



Pressure Vessels and Piping Division Newsletter

Howard H. Chung & Gregory M. Hulbert, Editors

Summer 1998

Message from the Division Chair



William E. Short II
Chairman,
Pressure Vessels and
Piping Division

About one year ago in Philadelphia, volunteerism was presented as though it was a new concept by President Clinton, former President Bush and Colin Powell. While commendable at the time, not much has been publicized about it since.

Certainly, they could have learned considerably about volunteerism from the ASME and, in particular, from the ASME PVP Division.

Our PVP Division serves as an excellent model of effective volunteerism. Through the efforts of our many dedicated members, our PVP Division continues to achieve its purpose to advance the mechanical engineering profession and to provide a forum to present, discuss, debate and publish ideas, theories and applications of topics related to pressure vessels and piping.

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, life-long friendships have developed.

To maintain our strength as an ASME

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1998 ASME/JSME Joint Pressure Vessels and Piping Division Conference



Thou-Han Liu

You are cordially invited to join us at the 1998 ASME/JSME joint Pressure Vessels and Piping Conference at The Sheraton San Diego Hotel and Marina during July 26-30, 1998. The Sheraton is

located near the San Diego International Airport where a free hotel shuttle bus will pick you up right outside the gate. As our conference grows every year, the 1998 conference has committed to be a truly a international event. We are inviting not only our friends from Japan but also our other friends from all over the world to provide a solid technical program, and to share and discuss our new knowledge in the PVP areas of Mechanical Engineering. We indeed feel confident that we will have a very successful conference. Anticipated attendance is over 800 people.

At the conference, we will have strong technical programs which include over 180 sessions on current topics of interest, three tutorials of teaching fundamentals, one software demo and one NDE demo for engineering applications. With our commitment

to the future, we encourage and promote students for student paper competition sessions and the winners will receive financial and other awards from the Pressure Vessels and Piping Division.

With respect to the other conference programs, we will have events including an Opening Reception on Sunday, the Conference-Wide Reception on Monday, the Division Honors Luncheon on Wednesday, and a San Diego Harbor Cruise on Wednesday evening. In addition, we also will offer some selective programs for the accompanying guests of conference registrants.

The Sheraton San Diego is a beautiful hotel near the San Diego airport overlooking the breathtaking view of the famous San Diego Harbor. Be sure to make room reservations early to ensure your stay at the conference hotel. Professor Suzuki, Professor Sawa, Bob Sammataro, Marisa Scalice, and myself are looking forward to seeing you at the conference.

Thou-Han Liu
General Chair - ASME

1998 ASME/JSME Joint PVP Conference

PVPD on the Internet

Information on the PVP Division and annual PVP conferences can be accessed by pointing your internet browser to the ASME home pages <http://www.asme.org>.

Three Tutorials Planned for 1998 ASME/JSME PVPD Conference



A. G. (Jack) Ware

Three one-half day tutorials are planned for the 1998 PVP Conference. Admission will be free to the Conference registrants. Notes for each tutorial may be purchased at the tutorial sessions for \$25 each.

Flow-Induced-Vibration (FIV) problems have been experienced in many fields, including the aerospace, civil engineering, power generation and transmission, pressure vessel, offshore, and undersea technologies. The tutorial on FIV will be conducted by S. S. Chen. In addition to various FIV excitation mechanisms, analytical models, experimental methods, design guides and practical applications to systems and components will be discussed to illustrate diagnostic methods and remedies that can be used to eliminate excessive vibration. A series of video tapes on FIV experiments will be shown to demonstrate different phenomena.

Introduction to Seismic Engineering will be conducted by George Rawls and will provide an overview of seismic engineering. Specific areas that will be addressed in the tutorial include earthquake intensity scales, important factors in earthquake time-history development, dynamic response of components, methods of equipment qualification, and codes and standards that are used for seismic analyses. The course is intended for engineers with little to no background in seismic analysis or as a refresher course for engineers who have not performed seismic analysis for several years.

The tutorial on *Design of Tall Process Vessels* will be conducted by Dennis Martens and Howard Pouncy and will be of particular interest to those in the chemical and petrochemical industries. Design considerations such as wind loading, skirt design, nozzle loads, wind-induced vibration, pipe and platform lugs, auxiliary equipment support (for example a reboiler supported by the tower), field stress relief, and other considerations necessary to completely design an ASME Code Section VIII tall process tower will be presented. The handouts and discussion will include sample calculations to illustrate the methodology

A.G. (Jack) Ware
PVPD Professional Development Chair

Future PVP Conferences



Joseph Sinnappan

The 1999 ASME Pressure Vessels and Piping Conference will be held in Boston, MA from August 1-5, 1999 at the Sheraton Boston Hotel and Towers. Other ASME technical divisions also will participate. The conference's technical program will include more than 140 technical sessions and several tutorials covering Pressure Vessels and Piping Technology. The Conference General Chairman will be Mr. R. F. Sammarato and the Conference Technical Program Chairman will be Dr. J. Ware. See the Call for Papers in this Newsletter for more information about participating in this Conference.

