



Pressure Vessels and Piping Division Newsletter

Summer 2002

A Message From the PVP Division Chair



Joseph Sinnappan

The tragic events of September 11th make all of us think of our family first and say "I love you" and "I thank you" every opportunity we get. Even before the tragic 9/11 incidents, we

lost one of our beloved senators, R. Sammataro. His contribution to the ASME PVP Division is widely known. Recently, we lost another PVP Division leader, A. B. Glickstein. Allan was the Design and Analysis Technical Committee Chair 2001-2002. Other PVP Division contributors also recently were lost. Our prayers are with the bereaved families.

In these difficult days, I want to welcome all of our "PVP Family" to come and take part in our Division activities, both technical and social. The often-used phrase "PVP Family" is a tribute to the dedicated long-term service and active participation of many of our members. In addition to the technical exchanges and professional networking, lifelong friendships have developed.

The PVP Division was founded in 1966 with a vision of the needs of the future. The Division has matured to be one of the largest ASME Technical Divisions. Many

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PVP-2002 at Hyatt Regency Vancouver, August 4-8, 2002



Howard H. Chung

The 2002 Pressure Vessels and Piping Conference (PVP-2002) will be held on August 4 through August 8, 2002 in the Hyatt Regency Hotel in magnificently beautiful Vancouver, Canada. The ASME

Pressure Vessels and Piping Division is sponsoring this Conference with co-sponsorships of the Japanese Society of Mechanical Engineers (JSME), the Korean Society of Mechanical Engineers (KSME), and European Engineering organizations, with participations by the ASME NDE Division and the ASME Pipeline Systems Subdivision. More than 700 people from over 20 countries are expected to attend the Conference.

This year's Conference technical program contains over 150 technical sessions, four major symposia, four tutorials, a student paper competition, as well as NDE and software demo forums. The Conference proceedings will be published in 22 volumes. By virtue of its greater international participation, this Conference will cover the various technical aspects of pressure vessels and piping technology that are being developed all over the world.

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PVP Division Conference Plans Continue into 2005



William J. Bees

A successful 2001 ASME Pressure Vessels and Piping Division Conference was held in the Antebellum City of Atlanta, Georgia at the Hyatt Regency Atlanta from July 22nd through 26th,

2001. The ASME NDE Engineering Division and Section XI participated, along with the other ASME Divisions represented. The Conference's technical program contained about 150 technical sessions, five major symposia, three tutorials, a student paper competition, as well as NDE and software demonstrations, and was attended by more than 700 registrants. The Conference General Chair was J. Sinnappan and the Conference Technical Program Chair was H. H. Chung.

The 2002 ASME Pressure Vessels and Piping Division Conference scheduled for August 4th through 8th, 2002 in Vancouver, British Columbia, Canada will feature more than 130 paper and panel sessions, in addition to tutorials, NDE and software demonstrations, and the Student Paper Competition. The ASME Pressure Vessels and Piping Division is sponsoring

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PVP Division Conference Plans Continue into 2005

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this Conference with the co-sponsorship of the Japanese Society of Mechanical Engineers (JSME) and the Korean Society of Mechanical Engineers (KSME). The ASME NDE Division, the Pipeline Division and the Materials Handling Division, are participating. H. H. Chung is the Conference General Chair and W. J. Bees is the Conference Technical Program Chair.

Planning for the 2003 ASME Pressure Vessels and Piping Division Conference to be held in Cleveland, Ohio at the Renaissance Cleveland Hotel the week of July 20th through 25th, 2003 is underway. This historic hotel on the North coast of Ohio provides a view of the Lake Erie shoreline. This Conference will have the support of the ASME NDE Division, the Pipeline Division, Section XI and the Materials Handling Division. W. J. Bees is the Conference General Chair and I. T. Kisisel is the Conference Technical Program Chair.

The 2004 ASME PVP Division Conference is in the preliminary stages. The Conference General Chair is I. T. Kisisel and the Conference Technical Program Chair is M. K. Au-Yang. The 2005 ASME PVP Division Conference also is in the early stages. The Conference General Chair is M. K. Au-Yang and the Conference Technical Program Chair is J. A. Todd.

William J. Bees
Chair, PVPD Programs

Four Tutorial Sessions Planned for PVP 2002 Vancouver



Ismail T. Kisisel

The objectives of the Tutorial Program include updating experienced engineers and introducing young engineers into specific areas of technology through half-day overview courses. Four topics

have been chosen for the upcoming 2002 PVP Division Conference in Vancouver.

Proposal Writing by V. G. Schultz

When writing a proposal, an important principle to remember is that a proposal is a "sales pitch." Proposal writers must know what is important to the customer and clearly show how the proposed project connects with the customer's desires, goals and requirements.

This tutorial will focus on creating a winning sales pitch in a proposal by researching and understanding your cus-

tomers through a) the customer organization itself, b) the background documents that publish its goals, aims and missions, and c) the solicitation. Discussions will be included on how to use the above information to create the pitch to make your project, your facility, and you, the engineer or researcher, a necessity to the customer.

Examples will be discussed on how to build the sales pitch using:

- Words and Phrases
- Graphics
- "You" Focus (Reader Orientation)
- Description of Personnel and Facilities

The Practice and Pitfalls of Linear FEA by D. Williams, M. Porter, D. Martens

This tutorial will utilize a sample problem composed of a vessel, heat exchanger and associated piping, and will address the pipe/equipment interface definition using multiple types of investigation software and individual areas of evaluation and methodologies, such as:

- Pipe and Components
- Flanges
- Nozzles

Modeling techniques will be discussed for:

- Line Elements, Shell Elements, Plate Elements and Brick (Solid) Elements
- Element Conformation, Patch Test
- Axisymmetric Options
- Expected Inputs
- Constraints
- Expected Outputs
- Convergence

Aspects of verification, failure criteria, and code compliance will be presented. Tutorial leaders will cite references for the subjects covered to provide additional information.

Behavior of Structures at High Temperatures by A. R. S. Ponter

This tutorial will emphasize the unique aspects of the behavior of materials and structures for high temperature applications.

