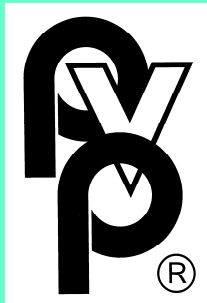


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Pressure Vessels and Piping Division Newsletter

M. B. Ruggles-Wrenn, Editor

Spring 2006

Message from the PVP Division Chair



M. K. Au-Yang

Greetings from your Division Chair. As I am about to leave office I like to tell you that the Division is in its best position ever. Our custodial fund is healthy and, with a very successful 2006 PVP Conference shaping up, the Division will remain financially self-sufficient for the foreseeable future. From another perspective, the re-emergence of the energy crisis has helped the pressure vessels and piping industry to re-capture its visibility among the young engineers and engineering students. With the addition of 295 new members in the last 12 months, the PVP Division has the second largest primary membership within ASME. Last but not the least, our former Division Chair and long time active Senator Sam Zamrik, the pillar of the PVP Division, has been elected President of ASME. More on this later.

In response to the Society's request to develop its leadership role in emerging technologies, the Executive Committee established an interdisciplinary Nanotechnology Task Group chaired by Professor Young Kwon, former Chair of the Fluid-Structure Interaction Technical Committee and present member of the Executive Committee. This Task Group will draw mem-

bers from all the Technical Committees within the Division and interface with similar activities in other divisions. Professor Kwon will hold the first Task Group meeting in the PVP-2006 in Vancouver. Interested members are encouraged to attend.

At the conclusion of the Honors and Awards Luncheon in the 2006 PVP Conference, I'll have completed my six-year commitment serving in the Executive Committee of the Division. Professor Judy Todd, PVP-2006 Conference Chair and present Division Vice Chair, will assume the role of the Division Chair and continue to lead the Division in its important role in the pressure vessels and piping industry and in the training and education of new engineers. Helping the new Division Chair to fulfill her mission are the following new administrative and technical committee chairs:

Mr. Ron Hafner—incoming member of the Executive Committee

Dr. Gora Chakrabarti—incoming Chair, Codes & Standards TC

Professor Marina Ruggles-Wrenn—incoming Chair, Design and Analysis Technical Committee

Dr. Michael Fischer—incoming Chair, Fluid-Structure Interaction Technical Committee

Mr. Dennis Martens—incoming Chair, Operations, Applications and Components Technical Committee

Dr. Dennis Williams—incoming Publicity Chair and Newsletter Editor

Dr. Bill Short—Division Representative to the Board of Pressure Technology Codes and Standards.



Sam and Myrna Zamrik

Finally, on behalf of the entire Division, I want to congratulate our former Division Chair Sam Zamrik on being elected the President of ASME. Sam has long been an active Senator and supporter of the Division and Myrna Zamrik had served as the President of ASME Women Auxiliary. Under the leadership of the Zamriks I am sure everything will turn bright for ASME and even brighter for the PVP Division.

M. K. Au-Yang
Chair, ASME PVP Division

PVP-2006/ICPVT-11 in Vancouver, July 23-27, 2006



Judith A. Todd



S. Y. Zamrik

The PVP 2006/ICPVT-11 joint conference in Vancouver will attract over 700 technical papers organized into 196 technical sessions. Congratulations to all who have worked so hard to make this event a success. The final technical program and details of the overflow hotel can be found on the conference web site.

Please make your reservations early for the social events, particularly the Vancouver Harbor Dinner Cruise and Fireworks Festival, as tickets may be sold out before the conference. We have added a special cultural event at 6.00 p.m. on Sunday evening, when we will learn more about the Pacific Northwest Native American culture, history and traditions through stories, songs and dances, performed by the Chinook Song Catchers representing the Squamish and Nisga'a nations. Come prepared to dance and join in!

We extend a special welcome to our Plenary Speakers: David F. Torgerson, Senior Vice President and Chief Technology Officer of Atomic Energy of Canada Limited, and John R. Woolsey, President, McDermott Technologies, Inc, BWX Technologies, Inc. will open PVP06 with presentations on "Advances in Nuclear Power Technology" and "The Future of Nuclear Power", respectively;

Martin Prager, Executive Director, Materials Properties Council, Inc. will open ICPVT-11 with a presentation on "Lessons Learned, Lessons Not Yet Learned" and the role of global codes and standards; and to our PVP Medal Recipient Michel Pettigrew, Professor of Mechanical Engineering and BWC/AECL/NSERC Chair of Fluid-Structure Interaction at Ecole Polytechnique in Montreal who will receive the PVP medal in recognition of his contributions to solid mechanics, flow-induced vibrations, vibration damage caused by fretting wear,

and to the PVP Division.