The 2000 ASME Pressure Vessels and Piping Conference will be held July 23-27, 2000 at the Westin Seattle Hotel in Seattle, Washington. The Conference General Chairman will be Dr. J. Ware and the Technical Program Chairman will be Mr. J. Sinnappan.

Joseph Sinnappan
PVPD Programs Chair

PVPD Publications



Howard H. Chung

such as the Decade of Progress series. The high technical quality of these publications is maintained through the peer review process.

During 1997, four JPVT were issued, and 18 special PVP Division publications volumes were published, 16 at the 1997 PVP Conference in Orlando, Florida and 2 at the 1997 International Mechanical Engineering Congress and Exposition in Dallas, Texas, respectively. For the 1998 ASME/JSME Joint PVP Conference in San Diego, California, 21 special volumes will be published. Details of these publications are listed on page 5. Anyone interested in knowing more about the Divisional publications may contact the PVPD Publications Chair.

Howard H. Chung
PVPD Publications Chair

Incoming PVPD Executive Committee Member



William J. Bees

William J. Bees of Babcock & Wilcox is the Incoming Executive Committee Member of the PVP Division and will serve as the new Program Chairman starting in July, 1998. He has been

employed in the the pressure vessel design field for over 33 years and holds patents in the areas of pressure vessel testing. Mr. Bees received B.S. and M.S. degrees in Civil and Structural Engineering from the University of Akron and is a Registered P.E. in Ohio. He has developed a working knowledge of the ASME Boiler and Pressure Vessel Code, Section VIII, Divisions 1, 2, and 3; Section III, Nuclear Vessels as well as SDB-63 Structural Design Basis for Naval Reactor Equipment. Mr. Bees has been an active member of the PVPD Design and Analysis Committee.

Seven PVPD Members Named ASME Fellows

Seven PVPD members were named as ASME Fellows at the Honors and Awards Luncheon during the 1997 PVP Conference in Orlando. They are: Leslie P. Antalffy of Fluor Daniel; F. L. (Bill) Cho of Illinois Dept. of Nuclear Safety; Luc H. Geraets of Tractebel, S. A.; Ronald F. Kulak of Argonne National Laboratory; Michel J. Pettigrew of the Chalk River Laboratories; Gerry C. Slagis of G.C. Slagis Associates; and Gery M. Wilkowski of Battelle.

Judy Todd Received ASME BOMW Award

Prof. Judith A. Todd of Illinois Institute of Technology received the 1997 ASME Board on Minorities and Women Award. The award, consisting of a plaque and a certificate, was presented at the ASME IMECE97 in Dallas, Texas.

Chair's Message

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Division, we must be progressive and dynamic; that is, our Division must consider and implement change to satisfy the interests and needs of our members.

While recently en route to a Division Executive Committee meeting in Houston, I discovered an airline magazine article that proclaimed corporate downsizing has all but disappeared. I was troubled by the misleading inaccuracy of the article. Even with low unemployment levels, there is evidence that corporate downsizing continues to be a threat to our engineering profession. However, given the amount of exposure engineers have had to the potential adverse personal impact from downsizing, it's surprising how ill-prepared most mechanical engineers are for becoming a downsizing fatality.

Mechanical engineers should adopt the Boy Scout motto "Be Prepared". To be marketable, mechanical engineers must maintain their fundamental skills and develop additional diverse skills. If considering private practice or consulting, an engineer should be a registered Professional Engineer. In the USA, many states require a practicing engineer to be a registered P.E. I have heard many complaints from engineers about a general lack of respect for the engineering profession. In this, we are very much our own enemies. Lawyers and medical doctors require certification before they can legally practice; but engineers resist the equivalent status that would evolve by simply requiring all engineers to pass the P.E. examinations before they can practice as engineers. Meanwhile, accept the fact that trash collectors can be "sanitary engineers" and train engine operators can be "engineers", and that the general public recognizes this as at least part of the engineering profession.

Participation at the ASME Pressure Vessels and Piping Conferences provides an opportunity to remain current with the developing technology and to debate general topics, such as P. E. registration. At the PVP Division conferences, an engineer can attend tutorials to hone skills or discover a new area of interest, participate in discussions of papers on a wide range of topics, and network with other engineers and managers.