Material Behavior — Types of creep behavior; dependence on temperature, load and material will be presented. Modes of failure, excessive deformation, creep rupture, creep/fatigue interaction, creep crack propagation will be discussed.

Typical Creep Design Problems — A tube plate problem and a gas turbine problem will be discussed, including histories of load and temperature, and critical design/life assessment issues.

Creep Analysis: Material Models — Steady state creep deformation and creep rupture and creep under variable load and temperature, including creep constitutive relationships will be presented.

Creep analysis: Bounding and Related Simplified Methods — Reference and skeletal stress methods for deformation and creep rupture under constant load will be presented. Rapid and slow cycle solutions and reference stress methods, and experimental correlations will be discussed. Design code

and life assessment rules, and rules for severe thermal loading will be discussed.

Recent developments in Direct Methods (Design by Analysis) — GLOSS, Elastic Compensation and the Linear Matching Method will be discussed along with an example problem analyzed according to the R5 general procedure, but using the Linear Matching Method.

Shock Spectrum - Application to Shock and Seismic Analysis by R. Scavuzzo

Topics of this tutorial will include the differences between static G approaches and dynamic analyses, definitions of a shock spectrum, units and their physical significance. Tripartite spectrum plots of shock spectra and the significance of limiting displacement and acceleration values will be discussed. Spectrum responses from some classical impulse shapes and their significance to real motions will be presented.

The difference between design spectra and calculated spectra from typical earthquake and shock will be presented. Experimental and analytical studies of the "spectrum dip" phenomena will be discussed.

Applications of the shock spectra to multi-mass systems will be developed using normal mode theory. The concept of a modal mass will be presented and applications to design spectra inputs explained.

Ismail T. Kisisel
Chair, PVPD Professional Development

PVP-2002

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The Conference opening will be announced by the President of the ASME, Ms. Susan H. Skemp on Monday, August 5, 2002, followed by plenary addresses by Dr. Maeng-Hyun Yoon, the President of the Korea Electric Power Research Institute and Dr. Philip H. Francis, the President of Group Francis, LLC. Dr. Yoon's topic will be on "Status and Prospects of the LWR project in Korea" and Dr. Francis will speak on "Creating Killer Products — A Process for Outperforming your Competitors".

There will be social events to complement the technical program, including the Conference Celebration Music Concert featuring renowned violinist Eugenia Alikhanova and pianist Myung-Hee Chung, the Conference-Wide Reception, and a series of group activities consisting of the Vancouver City Tour, the Vancouver North Shore Tour, and the International Fireworks Cruise in the magnificent Vancouver Harbor.

The Conference Committee of the 2002 ASME Pressure Vessels and Piping Conference would like to invite you to participate in this great event in Vancouver, British Columbia, Canada.

Howard H. Chung
PVP-2002 General Conference Chair
PVP Division Vice-Chair and Secretary

Jim Cory Joins Executive Committee

James F. Cory, Jr. has been selected to join the PVP Division Executive Committee. Jim will be the Division's Programs Chair.

Jim Cory is the Director of EDS ExperTeam Services at EDS PLM Solutions (formerly SDRC) in Milford, OH. His career spans over 28 years in consulting and management. Jim's work involves development and implementation of software for product data management, CAD, engineering and manufacturing applications. His experience includes shock, seismic and stress analysis.

James F. Cory Jr., P.E. earned a B.S. in Engineering Mechanics from Penn State University, a M.S. in Engineering from the University of Akron and a M.B.A. from Xavier University. Jim has served the ASME PVP Division since 1985 as a member and officer of the Computer Technology Committee. He initiated and developed the Software Forum, which has been an integral component of our annual summer PVP Division Conferences. Jim is a past chair of the CT Committee; and, most recently, has served as the PVP Division Publicity Chair.

PVPD Student Paper Competition News

The 9th Annual Student Paper Competition was held during PVP01 in Atlanta, Georgia; ten student papers were presented. Each student who presented their paper during PVP01 was given a \$600 award along with a certificate for being accepted and competing in the Student Paper Competition. Five additional awards were presented at the Competition: First Place for BS degree student (\$500), First Place for MS degree student (\$500), First Place for Ph.D. degree student (\$500) and two Second Place for Ph.D. degree student (\$300 each).

The First Place BS degree award went to R. P. Abbott, University of California at Berkeley, for the paper "Thick-Liquid Cylindrical Jets for Heavy-Ion Fusion Chambers".

The First Place MS degree award went to E. Hippert Jr., University of Sao Paulo, for the paper "Crack Growth Resistance of a High Strength Pipeline Steel". The First Place Ph.D. degree award went to M. Irfan-ul-Hag, King Fahd University, for the paper "Effect of Temperature on Fatigue Crack Growth in CPVC".

The two Second Place Ph.D. degree awards went to W. Brown, Ecole Polytechnique, for the paper "Determination

of Gasket Stress Levels During High Temperature Flange Operation"; and M. Muscat, University of Strathclyde, for the paper "Elastic-Shakedown Analysis of Axisymmetric Nozzles".

Seven student papers have been accepted for the 10th Annual Student Paper Competition to be held during PVP02 in Vancouver, Canada.

The 11th Annual Student Paper Competition will be held during PVP03 Cleveland, Ohio. To submit a paper, contact Dr. A. G. Ware at pvjack@aol.com.

T. H. Liu, Chair

PVP Student Paper Competition Committee



Front From Left: Dr. T. H. Liu, T. Leger, B. N. Rao, S. Fukuzumi, J. Chen

Rear From Left: W. Brown, R. Abbott, M. Irfan-ul-Hag, A. Bhavnani, M. Muscat, E. Hippert



R. P. Abbott and Dr. T. H. Liu



E. Hippert, Jr. and Dr. T. H. Liu



M. Irfan-ul-Hag and Dr. T. H. Liu

PVP Division Awards Presented at Honors and Awards Luncheon in Atlanta



M. K. Au-Yang

Society and Pressure Vessels and Piping Division awards were presented to more than sixty members and interested parties of the Division at the annual Honors and Awards Luncheon during the 2001 PVP Division Conference in Atlanta, Georgia in July. The awards were to recognize contributions to the Society, the Division, and the PVP industry.