Our guests will make new and renew old friendships at the daily continental breakfast, and experience the remarkable attractions of the Vancouver area during the Vancouver City Tour on Monday and the Majestic North Shore Tour to the Capilano Suspension Bridge and Grouse Mountain on Tuesday. Our social events will culminate with the Harbor Cruise and *Celebration of Light* – fireworks display on Wednesday evening. This year's attendees are equally representative of Asia, Europe and the Americas. We have an exceptional program organized by Jim Cory and look forward to seeing you all in Vancouver.

Judith A. Todd

PVP-2006 Conference Chair

Sam Y. Zamrik

ICPVT-11 Conference Chair

Four Tutorial Sessions at PVP-2006 in Vancouver



Artin A. Dermenjian

The PVP conference continues to be the international technical forum for the information exchange in different topics related to Pressure Vessel and Piping technologies. Tutorials present an excellent 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. Admission to the tutorial sessions is free and they are open to all registered conference attendees.

Special Tutorial is a 2 hour conference session usually held on Sunday afternoon. The session leader will make available the necessary presentation material.

Technical Tutorials are a ½-day conference sessions and are integrated in the conference schedule. 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 a proof that the attendee has participated in the "2 hour Special Tutorial" or the "4 hour Technical Tutorial". PVP Division will not assign Continuing Education Units (CEU) on these certificates how-

ever; attendees may negotiate CEU credits with their respective licensing boards. Following is the line-up for the tutorial sessions for the 2006 PVP conference. :

Special Tutorial

Public Speaking and Presentation of Technical Papers.

James E. Staffiera, FirstEnergy Corp.

Technical Tutorial I

Flow-Induced Vibration of Heat Exchangers.

Michel Pettigrew, Ecole Polytechnique, Montreal

Technical Tutorial II

European Codes and Standards for Design and Operation of Pressure

Equipments – New evolution and comparison with ASME Code.

George Bezdikian, Electricite de France

Claude Faigy, Electricite de France

Jean Marie Grandemange, Framatome-ANP

Stephane Chapuliot CEA - Commissariat à l'Energie Atomique

Technical Tutorial III

ASME Post Construction Standards – Repair of Pressure Equipment and Piping; ASME Post Construction Standard PCC-2.

Inspection Planning; ASME Post Construction Standard PCC-3

Charles Becht IV, Becht Engineering Co., Inc.

Clay Rodery, British Petroleum

Bob Sims, Becht Engineering Co., Inc.

I look forward to seeing you all at PVP-2006 in Vancouver.

Artin A. Dermenjian

Chair, PVPD Professional Development

PVPD Publications



Young W. Kwon

Year 2005 was a year of major changes in PVP Division. We started to adopt the web-based organization of the PVP annual conference. As a result, all papers were submitted and reviewed

through the website. All conference papers were published in a CD that was provided to all participants. Furthermore, there was a good amount of request for post-conference paper printouts by participants. Such demand resulted in

PVPD Publications Report

(Continued from page 2)

8 proceedings. The same format has been adopted for this year, too.

For 2006 PVP Conference in Vancouver, Canada, more 700 papers have been finally submitted and accepted. All those papers will be included in a CD for distribution to participants. In addition, 10 volumes of post-conference proceedings are being planned. Titles of the planned proceedings are shown below: *Codes and Standards; Computer Technology; Design and Analysis; Fluid-Structure Interaction; 6th FSI, AE & FIV and N Symposium; Materials and Fabrication; Operations, Applications, and Components; Seismic Engineering; High Pressure Technology, Nondestructive Evaluation, Pipeline Systems, Student Paper Competition; ICPVT.*

Young W. Kwon
Chair, PVPD Publications

Awards Presented at PVP-2005 in Denver



Luc H. Geraets

As usual, the Honors and Awards Luncheon has been a significant milestone in the course of the 2005 PVP Conference in Denver, with more than seventy members

recognized, through ASME and/or PVP Division awards, for their voluntary contributions to the Society, the Division, and the PVP industry.