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, 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.

*William E. Short, II
PVPD Chairman*

PVPD Past Chairman Dr. Gallagher Deceased



The PVPD sadly announces the passing of Dr. Richard Gallagher in September, 1997.

Dr. Gallagher served as the Editor of the JPVT Journal from 1978-1982 and was among the founding

members of the Computer Technology Committee (CT) serving as Chairman from 1975-1977. Dr. Gallagher also was the PVP Division Chairman from 1981-82. His contribution to the Division was in the development of the CT Committee and in promoting and introducing his pioneering work on finite elements and computational mechanics. The ASME recognized his national and international achievement by awarding him its highest honor, an ASME medal in 1993. The PVP Division is sponsoring a scholarship in his memory at Clarkson University.

*Sam Y. Zamrik
PVPD Senate*

1997 PVPD Awards Presented at Honors and Awards Luncheon in Orlando



Robert F. Sammataro

The 1997 Pressure Vessels and Piping Division awards were presented to 51 members at the annual Honors and Awards Luncheon during the 1997 PVP Conference in Orlando

in July, 1997. The awards were to recognize contributions to the ASME, the Division, and the PVP industry.

The ASME Pressure Vessels and Piping Medal was presented to Dr. Robert W. Swindeman of the Lockheed Martin Energy Research Corp., Oak Ridge National

Laboratory. Dr. Swindeman is a past chairman and a member of the Division's Senate. The presentation included the medal, a certificate, and an honorarium in recognition of his substantial contributions in the pressure vessels and piping field.

Additional Society awards included the ASME Dedicated Service Award presented to Dr. Howard H. Chung of Argonne National Laboratory and the Board of Governors Award presented to Dr. Richard C. Gwaltney in recognition of his service as the PVPD Chairman. Francis Osweiler also was announced as the recipient of an ASME Dedicated Service Award. The ASME Dedicated Service Awards were 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.

James F. Cory, Jr. received the PVP Division Outstanding Service Award. This award was established in 1994 to recognize outstanding voluntary service to the PVPD marked by outstanding performance, prolonged and committed service, devotion, enthusiasm, and faithfulness.

Awards for the Outstanding Conference Session at the 1996 PVP Conference were presented to R. W. Warke and P. Dong for the session titled "Welding and Residual Stresses: Measurement" sponsored by the M&F Technical Committee. A. Tooth, J. S. T. Cheung, C. Nadarajan, L. S. Ong, and H. W. Ng were presented the Outstanding Paper Award at the 1996 PVP Conference. Their paper was titled "The Support of Horizontal Vessels Containing High Pressure Fluids - A Design Study." The Robert J. McGrattan Literature Award for



ASME PVP Medal presented to Robert W. Swindeman by the ASME President Keith B. Thayer (l) and PVP Senator Sam Zamrik (r).



The Past Chairman Richard C. Gwaltney being honored at a PVP Division dinner.

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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. Meetings are open to all PVP Division members and guests are encouraged to attend. Membership and meeting information may be obtained from the Committee Chair.

Codes and Standards (C&S) Committee

The C&S Committee provides a forum for the presentation and publication of technical information on 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 for communicating this information to the end user.

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 non-linear mechanics, including all aspects of finite element and boundary element development, 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 1997 International Mechanical Engineering Congress & Exposition (IMECE) in Dallas, FSI sponsored the Fourth International Symposium on FlowInduced Vibration and Noise where over 150 technical papers were presented in 36 sessions. The principal symposium organizer was Professor M. P. Paidoussis, who for the 4th time in the last 12 years, took on this very time consuming task. M. K. AuYang and S. S. Chen of the FSI Committee were both members of the Symposium Committee.

For the 1998 PVP Conference, technical sessions covering flowinduced vibration, fluid-structure interaction and sloshing, transient thermalhydraulics, and structures under extreme loading are being developed.

M. K. AuYang

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 Piping Code in B31.3, the High Pressure Systems Code, and the new Division 3 of Section VIII of the ASME BPV Code, which was issued in May, 1997.

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. A wide variety of topics, ranging

from the development and application of new materials and fabrication methods to life extension of existing vessels and components, is covered. The interdisciplinary nature of the committee activities is fostered through close collaboration with the Materials Properties Council (MPC) and the ASME Petroleum, Nuclear and Materials Divisions.