The ASME Dedicated Service Award was presented to G. Hollinger. This Award was presented for long and dedicated voluntary service to the ASME marked by outstanding performance, demonstrated effective leadership, prolonged and committed service, devotion, enthusiasm, and faithfulness. The Board of Governors Award was presented to J. Ware as Chair of the PVP Division 2000-2001. A. Dermenjian, I. Ezekoye and J. Todd were elevated to the membership grade of ASME Fellow, the highest grade that the ASME can bestow upon its members.

At the Division level, the highest award, the ASME Pressure Vessels and Piping Medal, was presented to S. S. Chen. Dr. Chen was, until his retirement, a research engineer at the Argonne National Laboratory, and was widely recognized as the world's leading expert in flow-induced vibration. He is a former Chair of the PVP Division and a member of the PVP Division Senate. The presentation included the medal, a certificate, and an honorarium in recognition of his substantial contributions in the pressure vessel and piping field over many years.

For giving the Plenary speeches, Certificates of Appreciation were presented to: T. Garnett, Director of Engineering, Coca Cola Company, for his Plenary speech "Under Pressure: Innovative Solutions for The World's Best Known Trademarked Pressure Vessel" and to J. L. Chameau, Dean of the College of Engineering, Georgia Institute of Technology, for his speech "Engineering Education — The Liberating Opportunity."

The PVP Division Outstanding Service Award was presented to K. R. Rao. This award was established in 1994 to recognize outstanding voluntary service to the PVP Division.

Certificates of Appreciation were presented to: J. Gordon as the Chair of the Computer Technology Technical Com

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PVP Division Awards Presented at Honors and Awards Luncheon in Atlanta

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mittee from 1997–2001; G. Wilkowski as the Chair of the Materials and Fabrication Technical Committee from 1997–2000; J. Cory as the Publicity Chair from 1997–2001; J. Todd as the Membership Development Chair from 1997–2001; J. Todd for giving the Tutorial in Equipment Condition Monitoring; R. Seshadri and P. Magalamanan for giving the Tutorial in Simplified Inelastic Analysis and Code Perspectives; A. Dowling, P. Budden, J. Sharples and D. Lidbury for giving the Tutorial on Revision 4 of R6 and Related Developments in European Flaw Assessment Methods. Additional Certificates of Appreciation also were given to: S. Fujita for his years of service to the PVP Division and the Seismic Engineering Technical Committee; S. Mirza for serving as an Associate Editor for the Journal of Pressure Vessel Technology from 1999–2001; and D. Williams for organizing the Monday evening Civil War Show at PVP 2001 Atlanta.

In addition, thirteen Certificates of Recognition were presented during the Technical Committee meetings to the Technical Program Representatives of the Technical Committees in the 2001 PVP Division Conference.

The 2000 PVP Division Conference Outstanding Technical Session Award was given to D. Metzger for organizing the technical session "Computational Mechanics", sponsored by the Computer Technology Technical Committee. A total of nine awards were given to authors of outstanding technical papers in specific technical areas presented in the 2000 PVPD Conference. Recipients of the outstanding technical paper awards included: R. Sauve, N. Badie, H. M. Mourad, M. Y. A. Younan, E. Zakarian, A. Basu, J. Xu, G. DeGrassi and N. Chokshi.

The 2000 G.E.O. Widera Literature Award for Outstanding Paper in the Journal of Pressure Vessel Technology went to B. Dyson for his paper, "Use of CDM in Material Modeling and Component Creep Life Prediction." The 2000 Journal of Pressure Vessel Technology Editor's Choice Award was given to R. Brown, G. Buchheim, D. Osage and J. Janelle for their paper, "Fitness for Service Evaluation of Ring Joint Groove Cracking".

M. K. Au-Yang
Chair, PVPD Honors and Awards

PVPD Senate News

The PVP Division Senate consists of all of the past chairs (Ex-Officio) of the Division. The presiding officer is the Senate President. The PVP Senate acts in an advisory capacity to the PVP Division Executive Committee. During the year of 2001–2002, the PVP Senate has accomplished the following important tasks: 1) held the 9th Annual Student Paper Competition at PVP01 in Atlanta; 2) held a PVP Leadership Forum in Atlanta after PVP01; 3) held a PVP Division Retreat Meeting in Scottsdale, AZ; and 4) held two Senate Meetings. The success of this Division is attributed largely to the hard work of many volunteers; but it also can be said that the Executive Committee has been wisely using the vast experiences from the Senate. The Senate officers for the coming 2002–2003 year are A. G. Ware, Senate President and J. Sinnappan, Senate Historian.

T. H. Liu
President, PVPD Senate 2000–2002

PVP Division Membership

The total recorded attendance for the 2001 PVP Division Conference in Atlanta was 727, consisting of 439 ASME Members at all levels (Associate Member, Member, Affiliate and Fellow), 23 Students (20 undergraduate and 3 graduate) and 265 non-ASME members.

The PVP Division Conferences continue to be an international technical forum for information exchange in a wide range of topics related to pressure vessel and piping technologies.

For PVP01, the total number of attendees from the United States was 370, representing 42 states; and the total number of attendees from overseas was 357, representing 38 countries.

There were a total of 37 new ASME membership applications received at the Conference, which represents 14% of the "265 non-ASME member" attendee pool. Since these applicants had paid the full registration fee for the Conference, their first year membership fee was waived. The PVP Division will continue this policy for new members attending the 2002 PVP Division Conference in Vancouver, Canada. The new PVP Division Membership Chair looks forward to seeing you at the Conference.

