Jr.
Chair, PVP Division

PVP-2008 Chicago, Illinois July 27–31, 2008

A Message from the Conference Chair


Artin A. Dermenjian

Preparations for the 2008 ASME Pressure Vessels and Piping Division Conference are well under way. The conference venue is Marriott on Magnificent Mile, Chicago, Illinois, July 27 – 31, 2008, with participation by the ASME NDE Division, Korean Society of Pressure Vessels and Piping (K-PVP), Chinese Society of Pressure Vessels (C-PV) and Japan Society of Mechanical Engineers (JSME).

We expect to have a great conference with well over 600 papers and 170 technical sessions. The Conference Plenary Session is on Monday, July 28, 2008. The Plenary Speeches include:

Opening Remarks by Dr. Sam Zamrik, ASME President 2007–2008

"New Reactor Licensing: Design Reviews and Engineering Issues," presented by Laura A. Dudes, Deputy Director, Division of Engineering Office of New Reactors Nuclear Regulatory Commission

"Planning for Success: Reasoned Expectations for the New Nuclear Plant Construction," presented by Anthony R. Pietrangelo, Vice President, Regulatory Affairs, Nuclear Energy Institute.

The NDE Demonstration Forum and Software Demonstration Forum are scheduled for Monday, July 28, 2008, and Tuesday, July 29, 2008, respectively.

We will also have a Special Tutorial scheduled for Sunday afternoon, July 27, 2008, ***"The Engineer in the Witness Chair,"*** and three Technical Tutorials scheduled on Monday July 28, 2008, ***"Recent Developments in Analysis and Design of Piping for Seismic Loads,"*** on Tuesday July 29, 2008; ***"Applications of the ASME Code to Radioactive Materials Packaging,"*** and on Thursday July 31, 2008; ***"Automated Ultrasonic Testing vs. Radiography."*** In addition there will be two workshops conducted by ANSYS Inc., the first on Sunday, morning July 27, 2008, ***"Rapid Structural Analysis for Pressure Vessel Design,"*** and the second on Sunday afternoon, July 27, 2008, ***"Modeling Fluid Structure Interaction."***

We have also planned for exciting social events beginning with the conference-wide reception on the evening of Monday July 28, 2008, and a great conference social program on board of the Luxurious ***"Spirit of Chicago"*** for the evening of Wednesday, July 30, 2008, which will provide a unique opportunity to view the beautiful ***"Chicago Skyline"*** from Lake Michigan. There will be two separate sightseeing tours for the families and guests on the mornings of Monday July 28, 2008 and Tuesday July 29, 2008.

Visit the conference web site at http://www.asmeconferences.org/PVP08 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 prior to the cut-off dates indicated on the registration forms.

We look forward to seeing you in beautiful Chicago.

Artin A. Dermenjian
PVP-2008 Conference Chair

Awards Presented at the PVP-2007/CREEP8 in San Antonio


Luc H. Geraets

The Honors and Awards Luncheon of the PVP07-CREEP8 Conference has been a tremendous opportunity to recognize prominent members of ours,

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Message from Honors Chair
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through ASME and/or PVP Division awards, for their voluntary contributions to the Society, the Division, and the PVP industry.

Two ASME Dedicated Service Awards were presented to Judith A. Todd and William J. Bees. Judith, as Chair of the PVP Division (2006–2007), was also presented the Board of Governors Award. Kohei Suzuki has been solicited by ASME to present the Calvin W. Rice Lecture. Wing Lau Cheng, Marvin J. Cohn, Frantisek L. Eisinger, David H. Nash and Dennis K. Williams were elevated to the Fellow grade of ASME.

At the Division level, the Pressure Vessels and Piping Medal was presented to Dr. Carl E. Jaske. Carl has been at CC Technologies (a DNV Company) since November 1990. Prior to joining CC Technologies, he was at Battelle Memorial Institute in Columbus, Ohio for twenty-three years. Carl has been active in ASME since joining in 1968, and with PVP since 1978, by developing and presenting tutorials, publishing and reviewing papers, developing the NDE Forum, and organizing sessions. Carl has chaired the Materials and Fabrications Committee, and served as Publications Chair while on the PVP Executive Committee. Carl chaired the PVP93 Conference in Denver, and the PVP Division. Carl is also active with the ASME Pipeline Division where he has served in various capacities. Carl is an ASME fellow.