Society awards were exceptionally abundant this year. Three ASME Dedicated Service Awards were presented, to Joe Sinnappan, Gerry Slagis and Ismail Kisisel. Two Board of Governors Awards were presented, to Ismail Kisisel as Chair of the PVP Division (2004-2005), and to Sam Zamrik, as Principal Editor of the Journal of Pressure Vessel Technology (1993-2005). Bill Bees, Jerry Bitner, Joe Kapp, Mike Nitzel and K.R. Rao were elevated to the Fellow grade of ASME.

At the Division level, the Pressure Vessels and Piping Medal was presented to Richard Gwaltney. Rich has a long career with Oak Ridge National Laboratory, while

being active within PVP. A former chair of the Division, Rich is a long time contributor to the Computer Technology and the OAC Committees, the PVP Conferences and the Journal of Pressure Vessel Technology. The PVPD Outstanding Service Award has been presented to Arturs Kalnins. Certificates of Appreciation or Recognition were presented to various individuals for services as officers for the Division (Technical Committee Chairs, Associate Editors of the Journal, etc.), services to Technical Committees, or Conference special services (authors of Tutorials, Plenary Speakers, Technical Program Representatives, etc.).

Last but not the least, awards, each consisting of a certificate and a \$600 check, were presented to the seven semi-finalists in the Student Technical Paper Competition.

Luc H. Geraets
Chair, PVPD Honors and Awards

Journal of Pressure Vessel Technology News

The Pressure Vessel and Piping Industry is constantly changing and improving. The Journal of Pressure Vessel Technology is an important tool in tracking these changes and improvements. Our mission is to maintain the extraordinary quality of the Journal and insure that it remains the premier journal of its type in the world.

There have been major changes at the Journal in the last several years. E-mail has replaced snail mail for the majority of our correspondence. Papers are now submitted, reviewed and, ultimately, published electronically. The advent of electronic communication makes the world of Pressure Vessels and Piping a much smaller place. We are able to share the ideas, research and expertise of our colleagues worldwide with a virtually instantaneous e-mail message.

Associate Editors do the majority of the work on the Journal. I would like to thank Mr. Greg Hollinger, Dr. Carl Jaske, and Dr. Rudy Scavuzzo, Associate Editors whose term ends in 2006, for their dedication and hard work. We welcome Dr. Wing Cheng, Mr. Rick Dixon, Dr. William Koves, Dr. Tribikram Kundu, Dr. Donald,

Mackenzie, Dr. Noel O'Dowd, Dr. Young Ho Park, Dr. David Raj, Mr. Edward Rodriguez, Dr. Toshiyuki Sawa, Dr. Donald Scarth, Dr. T.L. Sham, Dr. Dennis Williams, Professor Mingde Xue, and Dr. Maher Y.A. Younan, as new or reappointed Associate Editors. Professor Boris Blyukher, Dr. F.W. (Bud) Brust, Dr. Poh-Sang Lam, Dr. Vernon Matzen, Dr. Mordecai Perl, Dr. Michel Pettigrew, Dr. Mahendra Rana, and Dr. Ken Yoon continue to serve the Journal and our industry in their current term as an Associate Editor. The Journal could not be published without the efforts of this group and the efforts of dedicated reviewers.

I extend an invitation to you to submit your research papers and technical briefs. The Journal is THE site for the publication of the highest-quality articles on the design, analysis, fabrication, construction, inspection, operation, non-destructive evaluation and failure prevention of pressure vessels, piping, pipelines, power and heating boilers, pumps, valves and other pressure bearing components, as well as their related codes and standards. Applicable pressure technology areas of interest include dynamic and seismic analysis; equipment qualification; fabrication; fatigue and fracture prediction; finite and boundary element methods; fluid-structure interaction; high pressure engineering; elevated temperature analysis and design; inelastic analysis; life extension; lifeline earthquake engineering; PVP materials and their property databases; NDE; safety and reliability; and verification and qualification of software. All Journal submission may be done on-line using the Journal webtool at <http://journaltool.asme.org>. Detailed instructions on how to submit a paper, view and respond to reviews, edit your paper and track its progress are available on-line. My staff and I are always ready and willing to help you with any questions or concerns. You can reach me at jpvt@mu.edu. Jessica Bulgrin, my assistant, can be reached at jessica.bulgrin@marquette.edu. The phone number for the Journal's editorial office is 414-288-4427.

