



## Pressure Vessels and Piping Division Newsletter

Gregory M. Hulbert, Editor

Summer 1999

### Message from the Division Chair



T. H. Liu

**A**s I look back over the last ten months, the most often asked question has been, "What does the PVP Division do for me, and/or for my employer?" It is a simple question, however, it requires

a more lengthy answer. I would like to try to answer this question by sharing some of my experiences and views with you.

Professionally, the PVP Division (PVPD) is chartered to provide an organizational forum for practicing engineers interested in promoting state-of-the-art pressure containment technology through annual conferences, conference proceedings, tutorials, and the quarterly published *Journal of Pressure Vessel Technology*. By way of such forums, our technical knowledge can be enhanced, professional views can be discussed, and interests can be stimulated. While we grow professionally via technical exchanges and networking as an individual, such growth can also benefit our employers immensely in whatever profession or industry we are in. These benefits include increased contacts with the leading experts in the field from whom we can obtain professional

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### 1999 ASME Pressure Vessels and Piping Conference



Robert F. Sammataro

**J**oin us in Boston, Massachusetts for the 1999 ASME Pressure Vessel and Piping Conference during August 1-5, 1999. More than 600 individuals from the United States and other countries are

expected to attend. Approximately 160 paper and panel sessions and 500 papers are planned, as well as tutorials, NDE and Software Demonstration Forums, the Student Paper Competition, and a full schedule of Conference and guest/family activities.

Boston is a unique blend of colonial and modern America, and is the gateway to the entire scenic New England area of the Northeastern United States. Visitors can go onboard the U.S.S. Constitution, "Old Ironsides," walk the Freedom Trail, ride the "T," tour the Italian North End, go to a Red Sox baseball game at Fenway Park, enjoy a traditional New England lobster/clambake dinner, and shop from the modern shopping malls in Back Bay to the elegant shops on Newbury Street. All of this and more awaits those who attend PVP99.

The 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 Pressure Vessels and Piping Division will sponsor this Conference with participation by the ASME NDE Division. The Technical Sessions will be held from Monday, August 2, through Thursday, August 5, 1999, comprising approximately 160 technical paper and panel sessions. In addition, four tutorials will also be presented. The Conference Plenary Session will be held on Monday morning, August 2, 1998. Dr. Robert E. Nickell, ASME President, will open the session with a discussion of the goals and initiatives of the ASME. Additionally, a panel chaired by Dr. Richard E. Feigel (United States) and including Dr. Domenic Canonico (United States), Dr. Yasuhide Asada (Japan), and Dr. Francis Osweiler (France) will discuss Globalization of Codes and Standards. The NDE Demonstration Forum will be held on Monday, August 2; on Tuesday, August 3, the Software Demonstration Forum will occur. NDE and Software vendors will have the opportunity to present and discuss their capabilities, equipment, and services. Ms. Carol Berge of Electric Boat Corporation, General Dynamics, will present a special tutorial on "Preparing and Presenting Effective Engineering Presentations." The tutorial is included in the Conference Registration Fee and will be held on Sunday afternoon, August 1.

An extensive array of activities and tours are planned for conference attendees, guests, and families. These will

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# Four Tutorial Sessions Planned for 1999 ASME PVP Conference



A. G. (Jack) Ware

**F**our tutorials will be offered at the 1999 ASME PVP Conference. The first is a special topic *Preparing and Presenting Effective Engineering Presentations*, which is open to all conference attendees.

It is scheduled on Sunday afternoon from 4:00-6:00 p.m., just prior to the Opening Reception, and the day before the conference sessions so that all presenters may attend. The purpose of the tutorial is to assist authors with preparing and delivering oral presentations at this and future conferences. The other three tutorials are on technical topics of current interest, *Common Mistakes And Misconceptions In Flow-Induced Vibration And Fluid-Structure Interaction*, *Micromechanistic Modeling Of Fracture Behavior*, and *Plastic Analysis In Pressure Vessel Design*. The objectives of the Tutorial Program are to update experienced engineers and to introduce young engineers into specific areas of technology in a half-day overview course. Admission is free for conference registrants, so the tutorials present an excellent opportunity for attendees to further their professional development by broadening their education on diverse topics at no additional cost. Notes for each of the technical tutorials may be purchased at the tutorial sessions, and notes from past tutorials can be ordered.

