



Pressure Vessels and Piping Division Newsletter

James E. Staffiera, Editor

Spring 2003

Message from the Division Chair



Howard H. Chung

As the Chair of the Pressure Vessels and Piping Division, it is my great honor and privilege to greet all members and report that the Division is in great shape indeed, due to the tireless efforts of

many individuals. Our memberships as of the last calendar year add up to over 6,000. Founded in 1966 with a vision to serve academia and industries, the PVP Division has become one of the largest and most successful divisions in the ASME, with steady growth and high membership retention records.

Organizing annual PVP conferences is one of our most important activities. We have successfully organized PVP-2002 in Vancouver, Canada, with more than 750 attendees from 33 countries and many positive feedbacks on the quality of the technical, as well as the social programs. As such, it is considered as one of the most successful PVP conferences in recent years. Detailed descriptions of these conferences are given elsewhere in this Newsletter.

It was a great honor for me to serve as the Chair of the Conference and, on behalf of the Division, I would like to express our sincere gratitude to the co-sponsorship

organizations: Japanese Society of Mechanical Engineers (JSME), Korean Society of Mechanical Engineers (KSME), and European Engineering Organizations. I also greatly appreciate the contributions of the PVP-2002 Conference Committee members, including Mr. Bill Bees, the Technical Program Chair and the Technical Program Representatives (TPRs) and Coordinators. This annual conference attests to the vigor of the PVP Division and has again attained international recognition as the premier conference on pressure vessel and piping technology.

We have a strong lineup for our future PVP conferences. For PVP-2003, Mr. Bill Bees and Dr. Ismail Kisisel as the Conference Chair and the Technical Program Chair, respectively, have coordinated preparation of what will be another successful PVP conference at the Renaissance Cleveland Hotel July 20-24, 2003. Looking further ahead, we are excited that we will hold the PVP-2004 conference at the Hyatt Regency La Jolla at Aventine in La Jolla, California with joint sponsorship with of the JSME, where Dr. Ismail Kisisel and Dr. M. K. Au-Yang will serve as the Conference Chair and the Technical Program Chair, respectively. A general Call for Papers for PVP-2004 is given elsewhere in this Newsletter. La Jolla is located on the most beautiful Pacific coast, just about 10 miles north of San Diego, California. In fact, we are going back to this area in six years after a very successful PVP-1998 in San Diego. Please also note that PVP-2005 will be held in Denver,

Colorado. It's another great location as we could take an extended summer vacation in the Colorado Rocky Mountains area after or before the conference.

We also have actively participated in the 2002 ASME International Mechanical Engineering Congress and Exposition (IMECE02) in New Orleans, Louisiana as we have done for previous IMECEs for many years. The PVP Division also is planning to have eight sessions at the 2003 ASME International Mechanical Engineering Congress & RD&D Exposition (IMECE03) to be held November 15-21, 2003 in Washington, D.C.

Since 1974, the Division has sponsored the *Journal of Pressure Vessel Technology (JPVT)* as an ASME archival journal on the state of the art of pressure vessel technology and its related fields. The journal has grown with the PVP Division throughout the past 30 years and has become an internationally recognized journal for both quality of its content as well as the breadth of the coverage. On behalf of the Division, I would like to congratulate Dr. Sam Y. Zamrik, the Editor, and the Associate Editors for their contribution to the success of the Journal. I feel confidence the *Journal* will continue to be the leader in technical publications related to pressure vessel technology.

Another important activity is the organization of the tutorials at the PVP conferences and the sponsorship of the ASME short courses in the areas of pressure ves-

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Chair's Message

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sel technology. Dr. Ismail Kisiel, the Professional Development Chair on the Executive Committee has continued the Division's strong support of this activity. Some of the most successful tutorials at the PVP conferences have been expanded to ASME short courses administered by the ASME Continuing Education Institute (CEI).

As we highly value the importance of students and young professionals who will succeed us in the coming years, we have been proactive on promoting research works of students and young professionals. Administered by the Division Senate (comprising of past Division Chairs) the 2002 Student Paper Competition was held during PVP-2002 where twelve student papers were presented and their student authors were awarded with certificates and prizes.

The PVP Division has eight technical committees that address vast technical areas, namely: Materials and Fabrication; Design and Analysis; Codes and Standards; Computer Technology; Fluid-Structure Interaction; High Pressure Technology; Seismic Engineering; and Operations, Applications, and Components. Leaders and members of these committees are the primary contributors who have been making the above-stated Division conferences and journal publication successful.

With the caliber of leaders on the various committees and the participation of so many hard working members it clear that the PVPD will continue to grow and flourish.

Howard H. Chung
Chair, ASME PVP Division

PVP-2003 at Renaissance Hotel, Cleveland, July 20-24, 2003



William J. Bees

the 21st Century. The ASME PVP Division sponsors this Conference with co-sponsorship by the Canadian Society of Mechanical Engineers and participation by the ASME NDE Division. More than 600

people from over 30 countries are expected to be in attendance at the Conference.

The Technical Program contains 136 technical sessions - 111 paper, 16 panel, and 9 tutorial sessions, a student paper competition, as well as NDE and software demo forums. The Conference proceedings will be published in 16 volumes. By virtue of the continuing international participation, the Conference will continue to shape technology in the pressure vessel industry.

As a compliment to the technical program, we have developed a series of social events starting with the Sunday evening music concert, Conference-Wide Reception on Monday evening, Cleveland City Tour on Monday morning, a tour of the Art Museum, Science Museum, and the Botanical Gardens on Tuesday and a trip down memory lane on Wednesday evening to the Western Reserve town of Hale Farm and Homestead in the Cuyahoga National Recreation area, winding up with a trip to Amish Country and Amish Hospitality with lunch in one of their homes on Thursday. See the final program at www.asme.org/divisions/pvp/.