G.E.O Widera
Editor, JPVT

PVPD Programs



James F. Cory, Jr.

The PVP-2006/ICPVT-11 Conference will be held in Vancouver, British Columbia, Canada at the Vancouver Hyatt Regency Hotel. This year's conference is joint with the International Council of Pressure Vessel Technology.

The dates for the conference are July 23 - 27, 2006. The PVP Conference General Chair is Judith A. Todd and the Conference Technical Chair is James F. Cory, Jr. The ICPVT Conference Chair is G. E. Otto Widera and the Program Chair is Sam Y. Zamrik. More than 200 paper and panel sessions are planned, as well as tutorials, the NDE and Software Demonstration Forums, and Student Paper Competition.

The PVP -2007/CREEP8 Conference is planned for San Antonio, Texas at the Hyatt Regency San Antonio. This will be a joint conference with CREEP8. The conference dates are July 22 - 26, 2007. The Conference General Chair will be James F. Cory, Jr. and the Conference Technical

Chair will be Artin A. Dermenjian. The CREEP8 Conference Chair will be Carl E. Jaske. A Call for Papers has been issued and is available at the PVP Website <http://divisions.asme.org/pvp/call/index.html>. Preparations are also being made for the 2008 PVP Conference which will be held in Chicago, IL.

James F. Cory, Jr.
Chair, PVPD Programs

PVPD International Coordination



Kohei Suzuki

PVPD is certainly an international division in ASME. As shown in the figure which describes the statistics of number of presented papers at annual PVP conference, number of papers from the American continent, the European continent and the Asian & African continent is almost similar.

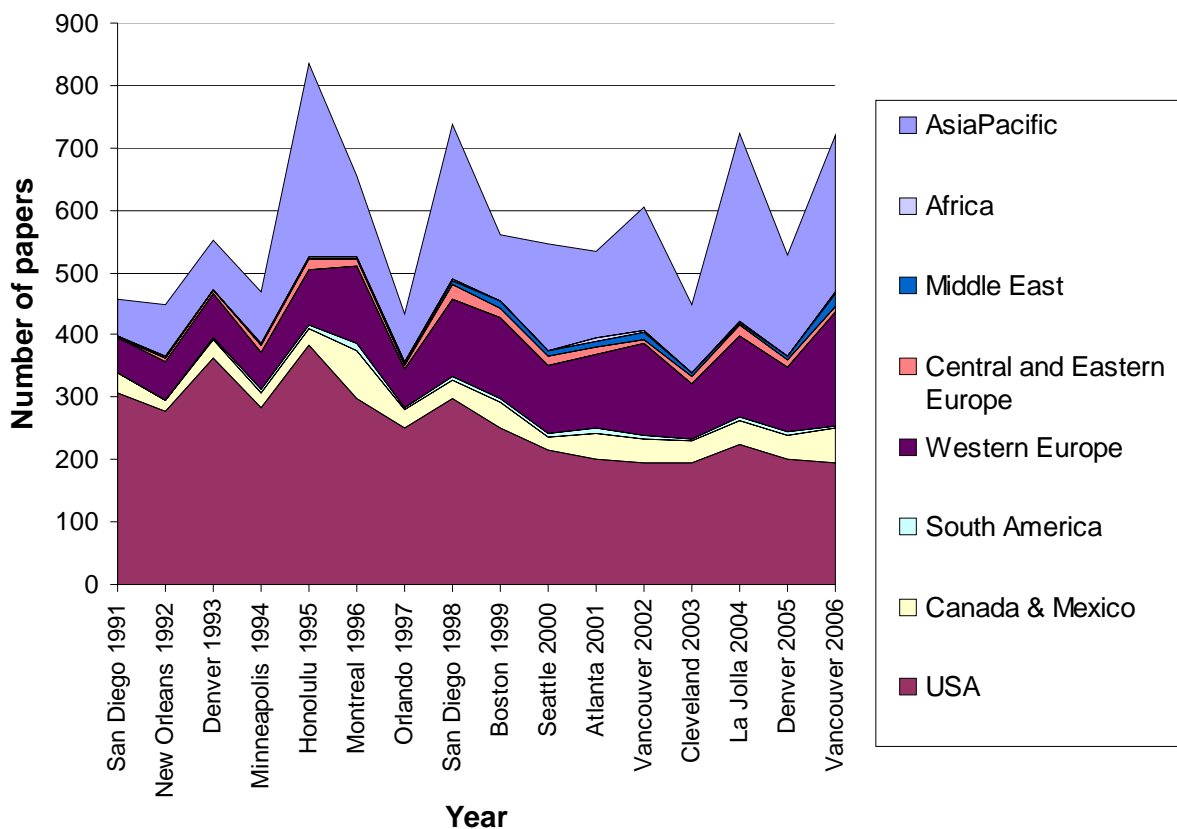
The International Coordination Committee is making all possible efforts to im-