*Preparing and Presenting Effective Engineering Presentations* will be presented by Carol Berge of General Dynamics Electric Boat Corporation, which is sponsoring the tutorial. Anyone who has been called on to stand before an audience knows presenting is not an easy task. But, it can be less difficult if you're confident about your subject, and your ability to communicate it effectively. This two-hour tutorial introduces a format for making effective technical presentations that can be adapted to any topic. The main objective of the course is to give participants core information on designing technical presentations. A handbook containing all information discussed in the course will be given to participants, free of charge, for future reference. This tutorial has been presented to more than 2000 engineers at Electric Boat, on college campuses, and for several technical organizations and societies.

*Common Mistakes And Misconceptions In Flow-Induced Vibration And Fluid-Structure*

*Interaction* will be presented on Monday afternoon by Dr. M. K. Au-Yang, one of the industry's most experienced engineers in practical flow-induced vibration (FIV) and fluid-structure interaction (FSI) problems. He will discuss the most common mistakes and misconceptions made by practicing engineers in his 25 years of experience in the nuclear industry. Topics include:

- a review of the most common FIV problems in 40 years of commercial nuclear power operation
- the added-mass approach to FSI problems and the many apparent paradoxes
- two major problems not unique to FIV and FSI: units and the damping ratio
- fluid-elastic instability: how to account for tube-support clearances
- turbulence-induced vibration: what exactly is the joint acceptance
- impact and fatigue caused by random vibration: the peak amplitude is not three times the rms value
- axial and leakage FIV
- acquiring and interpreting vibration data with today's digital equipment: make sure what you see is real

*Micromechanistic Modeling of Fracture Behavior* will be presented on Tuesday afternoon by a team led by Dr. David Lidbury, and including Andre Pineau, Claudio Ruggieri, and Andrew Sherry. Failure prevention in high integrity components is based primarily upon the avoidance of unstable fracture. Assessments of defect tolerance are usually made by comparing load and resistance terms using standard fracture mechanics procedures. However, for some applications, these procedures may prove unduly conservative or the available plant-specific data and (or) archive material may be very limited. In situations such as these, micromechanistic modeling may provide an alternate, through complementary, route for assessing structural integrity. Micromechanistic modeling techniques have been developed over a number of years to assess the cleavage, ductile, and transition fracture behavior of steels. The techniques are now at a stage of development where they are beginning to be applied to real structural situations as an adjunct to more conventional analyses.

*Plastic Analysis in Pressure Vessel Design* will be presented on Wednesday morning by Professor Arturs Kalnins. The ASME Code's equations cannot be used for the stress analysis of some complex components, because the elastic solution gives primary, secondary, and peak stresses all added together, and there is no clear way to determine the primary stresses. However, the use of limit or plastic analysis may be of advantage. For such cases the Code offers special options, which involve plastic analysis. Although the plasticity option has been in both Sections III and VIII of the ASME Code since 1968, it is

still not widely used. This tutorial will present guidelines by which the advantages of plastic analysis can be achieved. The objective of the guidelines is to explain and demonstrate how the plasticity options work. The guidelines are intended for users who can build a finite element model and obtain an elastic solution. Expertise is not required, only the basic idea. The tutorial will provide examples that show how to change the input to extend an elastic analysis by including plasticity, examine the output, and evaluate whether or not the Code's design requirements are met.

## Message from the Division Chair

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information and advice for our employer and coworkers, and added exposure and recognition for the employer.

Personally, we can volunteer our time and effort to get involved in all aspects of Division affairs. Reviewing papers, developing sessions, chairing sessions, joining committee activities, and organizing conferences are all important tasks to be performed by us volunteers. Such work experience can provide us with an excellent training ground for personal growth in the areas of interpersonal skills, leadership development, and management techniques. One of the most rewarding benefits to me, personally, is that I have found many life-long friends since I have been involved with the PVPD.

I hope I did not take too much of your time to read this so far. You may still have questions which need answers. I want to assure you that all of us from the Executive Committee, the Senate, and the Technical Committees are very eager to hear from you with your ideas and views. We strongly believe that the Division's continued success depends on all of us volunteers to work together as a team. Please come and join our team.