Artin A. Dermenjian
Chair, PVPD Membership

Report from the Publicity Chair

The ASME Pressure Vessels and Piping Division continues to actively market its offerings to the mechanical engineering professional. The Annual Pressure Vessels and Piping (PVP) Division Conference, a leading conference in providing information on cutting-edge engineering technology on an international scale, continues to draw hundreds of participants each year with topical engineering subjects, tutorials, NDE and engineering software demonstrations, and a highly-regarded and ever-expanding student paper competition as the highlights of the Conference.

This year's PVP Conference in Vancouver promises to be another excellent example of engineers helping engineers, as the PVP Division continues to meet the challenge of being a 21st-century leader in providing up-to-date technical information on pressure vessels and piping technology.

PVP promotional information and pressure vessel and piping topics in Mechanical Engineering Magazine also provide technical information of interest to mechanical engineering professionals worldwide.

One of the five strategic emphases of the ASME is 'Service to its Members.' One of the four goals of this Emphasis is 'Encourage and facilitate membership and participation in ASME International of all who are engaged in mechanical engineering.' The PVP Division is always seeking new members, and continues its active role in recruitment through promotion of its Annual PVP Division Conference. Members should continue to be aggressive in inviting participants to our Division activities. Membership information can be obtained from the PVP Division Membership Chair - Artin A. Dermenjian (Ph/Fax: 312-269-3892/2028 or e-mail: artin.a.dermenjian@sargentlundy.com).

Jim E. Staffiera
Chair, PVPD Publicity

PVP DIVISION TECHNICAL COMMITTEE NEWS

Renewed Emphasis by the Codes and Standards Technical Committee

At the 2001 PVP Division Conference in Atlanta, the new Committee Chair emphasized that the Codes and Standards Committee will focus on papers and panel sessions with a direct bearing on piping and pressure vessel codes and related standards. These should include both design evaluations based on current versions of the Code and work in progress that may eventually find its way into first, a code case and, ultimately, the BPV Code. The eleven paper and three panel sessions organized by the C&S TPR, M. Rana, reflect this renewed emphasis.

D. Jones has organized four sessions on Environmental Fatigue factors with the Materials and Fabrication Technical Committee. These sessions continue efforts to factor environmental effects in calculation of cumulative usage factors in Section III.

Three sessions on the topic of "Plastic Analysis in Pressure Vessel Design" have been organized by A. Kalnin. Beginning with their first editions, Sections III and VIII permit limit load, plastic collapse, fatigue, shakedown, and ratcheting evaluations on plastic basis. The papers in the three sessions focus on design procedures and offer new ideas by which these evaluations can be performed using FEA.

Risk based methods continue to influence the evaluation of design and performance of pressure retaining equipment. A session organized by B. Sims will focus on the use of risk-based design factors versus the more familiar factors of safety. Increased use of Probabilistic Safety Analysis (PSA) by the NRC in the regulation of Nuclear Power Plants has resulted in the ASME, at the request of the NRC, to develop standards for a PSA. The status of this standard is the subject of a panel session organized by R. Schneider.

In addition to the always popular sessions on "What's New in Section XI", being organized by W. Bamford this year, a panel session on "What's New in Section X" will be organized by P. Conlisk for PVP02.

Barry T. Lubin
Chair, Codes & Standards Committee

FSI Committee News

The FSI Committee has a tradition of major contribution to the PVPD Conferences during the past years. The Committee sponsored six symposiums and six special publications with 46 technical sessions (about 200 papers) at the 2001 PVPD Conference held in Atlanta, Georgia.

Five sessions with approximately 100 papers are being prepared for the 2002 PVPD Conference in Vancouver. Dr. S. S. Chen, past FSI Chair and PVP Division Chair, received the PVP Medal at the 2001 PVPD Conference for his contribution to the technical community.

A special issue of the *Journal of Pressure Vessel Technology* titled, "Special Issue on Fluid-Solid Interaction Problems", was published in November 2001. Y. Kwon was the guest editor of the publication. Prof. M. J. Pettigrew was newly appointed as an Associate Technical Editor of the *JPV*.

Young W. Kwon, Chair
Fluid Structure Interaction

High Pressure Technology Technical Committee



Leslie P. Antalffy

The HPT Technical Committee held its annual meeting at the PVP01 Conference in Atlanta, Georgia. Of the 41 current Committee members, 13 members are from Canada, England, Germany, Holland, Ireland and Japan, which reflects the international interest in HP Technology.

The primary thrust of the HPT Committee is to promote and publicize the art and science of high pressure vessel technology. This Committee has provided technical support to the Codes and Standards Division in their efforts to develop new codes for high pressure vessels, systems and components.

We were deeply saddened to hear of the passing away of L. Picqueur in December in his hometown in Belgium. Leo had been involved with the High Pressure Technology Technical Committee for many years and was most active in soliciting the high quality technical papers received from Europe for many of our past PVP Division Conferences. Leo also was the contributing editor of our yearly High Pressure Technology Publication on numerous occasions. Most recently, Leo participated in HPT's very successful panel session in Atlanta. As the HPT Technical Committee Vice Chair for 2000-2001, Leo was nominated to be the HPT Technical Committee Chair for 2002-2003. Leo will be dearly missed by all of his friends in HPT, leaving a void that will be difficult to fill.

The HPT Technical Committee contributed three technical sessions to the 2001 PVP Division Conference in Atlanta, and a panel session titled "Experiences with and Comparisons of Codes of High

Pressure Vessels in Europe, the Pacific Rim and North America." This session was developed by D. Fryer, who also was the chair of the three technical sessions. Our thanks go to Don and also to the other participants in the panel session, L. Picqueur, B. Sims, A. de Vos and S. Tera-da, who made the panel session such a great success. L. Antalffy received a Certificate of Recognition from the ASME for his service as the HPT Technical Program Representative for 2001.

The development of the High Pressure Technology Sessions for the 2002 PVP Division Conference to be held in Vancouver, British Columbia is proceeding under the direction of R. Dixon, the Technical Program Representative (TPR) for the HPT Technical Committee for 2002. Three sessions in High Pressure Technology are planned for this Conference.