William Bees

PVP-2003 Conference General Chair

PVP-2002 in Vancouver

With the theme of "Leading the Pressure Vessel Technology for Global Prosperity", the 2002 Pressure Vessels and Piping Conference (PVP-2002) was held August 4-8, 2002 at the Hyatt Regency Hotel in Vancouver, Canada. The Conference was organized by the ASME Pressure Vessels and Piping Division with co-sponsorships of the Japanese Society of Mechanical Engineers (JSME), the Korean Society of Mechanical Engineers (KSME), and European Engineering organizations, with participation by the ASME NDE Division and the ASME Pipeline Systems Subdivision. Howard H. Chung was the Conference General Chair and Bill Bees was the Conference Technical Program Chair. On behalf of the co-sponsor organizations, Toshiyuki Sawa, Jong Chull Jo, and Francis Osweiler represented the JSME, the KSME, and European Engineering organizations.



Conference Chair Howard Chung
at the Opening/Plenary Session



'Roast' of Out-Going
Chair Joe Sinnappan

The Conference Opening featured welcomes by the ASME President Susan H. Skemp, PVP Division Chair Joseph Sinnappan, and Don E. Bray, the ASME Materials and Structures Group Vice President. The Opening was followed by plenary

speeches 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 talk was focused on "Status and Prospects of the LWR project in Korea" and Dr. Francis spoke on "Creating Killer Products - A Process for Out-performing your Competitors".



PVPD Senators getting ready for
"Roasting" of Joe Sinnappan

The Conference Technical Program consisted of 154 technical sessions where 604 papers were presented, and four tutorials, a student paper competition, and NDE and Software demo forums were held. The Conference proceedings are published in 22 volumes. More than 750 delegates from over 33 countries registered for the Conference and, with spouses and guests, the total attendance reached over 860. Approximate breakdown of the attendance are North America (38%), Asia (33%), Europe (25%), and the other continents (4%). By virtue of its greater international participation, this Conference covered the various technical aspects of pressure vessels and piping technology and its related fields that are developed all over the world.

Starting with a Sunday evening Music Concert featuring world-renowned violinist Eugenia Alikhanova and pianist Myung-Hee Chung, the Conference Social events included the Conference-Wide Reception on Monday evening at the Hotel's 34th perspective floor overlooking the Vancouver Harbor, Tuesday Vancouver City Tour, Wednesday Majestic Vancouver North Shore Tour, and Vancouver

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PVP-2002

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PVP-2002 Opening/Plenary Session

Harbor Dinner Cruise with Fireworks Festival on Wednesday evening. All these social events nicely complemented the heavy technical programs.

Please refer to other parts of the Newsletter articles for more coverage on the Conference, e.g., Tutorials, Publications, Honors and Awards, Student Paper Competition, and Division Committee reports. Please also note that the PVP-2002 programs are available from the ASME Internet web page; www.asme.org/conf/pvp02/

Howard H. Chung

PVP-2002 General Conference Chair

Five Tutorial Sessions at PVP-2003 in Cleveland



Ismail T. Kisisel

The objectives of the Tutorial Program include updating experienced engineers and introducing engineers into specific areas of technology through overview courses.

Five tutorial sessions

will be presented at PVP-2003 in Cleveland, Ohio. Admission to the tutorials is free for Conference Registrants. The tutorial notes may be purchased at the tutorial sessions.

AN OVERVIEW OF ASME B31.3, THE PROCESS PIPING CODE

Charles Becht IV

The objective of this Tutorial is to provide an overview of ASME B31.3, the Process Piping Code, its organization, scope, and application. The Tutorial covers requirements for materials, design, fabrication, assembly, erection, examination, inspection, and testing of process piping. It provides an overview of the rules for normal and Category D Fluid Service Metallic Piping. It is designed to familiarize the student with the general scope and organization, as well as provide some historical background information and discussion of intent, to better enable the stu-

dent to understand the code rules.

DO'S AND DON'TS IN USING ELASTIC-PLASTIC FINITE ELEMENT ANALYSIS FOR DESIGN BY SECTION III AND SECTION VIII RULES

Arturs Kalnins and Wolf Reinhardt

The tutorial is aimed at designers who encounter cases in their work that are difficult to handle by the design-by-rules approach and who are willing to take the step toward design-by-analysis using FEA. The objective is to show the complete process that starts from the design specification and ends with the gross dimensions of a design that satisfies the requirements of Sections III and VIII for static loading.

The focus will be on the application of elastic-plastic FEA to the design process. Examples will be included that are solved by the two major finite element programs, Abaqus and Ansys. It will be shown what to do and what not to do; what elements to use and what specific elements not to use; what pitfalls to avoid when modeling the geometry, loading, and boundary conditions.

THE ASME HPS SECTION 6000 "HAZARDOUS RELEASE PROTECTION": PROTECTION WORKING WITH PERFORMANCE TO SET A STANDARD FOR RISK-BASED SAFETY OF PRESSURE SYSTEMS

Sam Brown

The ASME HPS Standard Section 6000 is intended to provide the user of this standard with requirements for evaluating hazards and the required protection (mitigation) from failure associated with applicable pressure systems.

This tutorial starts with a brief examination of the history and motivating issues for the development of the ASME HPS Section 6000 and its relationship to Sections 1000 to 5000. This tutorial reviews the seven parts of the ASME HPS Standard Section 6000 with respect to their underlying philosophy and intent, in addition some examples are discussed that illustrate the importance of ASME HPS Section 6000. The seven parts of Section 6000 are:

- Introduction to Hazardous Release Protection (Organization and Use);
- Hazards Identification and Analysis;
- Estimating Magnitude of Hazardous Release;
- Performance Criteria for Personnel, Secondary, and Protective Systems;
- Siting Risk Classification;
- Protective (Mitigation) Systems;
- Protective Systems Documentation.