While a very successful joint ASME/JSME PVP conference in San Diego has come and gone, I look forward to an even more successful conference in Boston. I would like to invite you to join us at the conference and experience some of the things I have experienced over the past 15 years. I guarantee that you will not be disappointed.

During my six-year tenure in the Executive Committee, I have had the pleasure to work with a group of outstanding people. They are my mentors, my teachers, my colleagues, and most importantly my friends. I would like to thank each and every one of them for making the past year a true joy! I am looking forward to working with current and future members of the PVPD for many years to come as a member of the PVP senate.

T. H. Liu, Division Chair

## PVPD Conference Planner



William J. Bees

The 1999 Pressure Vessels and Piping Conference will be held in historic Boston Massachusetts from August 1-5, 1999 at the Sheraton Boston Hotel and Towers.

The 2000 ASME Pressure Vessels and Piping Conference will be held at the Westin Hotel in Seattle Washington during July 23-27, 2000. See the Call for Papers in this Newsletter for more information. The Conference General Chair is A.G (Jack) Ware and the Conference Technical Chair is Joe Sinnappan.

The 2001 Pressure Vessels and Piping Conference will be held July 22 - 26, 2001 at Hyatt Regency Atlanta, Atlanta, GA. The Conference General Chairman will be Joseph Sinnappan and the Technical Program Chairman will be Howard Chung.

William J. Bees  
PVPD Program Chair

## PVPD Awards Presented at Honors and Awards Luncheon in San Diego



Joseph Sinnappan

Pressure Vessels and Piping Division awards were presented to 64 PVP members at the annual Honors and Awards Luncheon during the 1998 PVPD Conference in San Diego in July,

1998. The awards were presented to recognize contributions to the Society, to the Division, and to the PVP Industry.

The ASME Pressure Vessels and Piping Medal was presented to Dr. Sumio Yukawa. 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.

Additional Society Awards included the Board of Governors Award presented to William E. Short, II. Mr. Short was rec-

ognized for completing his term as the PVP Division Chair. ASME Fellow grades were presented to Shaukat Mirza, Jwo Pan, Rengaswamy Seshadri, David Kendall and Eduardo H. Perez.

Warren H. Bamford, Jr. received the Pressure Vessels and Piping Division Outstanding Service Award. This award was established in 1994 to recognize outstanding voluntary service to the PVPD marked by outstanding performance, prolonged and committee service, devotion, enthusiasm, and faithfulness. Certificates of Appreciation for outstanding service to the PVPD were awarded to 7 PVP members for their contributions to Pressure Vessels and Piping engineering through research, practice, and for teaching and service. Certificates were awarded to George B. Rawls, Shoen-Sheng Chen, Dennis H. Martens, Howard D. Pouncy, M. K. Au-Yang, Joseph A. Kapp and Evans, C. Goodling, Jr.

The Awards for the Outstanding Conference Session at the 1997 PVPD conference was presented to W. J. O'Donnell for the session entitled "Fracture and Fatigue-Environmental Fatigue II". Mohab A. Shalaby and Maher Y. A. Younan were presented the award for the outstanding paper entitled "Limit Loads for Pipe Elbows with Internal Pressure Under In-Plane Closing Bending Moments". The Robert J. McGrattan Literature Award for the Outstanding Paper in the Journal of Pressure Vessel Technology in 1997 was awarded to L. A. James, H. B. Lee and G. L. Wire for the paper, "The Effect of Water Flow Rate Upon the Environmentally Assisted Cracking Response of a Low-Alloy Steel: Experimental Results Plus Modeling".

29 Certificates of Recognition were awarded at Technical Committee meetings during the conference to recognize outstanding contributions within the PVPD. Recipients were: B. Lubin, K. Suzuki, T. Tahara, N. Cofie, J. F. Cory, D. L. Bagnoli, J. L. Gordon, C. W. Lin, Y. Narita, Y. W. Shin, S. Kubo, D. Bhavnani, Y. W. Kwon, G. M. Hulbert, S. Kaneko, K. H. Hsu, J. A. Kapp, M. B. Ruggles, M. Kawahara, D. Martens, M. Zako, D. P. Lidbury, L. I. Ezekoye, M. Brumovsky, T. Sawa, R. Raj, H. Mehta, P. S. Stanley and H. Akiyama.