The PVPD Outstanding Service Award was presented to Dr. Dennis K. Williams. On behalf of the ASME NDE Division, we have been honored to present the NDE Engineering Founders Award to John Michael Farley.

Certificates of Appreciation or Recognition were presented to various individuals for services as officers for the Division and CREEP8 (Technical Committee Chairs, CREEP8 Chairs, Vice-Chairs and Secretaries, Associate Editors of the Journal, etc.), services to Technical Committees, outstanding performance at the Vancouver 2006 Conference (Papers, Sessions), or Conference special services for PVP2007 (authors of Tutorials, Plenary Speakers, Technical Program Representatives, etc.). Last but not least, awards, each consisting of a certificate and a $600 check, were presented to the seven semi-finalists (originated from four continents and six countries) in the Student Technical Paper Competition.

Luc H. Geraets
Chair, PVPD Honors and Awards

PVPD Communications News


Young W. Kwon

There were nine post-conference symposium volumes published out of PVP-2007/CREEP8. In particular, the front matters of the post-conference volumes were changed in order to better recognize the contributors so that their names are shown in the cover page, as well as in a separate page inside each volume. In addition, from PVP-2008, the CD publication will includes the major editors' names in the table of contents of each track.

Based on the present number of papers accepted in PVP-2008, eight post-symposium volumes are being planned for publications. Those are *Codes & Standards — 2008*, *Computer Applications/Technology & Bolted Joints — 2008*, *Design and Analysis — 2008*, *Fluid-Structure Interaction — 2008*, *High-Pressure Technology*, *Nondestructive Evaluation, and Student Paper Competition — 2008*, *Materials and Fabrication — 2008*, *Operations, Applications, and Components — 2008, and Seismic Engineering — 2008*.

PVPD newsletter is being published in Fall/Winter and Spring, respectively. As seen in the last newsletter, the membership and JPVT links were added in the newsletter as requested. In addition, a flyer for the annual PVP conference has been made to advertize it in many different other meeting sites.

Young W. Kwon
Chair, PVPD Communications

Journal of Pressure Vessel Technology News


G. E. Otto Widera

We would like to welcome three new Associate Editors to *JPVT*: Dr. L. Ike Ezekoye, in the Operations, Applications & Components area; Dr. Shawn Kenny, in the Pipeline Systems area; and Dr. Samir Ziada, in the Fluid Structure Interaction area. A most sincere thank you to the *JPVT* Associate Editors whose terms expire in 2008: Bill Koves, Donald Mackenzie, Ed Rodriguez, Toshiyuki Sawa, Mingde Xue, Young Ho Park, T.-L. (Sam) Sham, Maher Younan, Dennis Williams, Ricky Dixon, Noel O'Dowd, Douglas Scarth, Tribikram Kundu and David Raj. Many thanks to all of these colleagues for their contribution to the success of the Journal.

The May 2008 issue of *JPVT* features a special area of concentration of outstanding papers from the 2006 IPC Conference. Dr. Sviatoslav (Slava) Timashev served as Guest Editor for the pipeline papers in this issue. Beginning with the May issue, *JPVT* will serve as the journal for publication of Pipeline Systems area papers.

The page budget for *JPVT* has been increased to 800 pages effective in fiscal year 2009 (beginning July 1, 2008). Four issues of *JPVT* will be published in calendar year 2008, with an increase to six issues annually, beginning in calendar year 2009. The increased page budget, combined with the new e-First publishing system implemented by ASME, will shorten the time from paper submission to paper publication. The e-First publishing concept is based on First In, First Out (FIFO). The objective is to streamline the publishing process and shorten the time to publication. The goal is to publish a paper as quickly as possible once the peer review has been completed. As soon as any corrections to the publisher's proof are received, made, and signed-off on by ASME

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JPVT News

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the paper will be published on-line in the next available issue of the JPVT. An issue will close when its page budget or scheduled closing date is reached. When an issue closes a new issue is immediately opened so that the publication process is continuous. After an issue closes the print version will be created and distributed as usual.

I invite you to submit your papers via the Journal Web tool at http://journaltool.asme.org. 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 or by phone at 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 or by contacting ASME Customer Service at the e-mail address or phone number shown below.