RISK-BASED MAINTENANCE AND INTEGRITY MANAGEMENT

John A. Farquharson and Randal L. Montgomery

This tutorial will discuss the concept of using risk and reliability management techniques to optimize a facility's mainte-

nance activities. Risk and reliability assessment techniques have been used for over four decades, primarily by unique high-risk industries where safety and reliability are paramount. This tutorial will discuss specific topics that describe practical uses of risk and reliability technologies to assist companies in mainline industries in managing their maintenance operations. Numerous examples will be presented on how companies have lowered maintenance costs and improved reliability through use of these techniques.

The topics covered will be: (1) Basic risk and reliability concepts, (2) Critical asset identification using streamlined risk profiles, (3) Techniques for identifying important failures of critical assets and determining appropriate proactive maintenance strategies needed to, and (4) Importance of maintenance management systems in managing risk. This tutorial provides a basic understanding of risk and reliability needed by facility personnel to understand and apply risk-based decision tools and techniques to maintenance activities.

DESIGN/ENGINEERING ASSESSMENT AND REGULATORY REQUIREMENTS FOR DESIGN DOCUMENTS

Oscar Shirani

Engineering audits of safety related systems and components are common place in power and process industries. This tutorial will cover the development of regulatory requirements of the U.S. Code of Federal Regulations and the ASME / ANSI standards as they relate to the nuclear industry. The tutorial will also cover the approach used to meet these requirements and, in particular, the tutorial will provide guidance on how engineering/design documents/technical specifications should be packaged to meet these requirements. While the nuclear industry is used in the tutorial development, the guidance provided in the tutorial can be applied in any industry.

Ismail T. Kisisel

Chair, Professional Development

PVPD Publications



Judith A. Todd

PVP Division publications include (1) Technical Paper publications, (2) Annual Conference Announcements and Brochures, (3) Division Newsletters, and (4) Division Internet Web pages. Technical papers are published in

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PVPD Publications

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the ASME *Journal of Pressure Vessel Technology* (JPVT), annual PVP Conference symposium volumes, and special publications such as the *Decade of Progress* series.

The high technical quality of these publications is maintained through the peer review process. During 2002, four JPVT were issued, and twenty-three special PVP Division publication volumes were published; 22 volumes at the PVP-2002 Conference in Vancouver, Canada and one volume at the 2002 International Mechanical Engineering Congress and Exposition (IMECE02) in New Orleans, Louisiana, respectively. Details of these publications are listed on page 7 of this Newsletter.

For the 2003 ASME PVP Division Conference in Cleveland, Ohio, more than seventeen special volumes are expected to be published. The Division web pages contain up-to-date information on forthcoming annual PVP Division Conferences and the Division personnel that can be accessed through the ASME Internet address (www.asme.org/divisions/pvp/).

It should be noted that the publication of papers in Conference Proceeding special publications does not preclude authors from submitting their papers to the ASME *Journal of Pressure Vessel Technology*. In fact, the authors who presented their papers at the PVP Conference are strongly encouraged to submit their papers to the Journal editors along with the peer reviews they have received from the Conference session organizers.

Anyone interested in knowing more about the Division publications may contact the PVPD Publications Chair, Judith A. Todd (jtodd@psu.edu).

Judith A. Todd
Chair, PVPD Publications

PVPD Awards Presented at Honors and Awards Luncheon in Vancouver



M. K. Au-Yang

during the 2002 PVPD Conference in Vancouver in August. The awards were to

recognize contributions to the Society, to the Division, and to the PVP industry.

ASME Dedicated Service Awards were presented to Chuck Becht IV and William Koves for their long dedicated voluntary service to the ASME. The Board of Governors Award was presented to Joe Sinnappan as Chair of the PVP Division, 2001-2002. Kam Mokhtarian and Francis Osweiler were elevated to Fellow of ASME—the highest grade that ASME can bestow upon its members.



Alex Marr
2002 PVP Medalist

At the Division level, the highest award, the ASME Pressure Vessels and Piping Medal was presented to Alex Marr. Alex was, until his retirement, an engineer at Southern California Edison and is a former Chair of the Division. The presentation included the medal, a certificate, and an honorarium in recognition of his substantial contributions in the pressure vessels and piping field over many years.

The PVPD Outstanding Service Award was presented to Don Fryer in recognition of his outstanding voluntary service to the PVPD. Certificates of Appreciation were presented to: K. W. Kwon and Barry Lubin as Technical Committee Chairs from 1998-2002; Vivian Schultz, Dennis Williams, Mike Porter, Dennis Martens, Alan Ponter and Rudy Scavuzzo for giving Tutorials during the Conference; John Duke, Greg Hulbert, Ismail Kisisel, Young Kwon, Marina Ruggles and Judy Todd for serving as Associate Editors for the *Journal of Pressure Vessel Technology* from 1996-2002, Rita Liu for giving a special seminar on "Feng Shui and You" to the Conference Spouse Program and to Plenary speakers Maeng-Hyun Yoon, President, Korea Electric Power Research Institute and Philip H. Francis, President, Group Francis, LLC.

Certificates of Recognition were presented to: Dilip Bhavnani, William J. Koves, Dominique Moinereau, F. L. Cho, Ron S. Hafner, Lisle B. Hagler, Katsuhisa Fujita, Chong-Shien Tsai, and Luciano Lazzeri for their dedicated services to the technical committees; and to Navid Badie, James McCabe, Shigeru Itoh, Ricky Dixon, Frederick Brust, Karen McElhancy, Stephen Lu, Randall Lewis and Mike Yoon for serving as the Technical Program Representatives for the 2002 PVPD Conference.

The 2001 PVPD Conference Outstanding Technical Session Award was given to William Holston and Edmund Sullivan for organizing the "First ASME/NRC Symposium on BVP Code XI" sponsored

by NRC and ASME Sec XI. The Outstanding International Session Award went to Satoyuki Kawano, Chris Kleijn and Vladimir Kudriavtsev. Outstanding Technical Paper Awards were given to: D. P. Jones, J. L. Gordon, Michael Fischer, Jennifer Stolz, Klaus Strohmeier, J. Antunes, P. Piteau, D. T. Peters, P. Speranza, Edwin Smith, Douglas A. Scarth, and Budy D. Notohardjono.