Special Recognitions were made for Charles Boyer for Certificate of Acclamation for Excellence in Development of the High Pressure Systems Standard, HPS-1994, for Judith A. Todd for receiving the ASME Board on Minority Women Award and Martin Bernstein for receiving the J. Hall Taylor Award.

The Materials and Structures Group Award, A. O. Schaefer Award was presented to Michael Gold.

Those recognized for being selected to present papers in the Student Paper

Competition were: B. E. Williams, Saint Martin's College, M. S. Reynolds and M. S. Gilbert, Lamar University, F. Bairi, EvryVal d'Essonee University, M. Thothadri, Cornell University, P. Li, Nuclear Power Institute of China, M. Cavak, the University of Akron, Y. Zhao, Louisiana State University, M. A. Al-Hashmi, Sultan Qaboos University and X. Lin, Nanjing University of Chemical Technology. The principal authors of each paper in the Competition received \$500 toward travel expenses and a certificate of Recognition.

Y. Zhao was awarded first place among graduate students and received an additional award of \$500 and the second place award of \$300 was given to M. Thothadri. The first place award of \$500 for undergraduate students was given to B. Williams.

Joseph Sinnappan  
PVPD Honors Chair

### PVPD Internet Home

You can find information about the Pressure Vessels and Piping Division, including conference information, by going to the PVP Home page at [http://www.asme.org/divisions/pvp/index1.htm/pvp\\_home.html](http://www.asme.org/divisions/pvp/index1.htm/pvp_home.html)

### 1999 ASME Pressure Vessels and Piping Conference

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include: Conference Opening Reception (Sunday evening); Trolley Tour of Boston and Cambridge ending at Faneuil Hall Marketplace/ Quincy Market for lunch (Monday morning/ afternoon); Conference Reception (Monday evening); Piano Concert by Myung Hee Chung, an accomplished and world known concert pianist (Monday evening); Bus tour of the historic towns of Marblehead and Salem (Tuesday morning/ afternoon); Conference Social Event - Visit to Charlestown Navy Yard and onboard visit to U.S.S. Constitution, "Old Ironsides," followed by a traditional New England lobster/clambake and dancing at Barretts on the Waterfront (Wednesday evening); Bus tour to John F. Kennedy Library (Thursday morning).

Additional information is available at the Conference Website at <http://www.asme.org/conf/pvp99/>.

Robert F. Sammataro  
General Chair,  
1999 PVPD Conference

# News from the Technical Committees

## Codes and Standards (C&S) Committee

The C&S Committee provides a forum for the presentation and publication of technical information of pertinent topics relating to codes and standards for pressure vessels and piping. As such, it provides a continuing association with Committees associated with ASME Pressure Technology and Nuclear Codes and with domestic and international codes and standards organizations. The ASME Pressure Vessels and Piping Conference is the primary link to communicating this information to the end users.

*K.R. Rao*

*Chair, Codes and Standards Committee*

## Computer Technology (CT) Committee

The CT Committee traditionally provides a focal point for expertise in computer technology. The Committee addresses issues relating to software, hardware, algorithms and emerging computer related developments that affect PVP analysis, design and engineering process capabilities. Modern developments in linear and nonlinear mechanics, including all aspects of finite element and boundary element methods, are of particular interest to this Committee.

*Jerry L. Gordon*

*Chair, Computer Technology Committee*

## Design and Analysis (D&A) Committee

The D&A Committee provides a forum to promote the development and application of design and analysis methods for use by the pressure vessels and piping industry, both in power and/or process plants. Traditional as well as new analysis methods are addressed by the committee in the areas of: pressure vessel integrity assessment, dynamic response of components, systems, and structures (CSS), pipeline dynamics, fluid dynamics, fatigue and fracture, plant life extension, elevated temperature design, condition monitoring of plant components, composite materials, and robust design methods.

*Artin. A. Dermenjian*

*Chair, Design and Analysis Committee*

## Fluid-Structure Interaction (FSI) Committee

The FSI Committee promotes and distributes the knowledge of coupled fluid-structural dynamics, sloshing, thermal-hydraulics, and natural hazards and mitigation. It also covers the more general subject of media interaction dynamics.