prove international activity in the PVP division. The Committee includes 17 members from 11 countries: Belgium, Egypt, France, Germany, Greece, Italy, Japan, Korea, Netherlands, U.K. and USA.

Committee is currently considering the following suggestions to further improve the PVP international activities:

- Displaying nation flags of all participating countries at the PVP Conferences, particularly during the Honors Luncheon.
- Recognition of the international participation through international cultural events and ethnic clothing at the Conference events, such as a welcome reception.
- As the committee chair, I would like to invite all PVP colleagues to support the IC Committee with new ideas.

Kohei Suzuki
Chair, PVPD International Coordination





American Society of Mechanical Engineers

PVP-2007/CREEP8

CALL FOR PAPERS

2007 ASME PRESSURE VESSELS AND PIPING DIVISION CONFERENCE

Hyatt Regency San Antonio, San Antonio, Texas

July 22 – 26, 2007

“Pressure Vessel Technologies for the Power and Process Industries”

PVP-2007 - Join us in San Antonio, Texas, for the 2007 ASME Pressure Vessels and Piping/CREEP8 Conference! More than 150 paper and panel sessions are planned, as well as tutorials, the NDE and Software Demonstration Forums, and the Student Paper Competition. The PVP Conference is a great place to present your ideas and to meet colleagues as we work to create and advance PVP technologies for the Power and Process Industries. PVP-2007 will be held jointly with The Eighth International Conference on Creep and Fatigue at Elevated Temperature - CREEP8. The ASME Pressure Vessels and Piping Division will sponsor this Joint Conference with participation by the ASME NDE Division.

This **CALL FOR PAPERS** provides guidance for submitting abstracts for proposed technical papers for the 2007 ASME PVPD Conference based on general topics. Specific Calls for Papers are available from the Technical Committees at the ASME PVPD conference web site at <http://www.asmeconferences.org/PVP07/>. The conference roster is available on this web site including contact information for the Technical Committee Program Representatives. All accepted papers will be published via CD-ROM/DVD.

GENERAL TOPICS: (1) Codes & Standards; (2) Computer Technology; (3) Design & Analysis; (4) Fluid-Structure Interaction; (5) High Pressure Technology; (6) Materials & Fabrication; (7) Operations, Applications, & Components; (8) Seismic Engineering; (9) Nondestructive Examination; (10) Creep and Fatigue at Elevated Temperature, and (11) Student Paper Competition.

SCHEDULE: Abstracts are due by **December 4, 2006**. Authors will be notified of abstract acceptance by **January 8, 2007**. Draft papers are due by **February 19, 2007**. Paper peer review comments will be returned by **March 26, 2007**. Final reviewed papers in ASME format for publication and the 1903 Copyright Transfer Form for each paper must be received by **April 16, 2007**.

CONFERENCE INFORMATION: Conference, publication, and PVP Division information will be available at the ASME PVPD web sites at www.asmeconferences.org/PVP07/ and/or <http://divisions.asme.org/pvp/>.

ABSTRACT AND PAPER SUBMITTAL: AUTHORS should submit a 200-word abstract with the contact author's complete affiliation, to the appropriate technical committee track/topic at <http://www.asmeconferences.org/PVP07/>. The draft paper, peer reviews and final paper are also to be submitted to the web site in accordance with the deadline schedule.

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CREEP8 Conference Chair

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PVP DIVISION TECHNICAL COMMITTEE NEWS

Codes and Standards Technical Committee



Mahendra D. Rana

The C&S Committee provides a forum for the presentation and publication of technical information on pertinent topics relating to the Codes and Standards for pressure vessels and piping. 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.