The 2001 G.E.O. Widera Literature Award for Outstanding Paper in the *Journal of Pressure Vessel Technology* went to Pingsha Dong for his paper, "Residual Stress Analyses of a Multi-Pass Girth Weld: 3-D Special Shell Versus Axisymmetric Models" and the 2001 *Journal of Pressure Vessel Technology* Editor's Choice Award was given to Wolf D. Reinhardt and Prasad Mangalaramanan for their paper: "Efficient Tubesheet Design Using Repeated Elastic Limit Analysis Technique." Last but not the least, the 2001 winner of the Sammartaro Scholarship was Miss Sophoria Nicole Renchi of Texas, who attends the Georgia Institute of Technology.

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

PVPD Program Chair Report



James F. Cory, Jr.

A successful 2002 ASME Pressure Vessels and Piping Conference was held in Vancouver, British Columbia, Canada, August 4 through 8, 2002. The Japanese Society of Mechanical Engineers

(JSME), Korean Society of Mechanical Engineers (KSME), ASME NDE Division and ASME Pipeline Systems Subdivision attended the conference. The Conference General Chair was Howard H. Chung and the Conference Technical Chair was William J. Bees. The conference attendance was approximately 630 registrants with nearly 170 technical sessions, including 4 tutorials and the NDE and Software Demonstration Forums.

This year the Pressure Vessels & Piping Conference will be held in the Renaissance City of Cleveland, Ohio during July 20 through 24, 2003. More than 150 paper and panel sessions are planned, as well as tutorials, the NDE and Software Forums and Student Paper Competition. The Conference General Chair is William J. Bees and the Conference Technical Chair is Ismail T. Kisisel.

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VPPD Program Chair Report

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The 2004 ASME Pressure Vessels & Piping Conference will be held in San Diego, California during July 25 through 29, at the Hyatt Regency La Jolla at Aventine. The Conference General Chair will be Ismail T. Kisisel and the Technical Program Chair will be M. K. Au-Yang.

Plans also are coming together for the 2005 ASME Pressure Vessels & Piping Conference. The Conference General Chair will be M. K. Au-Yang and the Technical Program Chair will be Judith A. Todd. A Call for Papers will be issued when the city and hotel arrangements have been finalized.

Training sessions for Technical Program Representatives and Session Developers will be held at this year's Conference on Wednesday. All upcoming TPR's and SD's should plan on attending.

*James F. Cory, Jr.
Chair, VPPD Programs*

VPPD Senate Report



A. G. (Jack) Ware



Joseph Sinnappan

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 2002-2003, the PVP Senate has accomplished the following important tasks: 1) held the 10th Annual Student Paper Competition at the PVP-02 Conference in Vancouver;

2) organized the 11th Annual Student Paper Competition in Cleveland; 3) held a PVP Division Retreat Meeting in San Diego; and 4) held its annual Senate Meeting. The Senate officers for 2003-2004 are Joe Sinnappan, Senate President and Howard Chung, Senate Historian.

*A.G. Ware, President
J. Sinnappan, Historian
VPP Division Senate 2002-2003*

Artin Dermenjian Joins the Executive Committee



Artin A. Dermenjian

Mr. Artin Dermenjian has 30 years of experience at increasing levels of responsibility at Sargent & Lundy, LLC in design, analysis and evaluation of nuclear power plant systems and components. Currently, he is the Process Owner for Nuclear Piping Analysis and Mechanical Design. In this position, as a Discipline Manager in the Nuclear Power Technologies Group he is responsible for managing analysis and design activities for twelve major work processes related to nuclear power plant design and modification activities.

In this industrial sector, he has demonstrated leadership through many years of participation in numerous reviews, assessments and evaluations while serving on different technical and professional committees. He has been an active member of the Design and Analysis (D&A) Committee of the ASME Pressure Vessels and Piping Division (VPPD) since 1982. He has served as the D&A Committee Chair for four years (1996-2000), a member of the Executive Committee of ASME Codes and Standards, Operation and Maintenance (O&M) Committee, and a member of the Subgroup on Design of ASME B&PV Section III Code.

Mr. Dermenjian received the Pressure Vessels and Piping Division's Outstanding Service Award at the 2000 PVP Conference in Seattle. He was elected to the grade of "Fellow" in the American Society of Mechanical Engineers in 2001.

Journal of Pressure Vessel Technology News



Sam Y. Zamrik

The PVT Journal, the technical voice of the PVP Division, has continued its series of special publications and due to its International recognition, the organizers of the Gun Tubes Conference held in London on September 11, 2002 has requested that their conference papers be

published in JPVT. A special conference issue will appear in August 2003 under the title "Pressure Vessel Technology Applied to Gun Tubes". In August 2002, another special issue was developed on "Nondestructive Characterization of Structural Materials".

Two Journal awards were presented at the 2002 Atlanta Conference: the "G.E.O. Widera Literature Award" to Bryan S. Dyson for his manuscript on "Use of CDM in Materials Modeling and Component Creep Life-Prediction", and the Journal "Editor's Choice Award" to Robert G. Brown, Gerrit M. Buchheim, David A. Osage, and Jeremy L. Janelle for their article on "Fitness for Service Evaluation of Ring Joint Groove Cracking".

The Editorial Board welcomes to its rank New Associated Editors appointed during this year: Joseph L. Rose - NDE, Dennis K. Williams - D&A, Rudolph J. Scavuzzo - Seismic, Wing L. Cheng - FSI and G. E. Otto Widera, a member at large.

The Journal success is attributed to the dedication of its Associate Editors.

*Sam Y. Zamrik
Editor, JPVT*

PVP Student Paper Competition News



T. H. Liu

The 10th Annual Student Paper Competition was held during the PVP02 Conference in Vancouver, British Columbia, Canada. Seven student papers were presented in the Competition.