Looking ahead to future Conferences, J. Pfeifer will be the TPR for the 2003 Conference, which will be held in Cleveland, Ohio. We wish Jeff all the best in soliciting high quality papers and developing our 2003 HPT Technical Program.

The paper authored by D. Peters and P. Speranza titled "A Case Study of Cycle Life Calculated Based on Fatigue Life and Fracture Mechanics" was voted to be the best paper in the High Pressure Technology sessions in Atlanta. Additionally, our first session titled "Effects On Autofrettagged Vessels" was considered to be the best HPT session.

The next HPT Technical Committee meeting will be held in conjunction with the 2002 PVP Division Conference in Vancouver. All are welcome to attend and participate. Please check the Conference Final Program for the time and location of the meeting.

Leslie P. Antalffy
Chair, High Pressure Technology Committee

Rahman Takes Helm of Materials and Fabrication Technical Committee



Sharif Rahman

Inherit the chair of the Materials and Fabrication Technical Committee, which has continued to strengthen over the last 6 years under the leadership of our outgoing Chair, G. Wilkowsky. I take this

opportunity to thank Gery for his dedication and foresight in the development and sharing of technical information related to material properties, as well as fabrication technologies for pressure boundary integrity.

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Rahman Takes Helm of Materials & Fabrication

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During the annual meeting of the 2001 PVPD Conference in Atlanta, Georgia, a new M&F Technical Committee Vice-Chair, F. W. Brust, and Secretary, P. S. Lam, were elected for terms beginning in July 2001.

At the 2001 PVP Division Conference, the M&F Technical Committee sponsored 11 technical sessions and 41 papers, published in two conference proceedings. B. Warke, who was the M&F Technical Program Representative (TPR) for the 2001 PVP Division Conference, received a Certificate of Recognition for his diligent efforts. G. Wilkowski received a Certificate of Appreciation for his service as the Chair of the M&F Technical Committee from 1995–2001. J. Todd, a past Chair and current member of the M&F Technical Committee, was elected to the membership grade of ASME Fellow. She received two Certificates of Appreciation, one for her service as the Publicity Chair from 1995–2001 and the other for developing a tutorial on Equipment Condition Monitoring in the 2001 PVP Division Conference. Judy also has become a member of the PVP Division Executive Committee, responsible for the Division Publications.

At the 2002 PVP Division Conference to be held in Vancouver, British Columbia, the M&F Technical Committee will have more than twice the number of sessions than in 2001 due to the active participation of several Committee members. The M&F TPR for the 2002 PVP Division Conference is F. W. (Bud) Brust (Tel: 614-424-5034; E-mail: brust@battelle.org). Because of the multidisciplinary nature of the Committee, several sessions are frequently organized in collaboration with the Codes and Standards, the Computer Technology, and the Design and Analysis Technical Committees. Based on the preliminary assessment held at the annual meeting in July 2001, we are planning about 25 sessions, including 7 joint sessions, for the 2002 PVP Division Conference.

Currently, the M&F Technical Committee is comprised of five subcommittees: Materials, Fabrication, Fracture, Subcritical Crack Growth and Fitness for Service, dealing with different aspects of pressure vessels and piping. Membership in the M&F Technical Committee is open to people interested in fostering technical developments in the areas mentioned above, as well as any other aspects related to materials and fabrication in pressure vessels and piping. For further information about the Committee and future meetings, please contact the M&F Technical Committee Chair, S. Rahman (Tel: 319-335-5679; E-mail: rahman@engineering.uiowa.edu).

Sharif Rahman

Chair, Materials & Fabrication Committee

Design and Analysis Technical Committee

During the fall of 2001, D. K. Williams was appointed Chair of the D&A Committee by the PVPD Executive Committee. The D&A Committee was striving to develop a number of technical sessions for the upcoming 2002 PVP Division Conference, which will be held in Vancouver, BC Canada. For PVP01 in Atlanta, GA, the Design and Analysis (D&A) Technical Committee developed 11 sessions with 43 papers and associated presentations. Topics for the D&A sessions included the design and analysis of pressure vessels, heat exchangers and components; the design and analysis of piping and piping components; fitness for service, life extension, remediation and repair; fatigue and fracture of pressure vessels and piping; and limit load analysis.

All of the D&A papers were combined into a single bound volume, which sold out early in the Conference. D. Martens was the D&A Technical Program Representative for the 2001 PVP Division Conference. D&A's R. Seshadri conducted a successful tutorial entitled, "Simplified Inelastic Analysis and Code Perspectives".

The D&A Committee welcomes the following, unanimously elected new members: Dr. Chakrapani Basavaraju (Bechtel), Dr. Walied A. Moussa (University of Alberta), Dr. Chang-New Chen (National Cheng Kung University, Taiwan).

D&A Technical Program Representatives for future conferences are:

PVP 2002:	James McCabe
IMECE 2002:	Bill Koves
PVP 2003:	Marina Ruggles
IMECE 2003:	Mike Porter
PVP 2004:	Bill Koves
PVP 2005:	Mike Porter

In addition to the D&A Committee's continued work to develop sessions and present papers in the areas of interest noted above, the D&A Committee has proposed a number of tutorials for the PVP Division Professional Development Committee's consideration. The Committee welcomes anyone interested in joining and participating in the activities of the D&A Committee to contact D. K. Williams (704-847-2482 or DennisKW@sharoden.com).

Finally, on a sadder note for the PVP Division, former D&A Chairman Allan B. Glickstein passed away after an extended illness in the latter portion of 2001. Allan was a very dedicated member, and most of all a friend, of the PVPD D&A Committee. Allan's contributions will be recognized in a special 2002 PVP Conference Volume edited by another former D&A Chairman, Artin A. Dermenjian. A scholarship in the name of Allan Glickstein

was created at his alma mater, the University of Connecticut, through a contribution from the ASME Pressure Vessels and Piping Division.