Preparation is underway for the PVP-2006. Dr. Gora Chakrabarti is the Technical Program Representative of the C&S Committee. A total of 16 paper sessions and 4 panel sessions has been planned. The following is a listing of the major categories of the paper and panel sessions sponsored by the C&S Committee:

- Fatigue Assessment in Pressure Vessel Design
- Environmental Fatigue Initiation and Crack Growth
- Structural Integrity of Pressure Components
- New Developments in Codes and Standards
- Overview of Section XI Activities
- New and Recent Revised Japanese Codes and Standards
- Interaction and Combination of Multiple Flaws
- Tube Integrity of Steam Generators in Nuclear Service
- Fatigue Strength of Welded Joints

Mahendra D. Rana

Chair, Codes & Standards 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 technical challenges ranging from full scale manufacturing simulations to fluid solid interaction modeling and to atomistic modeling 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, and computational algorithms. Discussions and papers addressing the latest developments in linear and non-linear mechanics, material behavior modeling, manufacturing process simulations, smooth particle dynamics, bolted joint technology, and modeling techniques, including all aspects of finite, boundary elements, and meshless methods development, are followed with interest.

During the 2005 PVP in Denver, in addition to sponsoring the Computer Software forum, the CT Committee presented 18 technical sessions. Of these, six technical sessions and one panel discussion 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 developed jointly with the Design and Analysis, Materials and Fabrication, and the Operations, Applications, and Components Committees. The CT Technical Committee wishes to thank Technical Program Representative Greg Morandin of AECL for his work in overseeing the development of these CT sessions.

For PVP-2006 the CT committee will provide sessions addressing all facets and advances within the computer technology and bolted joint fields. In support of this conference, Technical Program Representative Wolf Reinhardt has championed 16 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 CT Technical Committee meeting will be held in conjunction with the PVP-2006. The CT Technical Committee is always seeking to increase its active membership and to encourage 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, please contact CT Chair John Martin at 518-395-6755 or via email at jmartin8@nycap.rr.com.

John A. Martin

Chair, Computer Technology Committee

Design and Analysis Technical Committee



Dennis K. Williams

The Design and Analysis Technical Committee met on July 18, 2005 in the Imperial Ballroom 1 of the Grand Hyatt Hotel in Denver, CO from approximately 12:15 pm to 1:45 pm. Eighteen

members were in attendance and eight prospective members were also in attendance. The officers and subcommittee chairs of the D&A Committee for 2005 - 2006 are:

Chairman: Dr. Dennis K. Williams;
Vice Chairman: Dr. Kenneth K. Yoon;
Secretary: Mr. James F. McCabe;
Honors Chair: Mr. Dennis H. Martens;
Publications Chair: Dr. William J. Koves;
Prof. Development Ch.: Mr. Ravi Baliga;
International Coordination: Dr. M. Y. A. Younan.

The D&A Committee is pleased to announce the election of five new members, including, Brian Hall, M. Megahed, S. Morrison, A. Segal, and J. M. Stephan. At least three new prospective members will be considered for membership at the upcoming PVP-2006 conference.

Mr. Mike Porter was the TPR for PVP-2005. There were a total of 19 sessions with approximately 64 papers and associated presentations. D. Williams, C. Becht, and Trevor Seipp conducted the tutorial entitled, "Buckling & Instability Considerations: A Look at Pressure Vessels & Bellows."

The D&A Technical Committee is concerned with the development and application of design and

Technical Committee News

(Continued from page 5)

analysis methods required for the pressure vessel and piping industry. It provides a forum for engineers to advance new theories and to maintain an awareness of the latest developments in design and analysis techniques. The D&A Committee will conduct in excess of 25 technical sessions for the upcoming 2006 PVP Conference to be held in Vancouver, BC. The Committee welcomes anyone interested in joining and participating in the activities of the D&A Committee to contact Dennis K. Williams (704-847-2482) or DennisKW@sharoden.com.

Dennis K. Williams
Chair, Design & Analysis Committee

Fluid-Structure Interaction Technical Committee



Wing Lau Cheng

The FSI Technical Committee consists of a team of enthusiastic and dedicated scientific and engineering professionals who promote technology and application of the dynamics of fluid-structure interactions related to the design and operation of pressure vessels, piping systems, components, equipment and machinery. Emphasis is placed on the fundamentals and engineering aspects of fluid dynamics, structural dynamics, flow-induced vibrations, fluid-structure interactions, media-solid interactions, multi-physics and multi-scale problems, extreme loading conditions, thermal-hydraulic loading, sloshing, thermal transients, shock and wave propagation, explosive detonation and explosive-structure interactions.