Have questions? Contact Customer Service at: E-mail: infocentral@asme.org Phone: 1-800-843-2763 or 1-973-882-1170.

G. E. Otto Widera
Journal Editor

Tutorials for PVP-2008

Michael E. Nitzel

The upcoming 2008 PVP Conference will include a full slate of tutorials and workshops. I hope you will find time in your busy conference schedule to attend one or more of these tutorials or workshops. Following are brief descriptions of the presentations in each category.

Tutorials

Special Tutorial

The Engineer In The Witness Chair,
on Sunday, July 27, 4:00 pm – 6:00 pm, by Dr. Dennis K. Williams, Sharoden Engineering Consultants. This presentation is intended to introduce the practicing consultant and corporate engineering specialist to the particulars of providing "expert witness" testimony in the courtroom. The role of the engineer in the litigation process is covered from initial client contact to a day in the witness chair. Topics include the engineer's investigation, the importance of the discovery process, depositions, and the engineering expert witness at trial. Case studies, including those involving piping components and ASME B&PV Code vessels, will be utilized.

Technical Tutorial I

Recent Developments in Analysis and Design of Piping for Seismic Loads,
on Monday July 28, 2:00 pm – 5:45 pm, by Abhinav Gupta & Vernon C. Matzen, North Carolina State University. This tutorial is intended for engineers working in piping analysis and design. The emphasis will be modeling, analysis, and design for seismic loads. The tutorial will be divided into four main categories:

Fundamental concepts in structural dynamics and modeling;
Recent developments in response spectrum method for seismic analysis of piping;
Background and recent developments in the definition of B2 Stress Indices for piping components; and
ASME Initiative on reliability-based load and resistance factor design for piping components.

Each topic will include representative examples for understanding the basic concepts and case studies from actual power plant applications.

Technical Tutorial II

Applications of the ASME Code to Radioactive Materials Packaging,
on Tuesday, July 29, 2:00 pm – 5:45 pm, by Allen C. Smith, Savannah River National Laboratory and Y.Y. Liu, Argonne National Laboratory. The tutorial will familiarize the participants with the functional and regulatory requirements for radioactive materials packages. It will show how the regulations and practical considerations result in the imposition of the ASME Code for package design and fabrication. The following topics will be covered:

Relationship between regulatory requirements and applicable Code Sections,
The Code Sections typically employed in design and fabrication of packaging,
The relationship of the Code to other functional requirements, and
Recommended practices for regulatory testing of packages.

Technical Tutorial III

Automated Ultrasonic Testing vs. Radiography (AUT vs. RT),
on Thursday, July 26, 8:30 am – 12:15 pm, by Michael Moles, Olympus NDT Canada. This seminar overviews the developments in automated ultrasonics (AUT), and compares AUT with radiography (RT) for weld inspections. The advantages — and limitations — of AUT are described, including a brief mention of the economics of switching from RT to AUT. Though radiography is the current technology in many cases, it has major limitations on safety, environment, and licensing, plus limited capability for detecting critical planar defects. In contrast, AUT has a high Probability of Detection of critical planar defects, plus the capability of sizing defects. In particular, the capability of AUT to size defects vertically permits the use of Engineering Critical Assessment, which is more beneficial than workmanship criteria.

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

Two workshops will be sponsored by ANSYS, Inc. Specific information includes:

Rapid Structural Analysis for Pressure Vessel Design,
on Sunday, July 27, 9:00 am – 11:30 am, by Adrian Gamboa, ANSYS, Inc., Seattle, WA.

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Tutorial and Workshop News
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Pressure vessel codes can only be applied to known values of stress, and this cannot always be easily determined by hand calculation with more complex vessel geometries. The ANSYS Pressure Vessel Module addresses this need by helping to build, analyze, and check pressure vessels against industry standards. This workshop will show how to use the ANSYS Pressure Vessel Module to analyze and check a design, and give hands on experience with examples.

Modeling Fluid Structure Interaction Sunday,
on Sunday, July 27, 1:00 pm – 3:30 pm, by Hoang Vinh, ANSYS, Inc., El Dorado Hills, CA. This workshop will focus on the use of ANSYS products to perform semi-implicit matrix-coupled fluid-structure-interaction (FSI) calculations within the ANSYS Workbench environment. Given some familiarity with finite element analysis and computational fluid dynamics, attendees will be able to setup and perform FSI calculations at the end of the workshop.