Each student who presented his or her paper at the Conference was given a \$600 award along with a certificate for being accepted and competing in the Student Paper Competition. Five additional awards were presented in the Competition: First Place for BS/MS degree student (\$500), First Place for PhD degree student (\$500), Second Place for BS/MS degree student (\$300), and two Second Place for PhD degree students (\$300 each).

The First Place BS/MS degree award went to Nagatoshi Seki, Yokohama University, Japan, for the paper "Application of Surface Crack for Metals Subjected to Fatigue Damage"; the First Place PhD degree award went to Martin Muscat, University of Strathclyde, UK, for the paper "Elastic Shakedown in Pressure Vessel Components under Non-proportional Loading"; the Second Place BS/MS degree award went to Evren Azeloglu,

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PVP Student Paper Competition News

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State University of New York at Stony Brook, USA, for the paper "Determination of the Regional Function of the Heart"; the two Second Place PhD degree awards went to Liping Xue, Marquette University, USA, for her paper "Influence of Pad Reinforcement on the Limit and Burst Pressure of Large Diameter Cylindrical Shell Intersections", and Do-Jun Shim, Sungkyunkwan University, Korea, for the paper "Plastic Limit Solutions for Cracked Pipes Based on 3-D Finite Element Limit Analyses".

Ten student papers have been accepted for the 11th Annual Student Paper Competition, to be held during the PVP-2003 Conference in Cleveland, Ohio. The 12th Annual Student Paper Competition will be held during the PVP-2004 Conference in San Diego, California. To submit a paper, contact Mr. Joseph Sinnappan at sinnappans@aol.com or Dr. Howard H. Chung at hchung@core.com

*T. H. Liu, Chair
Student Paper Competition Committee*



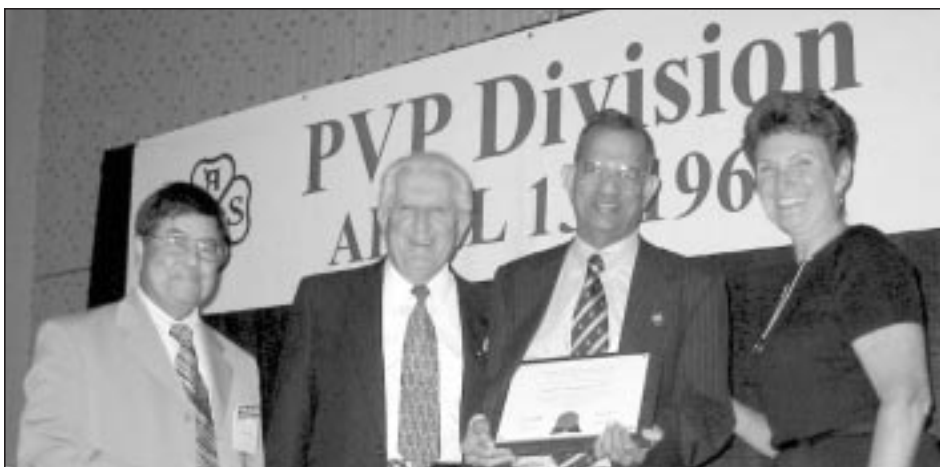
Sunday Evening Music Concert at PVP-2002



ASME President Susan Skemp, Alex Marr, and Sam Zamrik (from right) at PVP-2002



Student Paper Competition Winners



Division Chair Joe Sinnappan (2nd from right) receiving ASME Governor's Award

International Coordination



Luc H. Geraets

ASME is truly international and the PVP Division does quite well in this area. At the last conference in Vancouver, BC, Canada, at least, one-third of the participants came from overseas. As such,

the technical content and the quality of PVP Conference sessions have greatly benefited from the overseas participation. The PVP Division wants to continue promoting international participation, in particular from overseas.

In order to help recognizing, encouraging and promoting multi-national participation, PVP has created the position of International Coordinator who reports to the Executive Committee.

The first initiative approved by the Executive Committee has been the creation of a new award, the "Outstanding International Session Award". This Certificate of Recognition aims at recognizing (and promoting) the development of truly multi-national sessions. The first such award was presented at the last PVP Conference in Vancouver and will be continued at PVP-2003 in Cleveland, Ohio.

Visibility is important also: we suggested the attendants to the Conference-Wide Reception on Monday evening to wear ethnic clothes or cultural garment signifying their respective cultural heritage or their interest, so that the event shows the multi-cultural aspect of the Conference, and countries or regions they are representing. Please do not forget to bring your material with you to Cleveland!

Other initiatives will be developed in the future, and I strongly recommend all members of our PVP family to forward to me (luc.geraets@tractebel.com) their ideas and suggestions!

*Luc H. Geraets
Chair, International Coordination*

PUBLICATIONS (2001-2002)

2002 ASME PVP Conference, Vancouver, BC, 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 443-1/2 Fatigue, Fracture and Damage Analysis - 2002 Volume 1 & 2, edited by D. Moinereau
PVP 444 Selected Topics on Aging Management, Reliability, Safety and License Renewal, edited by F. L. (Bill) Cho and V. Shah
PVP 445-1/2 Seismic Engineering – 2002, Volume 1 & 2, edited by S. Lu
PVP 446-1/2 Emerging Technologies for Fluids, Structures, and Fluid-Structure Interactions – 2002, Volume 1, edited by S. Itoh and M. Souli & Volume 2, edited by S. M. Fishers
PVP 447 Piping and Component Analysis and Diagnosis, edited by I. Ezekoye
PVP 448-1/2 Computational Technologies for Fluid/Thermal/Chemical Systems with Industrial Applications – 2002, Volume 1, edited by C. R. Kleijn and S. Kawano & 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 22 Nondestructive Engineering (NDE) - 2002, edited by G. Ramirez