A strong twenty-eight plus active members from US and International Science and Engineering Community are organizing activities around classical and new technology by the following task groups: TG1 – Flow-Induced Vibration and Noise (Group Leader: M.K. AuYang) TG2 – Fluid-Solid and Media-Structure Interactions (Group Leader: V.V. Kudriavtsev) TG3 – Shock & Wave Propagation (Group Leader: S. Itoh) TG4 – Fluid Dynamics/Transient Thermal

Hydraulics (Group Leader: F. Moody)
TG5 – Dynamic Systems
(Group Leader: To be filled)
TG6 – Multiphysics
(Group Leader: Mojtaba Moatamedi)

The committee is currently looking for new members to fill a couple officer positions and to help promote FSI technology. Those interested in participating are cordially invited to attend the annual FSI Technical Committee meeting during the 2006 PVP Conference.

The FSI Technical Committee appreciated all the hard work the TPR (Dr. Jong Chull Jo), members, task group leaders and officers had put into organizing technical sessions for the PVP-2005. A total of 102 excellent papers from the US, Europe, Far East and other countries were presented in 26 technical sessions sponsored by 5 International Symposiums. The two workshops in Computational Fluid Dynamics were well attended. Dr. Michael Fischer is the FSI TPR for the PVP-2006. Under his leadership, FSI will have a tremendous program and a good turn-out in the following International Symposia:

10th International Symposium on Emerging Technology in Fluids, Structures and Fluid-Structure Interactions; organized by Wing Cheng

6th FSI, AE & FIV and N Symposium; organized by Michael Paidoussis

Transient Thermal-Hydraulic Loads in Vessels, Piping, & Components; organized by Fred Moody

Structures to Extreme Loading Conditions; organized by Howard Levene

Fluid-Structure Interactions and Sloshing; organized by Didier Brochard

In addition, two invited lectures titled "Towards a Unified Solution Method for Fluid-Structure Interaction Problems: Progress and Challenges," by Prof. George Papadakis of King's College London, UK, and "Structural Response of Piping to Internal Gas Detonation," by Prof. Joseph Shepherd of California Institute of Technology, USA will be presented. The popular Computational Fluid Dynamics workshops will continue at PVP-2006. This is a great opportunity for technical exchange among engineers, scientists and researchers from academia, institutes, national laboratories, and industry. We look forward to seeing you at PVP-2006.

Wing Lau Cheng
Chair, Fluid-Structure Interaction Committee

High Pressure Technology Technical Committee



Daniel T. Peters

The High Pressure Technology (HPT) Committee held its annual meeting at the 2005 PVP Conference in Denver, Colorado. Membership includes 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 technology 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 2005, the Committee presented three technical sessions. Special thanks goes out to the Technical Program Representative (TPR) Emile Dupré and the individual session.

At PVP 2006, the sessions are "Design and Analysis of High Pressure Systems", "Advancements in High Pressure Equipment", "Fatigue in High Pressure Vessels", and "Impulsively Loaded Vessels". Mike Mann, the 2006 TPR, has done an excellent job planning four technical sessions.

Anyone interested in high-pressure technology activities is welcome to attend the next committee meeting at PVP-2006 in Vancouver and participate.

Daniel T. Peters
Chair, High Pressure Technology Committee

Materials and Fabrication Technical Committee



Poh-Sang Lam

The M&F Committee promotes the development and sharing of technical information related to material development/properties/modeling as well as fabrication technologies for piping, pipelines, components, vessels, and new generation nuclear reactors. The recent efforts are primarily focused on fracture methodology, subcritical crack growth, environmental effects including hydrogen

(Continued on page 7)

Technical Committee News

(Continued from page 6)

and high temperature, fabrication technology, welding and residual stress; which lead to a better understanding of material behaviors, and for the improvement in structural integrity and fitness-for-service of the pressure vessels and piping systems. The M&F Committee has currently five subcommittees: Materials, Fabrication, Fracture, Subcritical Crack Growth, and Fitness-for-Service (for nuclear, petrochemical, alternative energy, and fossil industries).