At the 1998 PVP conference held in San Diego, California, FSI organized 40 sessions, comprising 176 papers in 5 symposium publications (Young W. Kwon, TRP). For the 1998 IMECE in Anaheim, California, Fred J. Moody organized 3 forum sessions on "Symposium on Unsteady Flow Forum" under the sponsorship of Fluid Engineering Division.

Wing L. Cheng serves as the TPR for the 1999 PVP Conference in Boston, MA. FSI has organized 6 symposiums with 55 sessions. More than 250 papers are expected to be presented at the sessions.

*Young W. Kwon*

*Chair, Fluid-Structure Interaction Committee*

## High Pressure Technology (HPT) Committee

One of the primary thrusts of the HPT Committee is to promote and publicize the art and science of high pressure technology. This committee has provided technical support to the Codes and Standards Division in the efforts to develop new codes for high pressure systems and components. These include the High Pressure Code in B31.3, the High Pressure Systems Code, and the new Division 3 of Section VIII of the ASME BPV Code.

*Eduardo H. Perez*

*Chair, High Pressure Technology Committee*

## Materials and Fabrication (M&F) Committee

The M&F Committee promotes the development and exchange of information on materials and fabrication issues related to pressure vessels and piping. Recently we organized Subcommittees on Materials (non-fracture related topics), Fabrication (welding and other novel fabrication methods), Fracture (applications in thin-walled and thick-walled structures as well as probabilistic fracture mechanics), theoretical topics, Subcritical crack growth (fatigue, creep, corrosion-fatigue, etc), and Fitness for Service (Petrochemical, Nuclear, and Fossil Fuel plant applications). These subcommittees form

the basis of the sessions developed from this committee. The interdisciplinary nature of the committee activities is fostered through close collaboration with the Materials Properties Council (MPC), the ASME Petroleum, Nuclear and Materials Divisions, and joint sessions with other PVP Committees.

*Gery M. Wilkowski*

*Chair, Materials & Fabrication Committee*

## Operations, Applications & Components (OAC) Committee

The OAC Committee activities are devoted to the advancement, dissemination and exchange of knowledge with particular emphasis in operational and application related topics for the pressure vessels and piping industry. Typical U. S. and international participation traditionally includes subjects of reliability and safety, system operations and applications, maintenance, systems and components aging management, plant life extension, monitoring and diagnostics. Topics of toxic, hazardous, and radioactive substance storage and transportation, qualification and testing, pumps and valves, piping and pipe supports, pressure vessels, heat exchangers and structural components are of particular interest to this committee.

The OAC actively collaborates with other technical committees such as FSI, D&A, SE for symposia, conference sessions and publications.

*Ismail T. Kisisel*

*Chair, Operations, Applications and Components Committee*

## Seismic Engineering

The SE Committee provides a forum for discussion of various activities in the PVP seismic arena: definition and characterization of earthquake events, ways to use data in structural design, development of appropriate criteria for seismic adequacy of structures, equipment and components, discussion of advanced analytical methods, structural reliability, probabilistic risk assessment, seismic margin adequacy, sloshing, lifeline engineering and seismic isolation.

The seismic event, being interdisciplinary in nature, engages the Committee to have close interactions and collaborations with the other Committees, with a strong international flavor.

*Luc H. Geraets*

*Chair, Seismic Engineering Committee*

# PVP 2000

## Call for Papers

2000 ASME PRESSURE VESSELS AND PIPING CONFERENCE  
THE WESTIN HOTEL, SEATTLE, WASHINGTON  
JULY 23-27, 2000

**"A CENTURY OF PROGRESS IN PVP TECHNOLOGY"**

**PVP 2000** - Join us in Seattle, Washington for the 2000 ASME Pressure Vessel 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 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 Pressure Vessels and Piping Division will sponsor this Conference with participation by the ASME NDE Division.