2002 International Mechanical Engineering Congress & Exposition (IMECE-2002), New Orleans, Louisiana

- PVP-451 Recent Advances in Solids and Structures-2002, edited by Y. W. Kwon and H. H. Chung

2001 ASME PVP Conference, 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-420-1/2 Flow-Induced Vibrations–2001; Vol. 1 & 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-424-1/2 Computational Technologies for Fluid/Thermal/Chemical Systems with Industrial Applications–2001; Volume 1, edited by S. Kawano and V. V. Kudriavstev & Volume 2, 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-428-1/2 Seismic Engineering-2001; Vol. 1 & 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

2001 International Mechanical Engineering Congress & Exposition (IMECE-2001), New York, New York

- PVP-432 Recent Advances in Solids and Structures-2001, edited by H. H. Chung and Y. W. Kwon

News from the Technical Committees

Individuals with interest in activities of any PVP Division Technical Committee, and with willingness to contribute, are invited to participate and join.

The Committee meetings are open to PVP Division members, and guests are encouraged to attend.

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.

The C&S Committee has sponsored technical sessions at PVP-2003 on the following three major categories:

1. *Plastic Analysis in Pressure Vessel Design;*
2. *Environmental Fatigue Issues in the ASME B&PV Code;*
3. *Structural Integrity of Pressure Components.*

In the Plastic Analysis session, seven papers have been included that deal with the application of plastic and limit load analysis to the design for both static and cyclic loadings.

The Environmental Fatigue session has ten papers of contemporary interest. The papers address issues regarding the effects of light water reactor environments on the fatigue life of structural steels used in the construction of nuclear power plants.

Four papers in the Structural Integrity session deal with practical applications of evaluating pressure retaining components using the finite element and other methods.

In addition, a number of panel sessions are organized for lively discussions on the following issues of contemporary interest:

1. *Environmental Fatigue Issues in the ASME B&PV Code;*
2. *What's New in Codes and Standards?*
3. *An Overview of the European Pressure Equipment Directive (97/23/EC);*
4. *EN 13445 – The Harmonized European Pressure Vessel Standard;*
5. *Current and Ongoing Perspectives of ASME Boiler and PV Codes;*
6. *Current and Ongoing Perspectives of ASME Code - Section XI; and*
7. *Post 9-11 Security Issues.*

The technical papers, the panel sessions, and the conference proceeding volume are the result of dedicated efforts of the authors, the reviewers, the session developers, the technical program com-

mittee members, and the ASME staff. All those who took the time and put the effort to contribute to the success of the 2003 PVP Conference are commended for their hard work.

Special thanks go to Dr. Gora Chakrabarti, Technical Program Representative of the 2003 PVP Conference, for his diligent coordination of the C&S sessions.

C&S Committee meetings are open to all interested parties. The next C&S Committee meeting is scheduled to be held during the 2003 PVP Conference in Cleveland, Ohio.

Mahendra D. Rana
Chair, Codes and Standards
Technical Committee

Computer Technology Technical Committee



Don R. Metzger

The Computer Technology (CT) Technical

Committee is concerned with the development and application of computer technology and its use by the pressure vessel and piping industry,

especially with regard to proper documentation and verification. It addresses issues related to hardware, software, algorithms, and emerging computer-related developments that affect analysis, design, and engineering process capabilities. The latest developments in linear and non-linear mechanics, including all aspects of finite- and boundary-element development, are of particular interest.

The Committee presented 13 technical sessions at the 2002 PVP Conference in Vancouver, BC, Canada, including a pair of two-part joint sessions with other technical committees. These sessions were well-developed and received very positive feedback, with good discussion periods and a high level of interest. Sincere thanks go to Technical Program Representative (TPR) Navid Badie for his hard work in overseeing the development of these CT sessions.

For PVP-2003 in Cleveland, Ohio, Co-TPRs John Martin and Wolf Reinhardt have done a great job in arranging sixteen CT sessions, including several 'multi-part' sessions and two panel sessions addressing topics of intense industry interest. The technical sessions include a three-

part joint session on "New and Emerging Computational Methods", a five-part session on "Analysis of Bolted Joints", and a session on "Non-Linear Finite Element Analysis and Emerging Methods". The panel sessions will address "Risk-Based vs. Deterministic Approach" and "Current Fugitive Emissions and Flange Design." With so many pertinent session topics, we have great expectations for a very successful Conference this year.

The next Committee meeting will be held in conjunction with the 2003 PVP Conference in Cleveland, Ohio. The CT Technical Committee has an active membership, but is always looking for individuals with an interest in helping engineers utilize present computer capabilities and keeping them up-to-date with the technology's expanding potential. Anyone with an interest in Computer Technology activities is welcome to attend and participate.

Don R. Metzger
Chair, Computer Technology
Technical Committee

Design and Analysis Technical Committee



Dennis K. Williams

The Design and Analysis (D&A) Technical Committee is concerned with the development and application of design and 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 Technical Committee has an active membership and continues to grow in Conference participation and industry involvement, with important contributions from several international members.

The D&A Technical Committee presented 22 technical sessions at the 2002 PVP Conference in Vancouver, Canada, including several joint sessions with other technical committees. These sessions were well-developed and received very good feedback. In addition, a tutorial session on "Linear Finite-Element Analysis" was also well-attended and favorably received. Sincere thanks go to Technical Program

(continued on page 8)

News from the Technical Committees

(continued from page 7)

Representative (TPR) James McCabe for his hard work in overseeing the development of these many D&A sessions.

The D&A Technical Committee is looking forward to this year's PVP Conference in Cleveland, Ohio. TPR Marina Ruggles has done a fine job in arranging 15 sessions this year, including a panel session with a topic of significant interest, not just to those involved with pressure vessels and piping, but also to those in the power industry. These sessions cover many different aspects of design and analysis, ranging from "Fitness for Service and Life Extension/Life Management" to "Fracture Toughness", "Design and Analysis of Vessels and Components" and "Fracture Analysis" to "Fatigue Assessment" and "Elevated-Temperature Design and Analysis." The panel session on Wednesday morning will address "Generation IV Nuclear Reactors and the Challenges in Pressure Vessel and Piping Materials and Structures." With such a wide variety of interesting and pertinent session topics, we are expecting a high level of participation.