Michael E. Nitzel
Chair, PVPD Professional Development

PVP Division Senate


M. K. Au-Yang

This year the PVP Division Senate has two major functions: The traditional Student Paper Competition and a Special Senate Meeting aimed at cultivating new ideas to further the Division's contribution to the Society and to the industry.

Student Paper Competition 2007

The 15th Annual Pressure Vessels and Piping Division (PVPD) Student Paper Competition (SPC) was held during the 2007 American Society of Mechanical Engineers (ASME) PVPD Conference in San Antonio, Texas USA. The high quality of the competing papers impressed the attendees of the two sessions. The following student authors were the winners of this closely ranked competition:

Winner in the Ph.D. category:

Anna Paradowska, Monash University, Clayton, Victoria, Australia, with her paper titled, "NEUTRON AND SYNCHROTRON DIFFRACTION MEASUREMENTS OF RESIDUAL STRESS IN STEEL WELDMENTS."

First runner-up in the Ph.D. category:

Nor Eddine Laghzale, Ecole de Technologie Superieure, Quebec, Canada, with his paper titled, "ANALYTICAL MODELLING OF HYDRAULICALLY EXPANDED TUBE-TO-TUBESHEET JOINTS."

Winner in the MS category:

Tae-Kwang Song, Korea University, Seoul, Korea, with his paper titled, "ELASTIC-PLASTIC J AND COD ESTIMATES FOR CIRCUMFERENTIAL THROUGH-WALL CRACKS IN BETWEEN ELBOWS AND STRAIGHT PIPES UNDER BENDING."

The winners are congratulated on behalf of the Senate of the PVPD Past Chairs and the PVPD Executive Committee for their achievements.

Student Paper Competition 2008

In the July 2007 meeting, the Executive Committee unanimously approved an increase in the monetary values of the awards in the Student Paper Competition to offset the high cost of travel and hotel accommodations. A $1,000 award will be presented to each of the lead authors in the finalist papers who presents the paper in the Conference. In addition, in each of the Ph.D. and MS/BS categories, up to three awards ranging in values of $1,000, $800 and $500, will be presented to the first, second and third best papers. Thus, each finalist who presents the paper in the Conference will receive at least $1,000 with a chance of winning up to $2,000. Each student author will also receive an award certificate, free registration to the Conference, with free admission to the Honors and Awards Luncheon and Conference Wide Reception. This will take effect in the 16th Student Paper Competition to be held in PVP-2008.

The effect of this increase in award values is apparent. The responses to this year's Student Paper Competition almost doubled compared with that of last year. This requires many hours of volunteer time to review and grade the papers. The Senate President is calling upon the help of the Division's Senators, Committee Chairs and active contributors to the PVP Conference to ensure a very successful 16th Student Paper Competition.

Special Senate Meeting

A special Division Senate meeting will be held in the Spring EC/Senate Retreat and Training. The objective of this meeting is to brain storm ideas to further the Division's contribution to the Society and to the industry. It is expected that this meeting will be an annual event in the future. To be specific, this year's meeting will focus on the following two topics:

1. Attracting young engineers to ASME and to the Division; and
2. Attracting industry participation in ASME and PVP activities.

Ideas from all concerned Division members: Senators, Committee Chairs, long-time or recent participants are solicited. Please forward your suggestions to the Senate President.

M. K. Au-Yang
Senate President

Division Membership


Michiel P. H. Brongers

As of March 2008, PVP membership stood at 3,571, which is approximately 4.2% of the total ASME membership. This number put PVP as 6th of 38 technical divisions and institutes within ASME, with regard to membership.

Retaining and recruiting PVP members is key to the Division's health. We are seeing that the annual conference brings out a large portion of members to join in the exchange of technical ideas. In 2007, the conference in San Antonio had a total of 706 registrants, which is about 20% of PVP members! This high percentage of conference participation is a testament to the great efforts of the Division, and the importance of the Annual Conference to our membership.

With the theme "Each One Bring One", I

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Membership News

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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

Dr. Judith Todd, PVPD Senator, received a 2006 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring in the White House on November 16, 2007

Codes and Standards Technical Committee

Gora Chakrabarti

The Codes and Standards (C&S) 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. As such, it provides a continuing association with the Committees associated with the ASME Boiler and Pressure Vessel Codes, the ASME Piping Codes, and other International Codes and Standards.