**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, 1999**. Authors will be notified of abstract acceptance by **October 15, 1999**. Draft papers are to be submitted by **November 30, 1999**. Paper peer review comments will be returned by January 31, 2000. Final papers for publication must be submitted by **March 1, 2000**. 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/conf/pvp00/index.htm>

**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 any of the contacts listed in this brochure, or to either of the following by **September 30, 1999**:

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## PUBLICATIONS

#### 1997 ASME PVP Conference

PVP-Vol. 344 High Pressure Technology  
PVP-Vol. 345 Seismic Engineering  
PVP-Vol. 346 Fatigue and Fracture: Volume 2  
PVP-Vol. 347 Approximate Methods in the Design and Analysis of Pressure Vessels and Piping Components  
PVP-Vol. 348 Transportation, Storage, and Disposal of Radioactive Materials  
PVP-Vol. 349 Plant Systems/ Components Aging Management  
PVP-Vol. 350 Fatigue and Fracture: Volume 1  
PVP-Vol. 351 Structures Under Extreme Loading Conditions  
PVP-Vol. 352/ NDE-Vol. 16 NDE Performance Demonstration, Planning and Research  
PVP-Vol. 353 Pressure Vessel and Piping Codes and Standards  
PVP-Vol. 354 Current Topics in the Design and Analysis of Pressure Vessels and Piping  
PVP-Vol. 355 Advances in Analytical, Experimental and Computational Technologies in Fluids, Structures, Transients and Natural Hazards  
PVP-Vol. 356 Integrity of Structures and Fluid Systems, Piping and Pipe Supports, and Pumps and Valves  
PVP-Vol. 357 Seismic, Shock and Vibration Isolation  
PVP-Vol. 358 Risk-Informed Decision Making  
PVP-Vol. 359 Fitness For Adverse Environments in Petroleum and Power Equipment

#### 1997 International Mechanical Engineering Congress and Exposition

PVP-Vol. 369 Recent Advances in Solids/Structures and Application of Metallic Materials

#### 1998 ASME/JSME Joint PVP Conference

PVP-Vol. 360 Pressure Vessel and Piping Codes and Standards  
PVP-Vol. 361 Structures Under Extreme Loading Conditions  
PVP-Vol. 362 Severe Accidents and Topics in the NESC Project  
PVP-Vol. 363 Flow-Induced Vibration and Transient Thermal-Hydraulics  
PVP-Vol. 364 Seismic Engineering

PVP-Vol. 365 Fatigue, Fracture, and High Temperature Design Methods in Pressure Vessels and Piping  
PVP-Vol. 366 Technologies in Reactor Safety, Fluid-Structure Interaction, Sloshing and Natural Hazards Engineering  
PVP-Vol. 367 Analysis Of Bolted Joints  
PVP-Vol. 368 Analysis and Design of Composite, Process, and Power Piping and Vessels  
PVP-Vol. 370 Finite Element Applications: Linear, Non-Linear, Optimization and Fatigue and Fracture  
PVP-Vol. 371 High Pressure Technology  
PVP-Vol. 373 Fatigue, Fracture, and Residual Stresses  
PVP-Vol. 374 Fatigue, Environmental Factors, and New Materials  
PVP-Vol. 375 Integrity of Structures and Components; Nondestructive Evaluations  
PVP-Vol. 376 Component Analysis and Evaluation, Aging and Maintenance, and Pipe Supports  
PVP-Vol. 377-1 Computational Technologies for Fluid/Thermal/Structural/ Chemical Systems With Industrial Applications — Volume I  
PVP-Vol. 377-2 Computational Technologies for Fluid/Thermal/Structural/ Chemical Systems With Industrial Applications — Volume II  
PVP-Vol. 378 Risk Assessment Technologies, and Transportation, Storage, and Disposal of Radioactive Materials  
PVP-Vol. 379 Seismic, Shock, and Vibration Isolation  
PVP-Vol. 380 Fitness-for-Service Evaluations in Petroleum and Fossil Power Plants

#### 1998 International Mechanical Engineering Congress and Exposition

PVP-Vol. 381 Recent Advances in Solids and Structures

#### Other Books of Interest

Guidebook for the Design of ASME Section VIII Pressure Vessels  
Power Boilers: A Guide to Section I of the ASME Boiler and Pressure Vessel Code

*NOTE: Above publications are available from ASME. Backlist titles of Proceedings from 1995 and 1996 PVP conferences are also available.*

# 1998–1999 Pressure Vessels and Piping Division Officers

## EXECUTIVE COMMITTEE

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*Plan ahead for 2001.....*

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