The next D&A Technical Committee meeting will be held in conjunction with the 2003 PVP Conference. Anyone with an interest in design and analysis activities is welcome to attend and participate.

Dennis K. Williams
Chair, Design and Analysis
Technical Committee

Fluid-Structure Interaction Technical Committee



Wing Lau Cheng

The FSI Technical Committee promotes the study and application of the dynamics of fluid-structure interactions as they relate to the design and operation of pressure vessels, piping systems, and components. Emphasis is placed on the fundamentals and engineering aspects of flow-induced vibrations, fluid-structure interactions, wave propagation, and fluid dynamics.

The FSI Technical Committee presented a total of 39 technical sessions with over 200 papers at the 2002 PVP Conference in Vancouver, BC, Canada, including a 19-session Symposium on "Computational Technologies for Fluid/Thermal/Chemical Systems with Industrial Applications." A total of five technical volumes were

published. There were also four joint, multi-part sessions with other technical committees. These sessions were well-developed and received positive response from the participants, with active discussions and a great amount of interest. Sincere thanks go to Technical Program Representative (TPR) Shigeru Itoh for his dedication in overseeing the development of these FSI sessions.

For PVP-2003, TPR Satoyuki Kawano has done an excellent job in arranging 23 sessions, including two international symposiums, several 'multi-part' sessions and a joint, multi-part session with the Seismic Engineering Committee. Eight sessions on Monday will address "Tube Arrays in Cross-Flow", "FSI Advances in Plant Design", and "Thermal-Hydraulic Problems in Vessels, Piping, and Components". Tuesday's eight sessions are "Advances in Damage, Fracture, and Structural Dynamics" and "Fluid-Structure Coupling Analysis". Wednesday sessions include the sessions on "New Applications of Shock Processing" and "FSI Advances in Plant Design". Finally, seven sessions on Thursday will feature a two-part, consecutive, joint session on "Seismic Response of Liquid Storage Tanks," and "Structures under Extreme Loading Conditions." Other technical session topics include "Impact/Fretting Wear", "Flow-Induced Vibration and Wear of Fuel-Rod Bundles", "Vibration, Vortex, Shedding, and Acoustics", "FSI and Sloshing", and "Advances in Explosive-Structure Interactions." With such a wide variety of pertinent session topics, PVP-2003 is sure to be a successful Conference for the FSI Committee.

The next FSI Technical Committee meeting will be held in conjunction with the 2003 PVP Conference. Anyone with an interest in Fluid-Structure Interaction activities is welcome to attend and participate.

Wing Lau Cheng
Chair, Fluid-Structure Interaction
Technical Committee

High Pressure Technology Technical Committee



Leslie P. Antalffy

The High-Pressure Technology (HPT) Technical Committee continues to have a diverse international membership, with active member representation from four continents. The HPT Technical Committee focuses on the research, development, design, and operation of high pressure systems - a technology widely recognized as both an art and

a science. 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.

The HPT Technical Committee presented three technical sessions at the 2002 PVP Conference in Vancouver, BC, Canada, all of which were well-attended and generated a high degree of interest in the technology. Special thanks go to Technical Program Representative (TPR) Ricky D. Dixon for his hard work in developing the PVP-2002 Conference sessions.

For this year's PVP-2003 Conference in Cleveland, Ohio, our TPR Dan Peters has done an excellent job in arranging five sessions, including a panel session with a timely and thought-provoking topic.

There will be two technical sessions on Tuesday presenting the topics of "Advanced Applications in High Pressure Technology" and "New Developments in High Pressure Analysis." The panel session will be on Thursday morning, addressing "Rules Shaping the High Pressure Industry . . . Where the Industry Is and Where It Is Going". Following the panel session there will be two final sessions titled "Advancements in High Pressure Failure Protection Devices, Analysis and Forensics" and "Fatigue".

We are expecting excellent participation in this year's Conference with pertinent and interesting topics such as these generating lively interaction between the presenters and the audience.

The next HPT Technical Committee meeting will be held in conjunction with the 2003 PVP Conference. Anyone with an interest in high-pressure technology activities is welcome to attend and participate.

Leslie P. Antalffy
Chair, High Pressure Technology
Technical Committee

Materials and Fabrication Technical Committee



Sharif Rahman

The Materials and Fabrication (M&F) Committee promotes the development and sharing of technical information related to material properties/development as well as fabrication technologies for pipes, pipe supports, components, and vessels. The material efforts have primarily focused on subcritical crack growth and fracture in recent years. Fabrication efforts have recently been very strong in the welding and residual stress area. The M&F Committee has several subcommittees dealing with different aspects of pres-

sure vessels and piping. The subcommittees are: (1) Materials; (2) Fabrication; (3) Fracture; (4) Subcritical crack growth; and (5) Fitness for service.

In the 2002 PVP conference held in Vancouver, BC, Canada, the M&F Committee sponsored 24 technical sessions (including 11 joint sessions) where over 100 papers were presented and published in three conference proceedings. F. W. (Bud) Brust, who was the M&F Technical Program Representative (TPR) for the 2002 PVP Conference, received a Certificate of Recognition for his diligent efforts. In the 2003 PVP conference to be held in Cleveland, Ohio, the Committee will have about 26 technical sessions (including 8 joint sessions) and 90 papers. The TPR is Dr. Poh-Sang Lam. Because of the multidisciplinary nature of the committee, several sessions are frequently organized in collaboration with the Codes and Standards; Computer Technology; and Design and Analysis committees.