The last PVP conference was held in San Antonio, Texas. It was a very successful conference. The Codes and Standards Committee sponsored 12 major technical topics with multiple technical sessions under each topic, with 66 papers presented. This year's PVP conference will be held in Chicago, Illinois. Kunio Hasegawa is the Lead TPR and Doug Scarth is the Co-TPR of the C&S Committee for this year's conference.

Preparations are well underway for the PVP-2008 conference. A total of 16 major topics or symposia comprising 33 total technical and panel sessions are being planned. A few of these sessions are jointly sponsored by the Materials & Fabrication (M&F)and the Computer Technology (CT) Committees. Dr. Sumio Yukawa, who passed away, was the driving force behind the advances in Environmental Fatigue Issues. As a memorial tribute to his honor, special sessions on Environmental Fatigue are being planned in the upcoming conference.

The following is a listing of the major topics or symposia organized and sponsored by the C&S Technical Committee:

- Structural Integrity of Pressure Components;
- Fatigue Issues in Pressure Vessels;
- Environmental Fatigue and Fracture Toughness — A Memorial Symposium in Honor of Dr. Sumio Yukawa (Jointly sponsored by M&F);
- Interaction and Modeling for Multiple Flaws (Jointly sponsored by M&F);
- Emerging Codes and Standards Issues;
- ASME Code Section XI Activities;
- Recent Developments in European Codes and Standards;
- Recent Developments in Korean Codes and Standards;
- Recent Developments in Chinese Codes and Standards;
- Recent Developments in Japanese Codes and Standards;
- Recent Developments in European Codes and Standards;
- High Temperature Codes and Standards;
- Stress and Strength for Design Criteria of High Temperature Components;
- API 579 / ASME Code Fitness-for-Service Activities;
- Ratcheting Issues in Pressure Vessels Design (Jointly sponsored by CT); and
- Constraint Loss Evaluation in Fracture Assessment for Codes and Standards.

Gora Chakrabarti
Chair C&S Committee

Computer Technology Technical Committee

The Computer Technology (CT) Technical Committee is an advocate of development and application of computer technology within the pressure vessel and piping industry. CT also advocates proper documentation, verification, and qualification of computational tools for design and analysis applications. With rapidly increasing capabilities of hardware and the accompanying software, computer technology has demonstrated the ability to address a variety of technical challenges, ranging from full scale manufacturing simulations to fluid solid interaction modeling, all the way down to atomistic modelling of corrosion.

The CT Committee provides a forum to examine emerging computer-related technical developments affecting design and analysis issues, engineering process capabilities, hardware development and usage, software tools, computational algorithms, database management, and internet applications. Discussions and papers addressed the latest developments in linear and nonlinear mechanics, material behavior modelling, manufacturing process simulations, smooth particle dynamics, bolted joint technology, modelling techniques, process simulations, and database applications.

During the PVP-2007 in San Antonio, in addition to sponsoring the Computer Software forum, the CT Committee presented nine (9) technical sessions and one panel discussion. Of these sessions, six (6) technical sessions relating to design and analysis of bolted joints were developed in conjunction with the PVRC Bolted Flange Connections Committee, lead by Drs. Hakim Bouzid, Hans Kockelmann, and Toshiyuki Sawa. In addition, several of the overall sessions were jointly developed through teaming with the Fluid Solid Interactions, and Manufacturing and Fabrication Committees. The CT Technical Committee wishes to thank Technical Program Representative Dr. Hakim Bouzid for his work in overseeing the development of these CT sessions.

For PVP-2008 in San Antonio, Texas, 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, Technical Program Representative Dr. Hakim Bouzid has championed this year's technical sessions addressing a wide range of computer technology related topics. In addition, the CT 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 CT Technical Committee meeting will be held in conjunction with the PVP-2008 Conference, in Chicago, Illinois. The CT 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 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 CT Chair John Martin at 518-395-6755 or via email at jmartin8@nycap.rr.com.

John A. Martin
Chair, CT Committee

Design and Analysis Technical Committee

Marina B. 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 17 technical sessions at the PVP-2007/CREEP8, Conference held in San Antonio, Texas, where over 60 papers were presented. In addition, D&A's Bob Leishear conducted a technical tutorial entitled *Fundamentals of Water Hammer in Industrial Systems.* The Committee is planning 25 technical sessions for PVP-2008, in Chicago, Illinois.