Gery M. Wilkowski

Chair, Materials and Fabrication Committee

Operations, Applications and 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. U. S. and international participation traditionally concentrates around subjects of reliability and safety, system operations and applications, maintenance, monitoring and diagnostics, toxic hazardous and radioactive substance storage and transportation, qualification and testing, pumps and valves, piping and pipe supports, systems and components aging management, plant life extension, pressure vessels, heat exchangers and structural components.

Ismail T. Kisisel

Chair, Operations, Applications and Components Committee

Seismic Engineering (SE) Committee

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 interaction and collaboration with the other Committees, with a strong international flavour.

Luc H. Geraets

Chair, Seismic Engineering Committee

PVPD Special Volume Publications (1997–1998)

1997 ASME PVP Conference		PVP-364	Seismic Engineering-G. B. Rawls and K. Suzuki
PVP-344	High Pressure Technology-L. Antalffy	PVP-365	Fatigue, Fracture, and High Temperature Design Methods in Pressure Vessels and Piping-K. K. Yoon
PVP-345	Seismic Engineering-G. B. Rawls	PVP-366	Technologies in Reactor Safety, Natural Hazards Engineering, and Fluid-Structure Interaction and Sloshing-S. J. Chang and D. Brochard
PVP-346	Fatigue and Fracture, 1997 (II)-S. Rahman	PVP-367	Analysis of Bolted Joints-K. H. Hsu and T. Sawa
PVP-347	Approximate Methods in the Design and Analysis of Pressure Vessels and Piping Components-W. J. Bees	PVP-368	Analysis and Design of Composite, Process, and Power Piping and Vessels-D. K. Williams
PVP-348	Transportation, Storage and Disposal of Radioactive Materials-R. S. Hafner	PVP-369-1	Codes and Standards; Application of Risk Informed Methods, ASME Code; Present and Future-B. Lubin and T. Tahara
PVP-349	Plant Systems/Components Aging Management-I. T. Kisisel	PVP-369-2	Codes and Standards; Design, Analysis and Performance-B. Lubin and T. Tahara
PVP-350	Fatigue and Fracture, 1997(I)-H. S. Mehta	PVP-370	Finite Element Applications: Linear, Non-linear, Optimaization and Fatigue & Fracture-J. F. Cory, J. L. Gordon, and Y. Narita
PVP-351	Structures Under Extreme Loading Conditions-Y. S. Shin	PVP-371	High Pressure Technology-L. Picquer and M. Kawahara
PVP-352/ NDE-16	NDE Performance Demonstration, Planning and Research-M. M. Behraves	PVP-372	Risk Assessment Technologies, and Transportation, Storage and Disposition of Radioactive Materials-F. Cho and R. S. Hafner
PVP-353	Pressure Vessel and Piping Codes and Standards-T. C. Esselman	PVP-373	Fatigue, Fracture and Residual Stress-S. Rahman
PVP-354	Current Topics in the Design and Analysis of Pressure Vessels and Piping-D. K. Williams	PVP-374	Fatigue, Environmental Factors, and New Materials-H. Mehta
PVP-355	Advances in Analytical, Experimental and Computational Technologies in Fluids, Structures, Transients and Natural Hazards-K. K. Panahi	PVP-375	Fitness-For-Purpose Evaluations in Petroleum and Fossil Power Plants-M. Prager and M. Zako
PVP-356	Integrity of Structures and Fluid Systems. Piping and Pipe Supports, and Pumps and Valves-H. H. Chung	PVP-376	Component Analysis and Evaluation, Aging and Maintenance, and Pipe Supports-L. I. Ezekoye and T. Sawa
PVP-357	Seismic, Shock, and Vibration Isolation-H. H. Chung	PVP-377-1	Computational Technologies for Fluid/Thermal/Chemical Systems with Industrial Applications, Volume 1-V. V. Kudriavtsev and W. L. Cheng
PVP-358	Risk-Informed Decision Making-T. C. Esselman and B. T. Lubin	PVP-377-2	Computational Technologies for Fluid/Thermal/Chemical Systems with Industrial Applications, Volume 2-C. R. Kleijn and S. Kawano
PVP-359	Fitness for Adverse Environments in Petroleum and Power Equipment-M. Prager	PVP-378	Seismic, Shock, and Vibration Isolation-H. H. Chung and K. Ishida
1997 International Mechanical Engineering Congress & Exposition (97-IMECE)		PVP-379	Integrity of Structures and Components; Nondestructive Evaluations -H. H. Chung and C. Monahan
PVP-360	Recent Advances in Solids/Structures and Application of Metallic Materials-Y. W. Kwon, D. C. Davis, and H. H. Chung		
1998 ASME/JSME Joint PVP Conference			
PVP-361	Structures Under Extreme Loading Conditions-H. Levine		
PVP-362	Severe Accidents and Topics in the NESC Project-S. Bhandari		
PVP-363	Flow-Induced Vibration and Transient Thermal-Hydraulics-M. K. AuYang		

CALL FOR PAPERS – 1999 ASME PVP CONFERENCE IN BOSTON

Prepare to participate in the 1999 PVP Conference which will be held at the Sheraton Boston Hotel and Towers, August 1-5, 1999. More than 140 paper and panel sessions are planned, as well as tutorials, NDE and Software demonstrations, and the Student Paper Competition. 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.