Dennis K. Williams
Chair, Design & Analysis Committee

Seismic Engineering Technical Committee



Kohei Suzuki

The Seismic Engineering Technical Committee is an energetic and international committee of the ASME PVP Division. The SE Committee now has 25 active members from the USA, Canada, Belgium, Taiwan and Japan, including honorary and associate members. The primary purpose of the SE Committee is to enhance and promote the study and application of seismic engineering as related to the design and operation of PVP structures, systems and components.

At the 2001 PVP Division Conference in Atlanta, the SE Committee sponsored 14 sessions, including 3 co-sponsored sessions with the OAC Committee. Session topics covered "High Level Seismic Response of Piping", "Seismic Evaluation of Pressure Vessel Systems, Structures and Components", "Seismic Testing and Analysis Verification", "Seismic Response and Those Interaction Effects", "Innovative Anti-Seismic Technologies and Control with Active and Passive Damping", and "Earthquake Damages of PVP Related Systems Due to Recent Destructive Earthquakes".

The technical sessions for the 2002 PVP Division Conference in Vancouver are being coordinated by Technical Program Representative (TPR), S. Lu (925-422-0318 or lul@llul.gov). L. Geraets (32-2-510-7442 or luc_geraets@compuserve.com) will serve as the International Coordinator for the 2002 PVP Division Conference. About 80 manuscripts have been collected from a variety of countries.

As the Publication Chair and the ASME JPVT Associate Editor, G. Slagis (925-687-8941 or gerryslagis@home.com) is planning the publication of a special issue of the JPVT focusing on recent developments of seismic engineering in PVP technology.

The SE Committee is continuously supporting the general activities of the ASME PVP Division. For information on participating, please contact the Committee Chair.

Kohei Suzuki
Chair, Seismic Engineering Committee

Operations, Applications and Components Technical Committee

The Operations, Applications and Components (OAC) Committee provides a forum for the exchange of technical information on various aspects of components for power plants and other industries. The committee organizes and sponsors technical sessions in reliability and safety studies, transportation of hazardous wastes, plant life extension, toxic substances, design, testing and performance of plant components, and monitoring and diagnostics. OAC is a fluid organization in which new ideas are encouraged and developed, and interdisciplinary activities are welcomed.

For the 2002 Pressure Vessels and Piping Division Conference to be held in Vancouver, BC, Canada (August 4-8), OAC is sponsoring several sessions in the above named technical areas, including valves, pumps, pressure and structural components, rotating equipment, seismic, shock and vibration isolation, risk management and transportation of radioactive materials. For PVP 2003 in Cleveland, Ohio, OAC plans to sponsor sessions in the same general areas. Potential authors are encouraged to contact the OAC Technical Program Representative, Dr. Stephen Hensel. His phone number and address are Dr. Stephen J. Hensel, Bldg. 704-F, Aiken, SC USA 29808-0001, Tel/Fax: (803) 952-3993/(803) 208-1462, E-mail: steve.hensel@srs.gov

Because of its interdisciplinary nature, OAC is open to new membership. If you would like to join the committee, please contact the Committee Chair, Ike Ezekoye, Phone: 412-374-6643, email: ezekoyli@westinghouse.com.

*Ike Ezekoye
Chair, Operations, Applications &
Components Committee*

PVPD Members Contribute at Society Executive Positions

Congratulations and kudos to two PVP Division members for their elections to serve our Society at executive levels.

Dr. Sam Y. Zamrik, a past Division Chair and a founding family member, has been elected to the ASME International Board of Governors. The president of ASME International has assigned Professor Zamrik to the ASME Finance Committee.

Also, Professor Judith A. Todd, a member of the PVPD Executive Committee, was elected to be the ASME Vice-President of Manufacturing. Judy is the Division Publications Chair, and a past Chair of the PVP Division M&F Technical Committee.

Journal of Pressure Vessel Technology (JPVT) News



Sam Y. Zamrik

W. Kwon edited a special issue on "Fluid-Solid Interaction Problems". Under preparation, two new special issues will be devoted to Nondestructive Evaluation and Computer Technology. Due to its international recognition, the organizers of the Gun Tubes Conference, to be held in London on September 11, 2002, have requested that their conference papers be published in the JPVT.

Two *Journal* awards were presented at the Atlanta Conference: the G.E.O. Widera Literature Award was presented to Dr. B. S. Dyson for his manuscript on "Use of CDM in Materials Modeling and Component Creep Life-Prediction", and the *Journal* Editor's Choice Award was presented to R. G. Brown, G. M. Buchheim, D. A. Osage, and J. L. Janelle for their article on "Fitness for Service Evaluation of Ring Joint Groove Cracking".

The Editorial Board welcomes to its ranks Dr. M. J. Pettigrew, representing the Fluid-Structure Interaction Technical Committee, Dr. R. Mohan, representing the Materials and Fabrication Technical Committee, Dr. R. Metzger, representing the Computer Technology Technical Committee, Dr. B. Blyukher, representing the Operations, Applications and Components Technical Committee, and Dr. M. Perl as a member at large.

A large part of the success of the JPVT is attributed to the dedication of its Associate Editors.

*Sam Y. Zamrik
Editor, JPVT*

PVP Division Chair Message

(continued from page 1)

ASME leaders have praised our Division as the Model Technical Division of the ASME. The PVP Division works well not only by advancing the mechanical engineering profession in providing a forum to present, discuss, debate and publish ideas on pressure vessels and piping technology, but also by fostering lifelong family friendships in promoting functions such as cultural events, cruises, dinners, city tours, TV debates and other social functions. Foremost in the activities of the PVP Division is the annual PVP Conference held each July or August. Our Conference is committed to developing an outstanding technical program with participants from around the globe.

I am honored to be the 36th Chair of the PVP Division. As Division Chair, I promise to work with everyone. We may have a difference of opinion on a single issue, but we always make a collective decision in the best interest and mission of the Division, even if the final joint decision is different from our own individual opinion.

The Executive Committee, the Senate and the Technical Committee Chairs are accessible and eager to hear your ideas about carrying our Division forward into the 21st century. Remember that we are all volunteers. What our Division needs most for continued success is the active participation of our members. So, to those PVP Division members who have not yet participated, I urge you to attend our annual conferences, author a paper, develop a session, and attend the Technical Committee meetings until your engineering interests are inspired. Once you start to actively participate with the PVP Division, you will want to continue to be a part of the "PVP Family" tradition.