Membership in the M&F Committee is open to people with different disciplines 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. We have a large international participation in the membership and offer a mentoring program for those interested in developing sessions in the future. For further information about the committee and future meetings, please contact the M&F Chair, Sharif Rahman : 319-335-5679; E-mail: rahman@engineering.uiowa.edu.

Sharif Rahman
Chair, Materials and Fabrication
Technical Committee

Operations, Applications and Components Technical Committee



Ike Ezekoye

The Operations, Applications and Components (OAC) Committee provides a forum for exchange of technical information on various aspects of power plant components. The committee

organizes and sponsors technical sessions in reliability and safety studies, transportation of hazardous wastes, plant life extension, aging, toxic substances, design, testing, analysis and performance of plant components (pumps, valves, compressors, heat exchangers, vessels, piping and pipe supports), and monitoring and diagnostics. OAC is a fluid organization in which new ideas are encouraged and

developed and interdisciplinary activities welcome. OAC has several subcommittees dealing with different aspects of pressure vessels and piping. Because of its multidisciplinary nature, OAC is open to people willing to develop new areas.

OAC enjoys good international participation. In general, more than 30 % of the paper sessions are from international contributors. Our committee membership has strong international representation with some of the subcommittees headed by international members.

For the 2003 PVP Conference, OAC organized 18 paper sessions in three conference proceedings. Because of the multidisciplinary nature of the committee, several sessions are organized in collaboration with other committees such as Computer Technology. The paper sessions were developed by volunteers like you who worked tirelessly with authors willing to share their specific knowledge with the engineering community through this committee. For their efforts, the Chair appreciates their contributions and extends a welcoming hand to you to participate in developing future conference sessions. Special thanks go to Steven J. Hansel, OAC Technical Program Representative of the 2003 PVP Conference who coordinated the OAC sessions.

For PVP-2004, the OAC Technical Program Representative is Chris Alexander. He can be reached via phone at (281) 955-2900 or E-mail: chris.alexander@stress.com.

OAC is open to new membership. If you would like to join the Committee, please join us in the next OAC committee meeting during PVP-2003. If you would like to join the Committee, or if you have any suggestions or questions, please contact the OAC Chair Ike Ezekoye via phone (412) 374-6643 or E-mail: ezekeyli@westinghouse.com.

Ike Ezekoye
Chair, Operations, Applications and
Components Technical Committee

Seismic Engineering Technical Committee



Kohei Suzuki

The Seismic Engineering Technical Committee (SETC) of the ASME Pressure Vessels and Piping Division (PVPD) encourages and promotes the development of new theories as well

as application of existing ones in the design and operation of pressure vessels, piping systems, and other components in a broad range of seismic related topics. One of the most effective ways of promot-

ing seismic engineering is to participate in the annual ASME International Pressure Vessels and Piping (PVP) Conferences.

For the 2002 ASME PVP Conference in Vancouver, BC, Canada, a total of 64 excellent technical papers were presented. These papers were contributed as a direct result of continuing interest and cooperation in seismic engineering by authors from North America, Asia and Europe. All of these papers were published in two bound volumes; Seismic Engineering - 2002 (PVP-Vol.445-1&2).

Topics in the volumes covered the relatively broad areas of interest; Seismic Design Criteria, Design Code and Failure Analysis, Large Scale R&D Projects, Seismic Evaluation of PVP Systems, Seismic Structure Response, Innovative Technologies for Seismic Isolation and Vibration Control and Technologies for Seismic Mitigation.

The special forum session on "Appropriate Criteria and Methods for Seismic Design of Nuclear Piping" and the panel session on "Performance Goal Based Seismic Design Philosophy" were successfully organized.

As the SETC Chair, special thanks are due to the 2002 TPR, Stephen C. Lu, the SETC Vice Chair, G. C. Slagis and the Secretary M. E. Nitzel.

My term as the Chair will soon end this coming July 2003. I would like to express my sincere thanks to all Committee members of the PVP Division, especially to those of the Seismic Engineering Technical Committee.

Kohei Suzuki
Chair, Seismic Engineering
Technical Committee



Vancouver Harbor Cruise during PVP-2002



Vancouver Harbor Cruise during PVP-2002



American Society of Mechanical Engineers PVP-2004

CALL FOR PAPERS

2004 ASME Pressure Vessels and Piping Division Conference
Hyatt Regency La Jolla at Aventine
La Jolla, CA, July 25-29, 2004

“Innovative PVP Technologies: Meeting Emerging Challenges Now”

PVP-2004—Join us in San Diego (La Jolla), California, for the 2004 ASME Pressure Vessels and Piping Conference! More than 150 paper and panel sessions are planned, as well as tutorials, NDE and Software demonstrations, and the Student Paper Competition. The PVP Conference is a great place to present your ideas and to meet colleagues as we look ahead to create and innovate PVP technology to meet today’s and tomorrow’s challenges. The ASME Pressure Vessels and Piping Division will sponsor this Conference with co-sponsorship of the Japanese Society of Mechanical Engineers (JSME) and with participation by the ASME NDE Division.

This **CALL FOR PAPERS** provides guidance for submitting abstracts for proposed technical papers for the 2004 ASME PVP Conference based on general topics. Specific Calls for Papers are available from the Technical Committees or on the ASME PVPD web sites at www.asme.org/events/pvp04/ and/or www.asme.org/divisions/pvp/.

GENERAL TOPICS: (1) Codes and 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 due by **September 30, 2003**. Authors will be notified of abstract acceptance by **October 15, 2003**. Draft papers are due by **November 30, 2003**. Paper peer review comments will be returned by **January 31, 2004**. Final papers in ASME format for publication must be received by **March 1, 2004**. 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/divisions/pvp/>.

ABSTRACT SUBMITTAL: Mail, fax, or email a 200-word abstract for each proposed paper with author’s affiliation, mailing address, telephone and fax numbers, and the e-mail address to either of the following PVP Executive Members by **September 30, 2003**:

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