The Committee met on July 23, 2007 in San Antonio, Texas. The meeting was attended by 21 members, two prospective members, two guests, PVPD Senators, William J. Bees and T. H. Liu, and PVPD EC member, Artin A. Dermenjian. The D&A Committee welcomed two new members elected at the PVP-2007: I. W. Brown and S. Massey. Three new prospective members will be considered at the upcoming PVP-2008 Conference.

We look forward to seeing you at PVP-2008 in Chicago. Anyone interested in participating in the Committee activities is invited to attend the D&A Committee meeting at PVP-2008 and/or contact Prof. Ruggles-Wrenn (marina.ruggles-wrenn@afit.edu).

Marina B. Ruggles-Wrenn
Chair, D&A Committee

Fluid-Structure Interaction Technical Committee

Michael Fisher

More than 50 papers make up the contribution of the FSI Technical Committee to this year's ASME PVP Conference. High level technical papers from all over the world deal with the latest developments in fluids, structures and their interaction.

Basic investigations cover both numerical and test methods, where applications come from tube bundle vibration, FSI in flexible confinements like pipelines, turbomachinery, application of shock waves, multiphysics, transient phenomena, sloshing and extreme loading. Five symposia were organized, giving a total of more than a dozen sessions.

Again numerical methods mark the progress in FSI during the past couple of years, due to both significant increase of

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FSI Committee

(Continued from page 7)

computer power and increasing knowledge in methods that cover the specific requirements to resolve FSI phenomena.

As the Chair of the FSI Technical Committee and on behalf of all my colleagues, I would like again to thank ASME for their excellent support in organizing this huge kind of technical conference. Next, my thanks go to all colleagues who volunteer to contact possible authors, to review their papers, and to organize and chair sessions. Last but not least, special thanks go to the authors. Without their time and effort, this conference would just not happen. Every time we need to keep in mind that this conference is an event mainly set up by volunteers, and this is even more a reason to look forward to a great conference 2008.

Michael Fischer
Chair, FSI Committee

High Pressure Technology Technical Committee

Daniel T. Peters

The High Pressure Technology (HPT) Committee held its annual meeting at the PVP-2007 Conference in San Antonio , Texas, and was a joint conference with CREEP8. Membership included representation from four continents. The High Pressure Technology Committee focuses on the research, design, development and operation of high pressure equipment and systems. This is an area of pressure technology that is presently experiencing technological advancements in many areas, while still remaining a highly experienced based art form. The Committee provides technical support to the ASME Codes and Standards Division in the development of new and updated Codes for high pressure vessels, components and systems.

At PVP-2007/CREEP8, the Committee presented four technical sessions with 14 papers. Special thanks goes out to the Technical Program Representative (TPR), Chris Morgan, and the individual session developers.

At PVP-2008, the sessions are "High Pressure Design and Analysis," "New and Emerging Methods of Application and Advancement in High Pressure Technology," and "Methodology in Material Advancement." There will also be two sessions on impulsive loading, "Paper/Panel Session on Design and Analysis of Impulsively Loaded Vessels", and "Panel Session on Impulsive Vessels." This is a continuation of work to develop rules for the design of these vessels. Ricky Dixon, the 2008 TPR, has done an excellent job planning and coordinating all five technical sessions. Anyone interested in high pressure technology activities is welcome to attend the next committee meeting at PVP-2008 in San Antonio and participate.

Daniel T. Peters
Chair, HPT Committee

Materials and Fabrication Technical Committee

Poh-Sang Lam

The M&F Committee promotes the research, development, and sharing of technical information of 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 methodology, subcritical crack growth, environmental effects including hydrogen and high temperature, mechanistic materials modeling, advanced material development, 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 improvements in structural design, structural integrity assessment, and fitness-for-service acceptance criteria for pressure vessels and piping systems. The M&F Committee has five subcommittees: Materials, Fabrication, Fracture, Subcritical Crack Growth, and Fitness-for-Service (for nuclear, petrochemical, alternative energy, and fossil industries).