In closing, I send my greeting to our "PVP Family" and invite all of you to take part in our Division's activities.

*Joseph Sinnappan
Chair, ASME PVP Division*

Obituaries

With deep regrets and great sorrow, we sadly announce that the following PVP Division members have passed away.

*"And may light perpetual
shine upon them"*

Martin D. Bernstein, C&S

H. Donald Fisher, D&A

Allan B. Glickstein, D&A

Shaukat Mirza, D&A

Leo Picqueur, HPT

ASME PVPD Publications



Judith A. Todd

The PVP Division publications include the Journal of Pressure Vessel and Piping Technology (JPVT), peer reviewed conference proceedings, the PVP Division brochure, annual conference announcements, division newsletters and internet web pages, which contain information on forthcoming PVP Division Conferences and Division personnel. The web site can be accessed through the ASME web address www.asme.org/divisions/pvp/

In 2001, four JPVT were issued and 20 PVP volumes (listed below) were published; 19 at the PVP Division Conference in Atlanta and one at the International Mechanical Engineering Congress and Exposition in New York.

For the 2002ASME PVP Division Conference in Vancouver, British Columbia, Canada, 23 peer-reviewed publications will be published. Authors publishing papers in the PVPD Conference Proceedings are encouraged to submit their papers to the archival Journal of Pressure Vessel and Piping Technology.

For more information about the PVPD publications, please contact the PVPD Publications Chair, Prof. Judith A. Todd at jtodd@psu.edu

Judith A. Todd
Chair, PVPD Publications

Publications (2000–2002)

2002 ASME PVP Conference in Vancouver, British Columbia, Canada

- PVP-433 Analysis of Bolted Joints 2002, edited by K. H. Hsu
- PVP-434 Computational Weld Mechanics, Constraint, and Weld Fracture, edited by F. W. Brust
- PVP-435 Thermal-Hydraulic Problems, Sloshing Phenomena and Extreme Loads on Structures, edited by F. Moody
- PVP-436 High Pressure Technology: 2002- Design, Analysis, Applications, and History, edited by R. D. Dixon
- PVP-437 Service Experience and Failure Assessment Applications, edited by P. S. Lam
- PVP-438 New and Emerging Computational Methods: Applications to Fracture, Damage, and Reliability, edited by F. W. Brust
- PVP-439 Pressure Vessel and Piping Codes and Standards 2002, edited by M. Rana
- PVP-440 Design and Analysis of Piping, Vessels, and Components - 2002, edited by A. Dermenjian
- PVP-441 Computational Mechanics: Developments and Applications -2002, edited by N. Badie
- PVP-442 Fitness for Service Evaluations and Non-Linear Analysis - 2002, edited by J. F. McCabe
- PVP-443-1 Fatigue, Fracture and Damage Analysis - 2002 Volume 1, edited by D. Moinereau
- PVP-443-2 Fatigue, Fracture and Damage Analysis - 2002 Volume 2, edited by D. Moinereau
- PVP-444 Selected Topics on Aging Management, Reliability, Safety and License Renewal, edited by F. L. Cho and V. Shah
- PVP-445-1 Seismic Engineering-2002 Volume 1, edited by S. Lu
- PVP-445-2 Seismic Engineering-2002 Volume 2, edited by S. Lu
- PVP-446-1 Emerging Technologies for Fluids, Structures, and Fluid-Structure Interactions-2002 Volume 1, edited by S. Itoh and M. Souli
- PVP-446-2 Emerging Technologies for Fluids, Structures, and Fluid-Structure Interactions-2002 Volume 2, edited by S. M. Fishers
- PVP-447 Piping and Component Analysis and Diagnosis, edited by I. Ezekoye
- PVP-448-1 Computational Technologies for Fluid/Thermal/Chemical Systems with Industrial Applications-2002 Volume 1, edited by C. R. Kleijn and S. Kawano
- PVP-448-2 Computational Technologies for Fluid/Thermal/Chemical Systems with Industrial Applications-2002 Volume 2, edited by S. Kawano and V. V. Kudriavstev
- PVP-449 Transportation, Storage, and Disposal of Radioactive Materials-2002, edited by R. S. Hafner
- PVP-450 NDE 2002, edited by G. Ramirez

PVP 2001 Atlanta, Georgia

- PVP-416 Analysis of Bolted Joints-2001, edited by K. H. Hsu
- PVP-417 Emerging Technologies: Advanced Topics in Computational Mechanics and Risk Assessment, edited by D. R. Metzger
- PVP-418 High Pressure Technology at the Dawn of the New Millennium, edited by Les Antalffy
- PVP-419 Pressure Vessels and Piping, Codes and Standards-2001, edited by M. D. Rana
- PVP-420-1 Flow-Induced Vibrations-2001; Vol. 1, edited by M. J. Pettigrew
- PVP-420-2 Flow-Induced Vibrations-2001; Vol. 2, edited by M. J. Pettigrew
- PVP-421 Thermal Hydraulics, Liquid Sloshing, Extreme Loads, and Structural Response-2001, edited by F.J. Moody

- PVP-422 NRC/ASME Boiler Pressure Vessel Code Section XI Symposium, edited by W. C. Holston
- PVP-423 Fracture and Fitness, edited by D. P. Lidbury
- PVP-424-1 Computational Technologies for Fluid/Thermal/ Chemical Systems with Industrial Applications-2001; Volume I, edited by S. Kawano and V. V. Kudriavstev
- PVP-424-2 Computational Technologies for Fluid/Thermal/ Chemical Systems with Industrial Applications-2001; Volume II, edited by C. R. Kleijn and V. V. Kudriavstev
- PVP-425 Transportation, Storage, and Disposal of Radioactive Materials-2001, edited by R. S. Hafner
- PVP-426 Operations, Applications, and Components-2001, edited by I. Kisisel
- PVP-427 Service Experience, Fabrication, Residual Stresses and Performance, edited by R. W. Warke
- PVP-428-1 Seismic Engineering-2001; Volume 1, edited by G. R. Roussel
- PVP-428-2 Seismic Engineering-2001; Volume 2, edited by G. R. Roussel
- PVP-429 Residual Stress Measurement and General Nondestructive Evaluation, edited by D. E. Bray
- PVP-430 Pressure Vessel and Piping Design and Analysis-2001, edited by D. H. Martens
- PVP-431 Emerging Technologies for Fluids, Structures, and Fluid-Structure Interactions-2001, edited by W. Cheng and A. Holdo