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, (10) Materials, (11) Student Paper Competition.

SCHEDULE: Abstracts are due by September 30, 1998. Authors will be notified of abstract acceptance by October 15, 1998. Draft papers are due by November 30, 1998. Paper peer review comments will be returned by January 31, 1999. Final papers in ASME format must be received by March 1, 1999. All accepted papers will be published in Conference Volumes.

ABSTRACT SUBMITTAL: Mail, fax, or email a 200-word abstract and the contact author's complete affiliation, address, telephone and fax numbers, and email address for each proposed paper to either:

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1997 PVPD Awards

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the Outstanding Paper in the Journal of Pressure Vessel Technology in 1996 was awarded to M. D. Xue, K. C. Hwang, W. Lu, and W. Chen for the paper titled "A Reinforcement Design Method Based on Analysis of Large Openings in Cylindrical Pressure Vessels."

Certificates of Appreciation were awarded to fifteen members: J. F. Cory, Jr., H. H. Chung, J. A. Todd, M. K. Au-Yang, Y. Asada, F. J. Moody, D. P. Lidbury, R. A. Ainsworth, G. G. Chell, J. M. Bloom, D. P. Kendall, J. A. Kapp, L. P. Antalfy, D. M. Fryer, and J. R. Sims, Jr.

Sixteen Certificates of Recognition were awarded at Technical Committee meetings during the 1997 Conference.

Recipients were: L. P. Antalfy, W. H. Bamford, M. Cohn, P. Dong, C. E. Jaske, I. T. Kisisel, T. W. Lee, C. Monahan, K.K. Panahi, M.J. Pettigrew, L. Picquer, S. Rahman, G. Rawls, R. Warke, and D. K. Williams. G. B. Hale, Director of Ride and Show Engineering at Walt Disney World, also was presented a Certificate of Appreciation for being the Plenary Session speaker for the conference.

Those recognized for being selected to present papers in the Student Paper Competition were: J. K. Al-Soudi of the University of North Carolina, M. Moatamedi of the University of Sheffield, T. Todd Pleune of Massachusetts Institute of Technology, and A. Zouani of Ecole Poly-

technique de Montreal. M. Moatamedi was awarded first place in the competition and received an additional award of \$500 and a special Certificate of Recognition.

Robert F. Sammataro
Pressure Vessels and Piping Division
Honors and Awards Chair

Welcome New PVPD Members

If you are not an ASME member, please take advantage of the one-year free membership. When you register at the 1998 PVP Conference in San Diego, please fill out an ASME Membership Application Form. As long as you meet ASME's enrollment criteria, you will be entitled to one year's free membership. You also are encouraged to attend the Technical Committee meetings in San Diego. You may contact the respective Technical Committee Chairs for more information or contact Judy Todd for the PVPD information at (312) 567-8867 or E-mail: jtodd@charlie.cns.iit.edu.

PVP Senate News

PVPD Senators Sam Zamrik and Robert Swindeman received Certificates of Appreciation from the PVRC of the Welding Research Council for their contributions to research

on materials for elevated temperature design. Senators Carl Jaske and Sam Zamrik were invited as members of the ASME International-Russian Academy of Sciences delegation to Russia, where they lectured on life prediction methodology.

The PVPD Senate maintains the history files of the Division, and good information is available to anyone who needs, or would like it. The contact person is the Historian. Also, Members are requested to supply historical information to the Historian if they have or know of any.

Richard C. Gwaltney
Pressure Vessels and Piping Division
Senate Historian

ICPVT-9 in Sydney, Australia April 9-14, 2000

The 9th International Conference on Pressure Vessel Technology (ICPVT-9) will be held in Sydney, Australia, April 9-14, 2000. Prospective authors may submit abstracts up to July 1, 1998 to Prof. G. E. O. Widera, Dept. Mech. Eng., Marquette University, 1515 W. Wisconsin Ave., P.O. Box 1818, Milwaukee, WI 53201-1818; E-Mail: WideraG@vms.csd.mu.edu. Phone/Fax: 414-288-7259/1647.

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