At PVP-2007 (jointly with CREEP8), the M&F TPR (Track Organizer), David Lidbury, along with all the topic/session organizers, developed 15 topics and symposia with 32 paper sessions. A total of 119 written papers from M&F topics were included in the conference proceedings volume, which was published in the PVP-07/CREEP8 Conference CD-ROM. In addition, M&F provided a PVP-2007 tutorial session on "Failure Analysis of Engineering Equipment." Because of the multidisciplinary nature of the M&F Committee, eight sessions were organized in collaboration with the Codes and Standards Committee, and two sessions with CREEP8. The M&F Committee also sponsored the NDE demonstration forum and assisted in developing the Nanotechnology panel session. It was announced during PVP-2007 that the M&F-organized, "Fracture at High Temperatures" won the 2006 PVPD Outstanding Technical Session Award.

For PVP-2008 to be held in Chicago, the M&F technical program is led by Noel O'Dowd. The planned program includes 18 topics/symposia, with 47 paper sessions, and an NDE demonstration forum. An overwhelming response and support has been received from the pressure vessels and piping community. We expect to have another successful year at the Pressure Vessels and Piping Conference.

The M&F has grown steadily through the years, and is determined 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 the pressure vessel technology. For more information please contact Poh-Sang Lam at ps.lam@srnl.doe.gov.

Poh-Sang Lam
Chair, M&F Committee

Operations, Applications & Components Technical Committee

Dennis H. Martens

The OAC committee has a good selection and quantity of technical papers accepted for the PVP-2008 Conference. We look forward to an excellent technical program and good participation at the conference.

The OAC continues to discuss methods to gain 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.

Our committee motto should be "OAC is a great place to network with peers, find technical support, and establish long term working relationships." This is a principle reason that we all participate and encourage our current members and new members to utilize these attributes as a challenge that we all need to respond to.

Allen Smith publishes the OAC committee newsletter several times each year which includes information such as topic organizer volunteers and committee members listings with contact information. Please contact Allen at allen.smith@srnl.doe.gov to obtain a copy of the newsletter or to provide information for future newsletters.

The OAC welcomes your attendance at our technical sessions and committee meeting in Chicago. Please join us.

Dennis H. Martens
Chair, OAC Committee

Seismic Engineering Technical Committee

Vernon C. Matzen

The Seismic Engineering Technical Committee (SETC) is focused on the promotion and enhancement of the study and application of seismic engineering, as it relates to the design and operation of pressure vessels, 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; and structural reliability and risk assessment.

Ten paper sessions and one forum were presented by the SETC at the PVP-2007 Conference, in San Antonio, Texas. Tom Clark, for the second year in a row, served as Technical Program Representative (TPR), coordinating the committee's sessions.

In the PVP-2008 Conference, the SETC will have eight sessions with 38 papers, as well as Gerry Slagis' popular Forum on Appropriate Piping Design for the Year 2010. Spyros Karamanos is the TPR. The SETC is sponsoring one tutorial: *Recent Developments in Analysis and Design of Piping for Seismic Loads*, by Abhinav Gupta and Vernon Matzen.

The SETC officers are: Chair, Vernon Matzen; Vice Chair, Tomoyo Taniguchi; and Secretary, Tom Clark. The Associate Editor for Seismic Engineering on the Journal of Pressure Vessel Technology (JPVT) is Vernon Matzen.

The committee is pleased that previous SETC Chair, Mike Nitzel, is now 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 and desire more information to contact me at 919-515-7736, or via email at matzen@ncsu.edu.

Vernon C. Matzen
Chair, SE Committee

PVP 2009

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Join us in Prague, Czech Republic, for the 2009 ASME Pressure Vessels and Piping Conference!

Prague Hilton
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"Sustainable Energy for the Third Millennium"

The PVP conference continues to be the outstanding international technical forum for the participants to further their knowledge-base by being exposed to diverse topics and exchange opinions and ideas both from industries 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, Middle East, Asia, the Americas and the Oceania islands.

The ASME Pressure Vessels and Piping Division is the sponsor of the PVP-2009 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) Student Paper Competition.

SCHEDULE: Abstracts are due by **November 17, 2008**. Authors will be notified of abstract acceptance by **December 15, 2008**. Draft papers are due by **March 2, 2009**. Paper peer review comments will be returned by **March 30, 2009**. Final reviewed papers in ASME format for publication and the 1903 Copyright Transfer Form for each paper must be received by **April 20, 2009**. All accepted papers will be published via CD-ROM/DVD.

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