2000 ASME PVP Conference in Seattle, Washington

- PVP Vol. 399 Design and Analysis of Pressure Vessels and Piping
- PVP Vol. 400 Emerging Technologies in Risk Assessment, Computational Mechanics, and Advanced Engineering Topics
- PVP Vol. 401 Fitness for Service, Stress Classification, and Expansion Joint Design
- PVP Vol. 402-1 Seismic Engineering-2000, Volume-1
- PVP Vol. 402-2 Seismic Engineering-2000, Volume-2
- PVP Vol. 403 Severe Accidents and Other Topics in the RPV Design
- PVP Vol. 404 Fatigue, Fracture, and Damage Analysis
- PVP Vol. 405 Analysis of Bolted Joints-2000
- PVP Vol. 406 High Pressure Technology-2000
- PVP Vol. 407 Pressure Vessels and Piping Codes and Standards-2000
- PVP Vol. 408 Transportation, Storage, and Disposal of Radioactive Materials
- PVP Vol. 409 Aging Management, Component and Piping Analysis, Nondestructive Engineering, Monitoring and Diagnostics
- PVP Vol. 410-1 Assessment Methodologies for Preventing Failure-I: Deterministic and Probabilistic Aspects and Weld Residual Stress
- PVP Vol. 410-2 Assessment Methodologies for Preventing Failures-II: Service Experience and Environmental Considerations
- PVP Vol. 411 Service Experience and Fitness-for-Service in Power and Petroleum Processing
- PVP Vol. 412 Applications of Fracture Mechanics in Failure Assessment
- PVP Vol. 413 Understanding and Predicting Material Degradation
- PVP Vol. 414-1 Emerging Technologies in Fluids, Structures, and Fluid/Structures Interactions, Volume-1
- PVP Vol. 414-2 Emerging Technologies in Fluids, Structures, and Fluid/Structures Interactions, Volume-2

2000 International Mechanical Engineering Congress and Exposition

- PVP Vol. 415 Recent Advances in Solids and Structures-2000

Publication Volumes

Papers presented at the 2002 PVP Division Conference will be published in bound volumes as listed on page 8. These publications, other books of interest, Codes and Standards, Transactions, Journals and free literature regarding all ASME publications will be available in the Balmoral Room, located on the third floor. During the Conference, all publications will be sold at the ASME member price. Prepaid orders will be taken for publications that are not available at the Conference. All Conference registrants will receive a coupon for any one of the volumes. A complete set of the volumes covering the 2002 PVP Conference publications may be purchased as a package at a 10% discount. ASME accepts payment in cash (\$US), check (\$US), travelers' check (\$US), VISA, MasterCard, American Express, Diners Club, and Discover (all credit card charges in \$US). Technical papers and bound volumes may be ordered after the Conference by contacting the ASME Order Department, 22 Law Drive, P. O. Box 2300, Fair-

field, NJ 07007-2300 or by calling 1-800-THE-ASME. Payment by check or credit card must accompany your order. California, Georgia, Illinois, and Texas residents must add the appropriate state sales tax, or furnish a tax exemption certificate. Foreign and Canadian checks are not accepted. You also may ship your Conference volumes home or to your office directly from Publication Sales. A shipping booth will be set up for your convenience so you do not have to carry your books home. The Publication Sales area will be open during the following hours:

Sunday, August 4	3:00 p.m. - 6:00 p.m.
Monday, August 5	8:00 a.m. - 4:00 p.m.
Tuesday, August 6	8:00 a.m. - 4:00 p.m.
Wednesday, August 7	8:00 a.m. - 4:00 p.m.
Thursday, August 8	8:00 a.m. - 12:00 p.m.

American Society of Mechanical Engineers

PVP 2003 CALL FOR PAPERS

2003 ASME PRESSURE VESSELS AND PIPING DIVISION CONFERENCE

Renaissance Cleveland Hotel
Cleveland, Ohio U.S.A.

July 20, 2003 to July 24, 2003

PVP 2003 — Join us in Cleveland, Ohio for the 2003 ASME Pressure Vessels and Piping Division Conference! More than 150 paper and panel sessions are planned, as well as tutorials, NDE and Software Demonstrations, and the Student Paper Competition. The PVPD Conference is a great place to present your ideas and to meet colleagues as we look ahead to PVP technology in the 21st Century. The ASME PVP Division will sponsor this Conference with participation by the ASME NDE Division.

This **CALL FOR PAPERS** provides guidance for submitting abstracts for proposed technical papers for the 2002 ASME PVP Division Conference based on general topics.

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; and (10) Student Paper Competition.

SCHEDULE: Abstracts are to be submitted by **September 30, 2002**. Authors will be notified of abstract acceptance by **October 15, 2002**. Draft papers are to be submitted by **November 30, 2002**. Paper peer review comments will be returned by January 31, 2003. Final papers, in ASME format for publication, must be submitted by **March 1, 2003**. All accepted papers will be published in Conference Volumes.

CONFERENCE INFORMATION: Updated Conference and paper publication instructions and information are available on the internet at the ASME Home Page, <http://www.asme.org>.

ABSTRACT SUBMITTAL: Mail, fax, or e-mail a 200-word abstract and the contact author's **complete** affiliation, address, telephone and fax numbers, and e-mail address on the same page as the abstract for each proposed paper to either of the following by **September 30, 2002**:

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