The committee has grown steadily and stayed current with the latest technologies under the leadership of Sharif Rahman, the out-going Chair of the M&F Technical Committee, from 2001 to 2005. I am honored to succeed his office in July 2005, and will continue the momentum left behind him to serve the committee and all its members. Also since July 2005, Doug Scarth and Noel O'Dowd agreed to serve as the Vice-chair and the Secretary, respectively, of the M&F Committee.

At PVP05, Doug Scarth, M&F TPR, and all topic/session organizers developed 32 sessions that consisted of 29 paper sessions and three panel sessions. A total of 106 papers were published in the first CD-ROM version of the PVP proceedings. Because of the multidisciplinary nature of M&F, four sessions were organized in collaboration with the C&S Committee. For PVP06 (jointly with ICPVT11), this effort is led by Michiel Brongers. Thirty-two technical sessions with 120 papers are being planned.

M&F has large international membership, which is open to individuals with wide variety of disciplines, who are interested in the technical development and R&D activities related to the pressure vessel technology. For more information please contact P. S. Lam at ps.lam@srs.gov or ps.lam@srnl.doe.gov.

Poh-Sang Lam

Chair, Materials & Fabrication Committee

Operations, Applications & Components

Technical Committee



Ronald S. Hafner

The OAC Committee provides a forum for the exchange of information on the various aspects of Operations, Applications, and Components that apply to the Pressure Vessels & Piping Division. The Committee is a dynamic organization, in which new ideas are encouraged, and interdisciplinary activities are welcome.

Each year the Committee sponsors a number of technical sessions in Reliability and Safety; Qualification and Testing, Monitoring and Diagnostics; Toxic Substances; Transportation, Storage, and Disposal of Radioactive Materials; Pumps and Valves; Operations and Maintenance; Piping and Pipe Supports; Plant Life Extension; Pressure Vessels, Heat Exchangers, and Structures; and Codes and Standards.

For PVP-2006, M. H. Sanwarwalla is the Lead-TPR; A. C. Smith is the Co-TPR. The OAC Committee welcomes new ideas, new concepts, and new members. If you would like to join our Committee, or have questions, comments, or suggestions, contact R. S. Hafner at hafner1@lnl.gov.

Ronald S. Hafner

Chair, OAC Committee

Seismic Engineering Technical Committee



Michael E. Nitzel

The Seismic Engineering Technical Committee (SETC) was very active during the 2005 PVP Conference in Denver. Eleven technical sessions that included 41 technical paper presentations were sponsored by the SETC. In keeping with the international interest in seismic issues, technical papers were presented by authors from North America, Japan, Taiwan, China, Greece, Ireland, and mixed groups of international coauthors. During the 2005 PVP Honors and Awards luncheon it was announced that Dr. Abhinav Gupta of North Carolina State University was the winner of

the 2004 Outstanding Seismic Paper award for the paper titled "Recent Developments In The Seismic Analysis Of Multiply Supported Piping Systems." Also during the H&A luncheon, SETC Chair Mike Nitzel was elevated to ASME Fellow membership grade. Other SETC news from the 2005 PVP Conference is that Dr. J. C. Chen has been appointed as the SETC representative for the Professional Development Committee. Also, SETC members have developed three tutorial proposals. Look for these tutorials to be presented at future PVP conferences beginning in 2007.

Mr. D. T. (Tom) Clark is the Seismic Engineering Track Organizer (formerly Technical Program Representative) for the 2006 PVP/ICPVT-11 Conference. The SETC will sponsor 11 paper sessions, one forum session, and cosponsor one additional paper session at this conference. Papers will be presented in topic areas such as Seismic Issues In Europe, seismic structural response, seismic base isolation, linear and nonlinear dynamic response, seismic design of buried piping, seismic damping, seismic testing, new seismic structural components, and seismic evaluation of systems, structures, and components. The SETC is looking forward to active conference participation with an outstanding mix of international authors and representation.

Seismic engineering is a crosscutting discipline that interacts with many other technical specialties. We are 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. We encourage participation in the SETC and the annual ASME Pressure Vessels and Piping conference as an effective way to expand the state of knowledge in seismic engineering.

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 208-526-1008 or via email at Michael.Nitzel@inl.gov.

Michael E. Nitzel
Chair, Seismic Engineering Committee

2005—2006 Pressure Vessels and Piping Division Officers

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