

Pressure Vessels and Piping Division Newsletter

Daniel T. Peters, Editor

Winter 2009–2010

A Message from the PVP Division Chair



Luc H. Geraets

The true intent of the PVP conferences, for all participants, whether they come from industry or academia, is to bring us together as one. PVP conferences have been and continue to be the focal point where engineers dealing with pressure technology can exchange their ideas through a common technical outlet. Each year, hundreds of volunteers are involved in organizing technical conferences, offering technical tutorials, authoring and reviewing technical papers, contributing to the publication of the Journal of Pressure Vessel Technology, and engaging students and early career engineers through our student paper competition programs and early career engineers' forums.

The ASME 2009 Pressure Vessels and Piping (PVP) Conference in Prague, Czech Republic, July 26–30, 2009, has marked a giant step for our Division. It was the first time since the birth of the Division, 43 years ago, that the annual Pressure Vessel and Piping Conference was held outside of North America. It was attended by more than 900 professionals from over 40 countries. **Dr. Amos Holt**, the 2009–2010 ASME President, and **Mrs. Madiha Kolb**,

member of the ASME Board of Governors, also attended this four day conference.

The theme for the 2009 PVP conference was *"Sustainable Energy for the Third Millennium."* A total of 703 peer reviewed papers were presented in over 180 conference sessions. The speakers for the Monday Plenary Session were:

- **Jean-Claude Gauthier**, Senior Vice President, AREVA NP, Paris, France, *"Facing the energy challenges: sustainable development & nuclear energy; some elementary thoughts"*, and
- **Dana Drábová**, Chair of the Czech State Office for Nuclear Safety Prague, Czech Republic, *"Nuclear Safety Regulation in a Changing Environment"*.

The Student Paper Competition, in itself, grouped together 37 papers in eight sessions.

We will continue to develop ever stronger global communities by stimulating the development, acquisition, and dissemination of the technical knowledge, by networking and sharing the knowledge to ensure the vitality and strength of the Pressure Vessel and Piping community. Let our **"Commitment to Purpose"** and our **"Passion to Improve"** move the Pressure Vessel and Piping Division to the **"Next Level of Excellence"**.

With these objectives as our basis, we have now started working together for the suc-

cess of the 2010 PVP Conference. PVP 2010 will be held next year in Bellevue/Seattle, WA, USA, under the leadership of our colleagues, Dr. Young Kwon, as Conference Chair, and Ron Hafner, as Technical Program Chair. You are all invited to join us and be part of this outstanding experience. I look forward to meeting you in Bellevue.

Warmest regards,

Dr. Luc Geraets
PVP Division Chair

PVP-2010 Bellevue, WA
July 18–22, 2010

Message from the Conference Chair



Young W. Kwon

The ASME Pressure Vessels and Piping Division will hold the upcoming PVP 2010 Conference in Bellevue, Washington on July 18–22, 2010. The conference is joined by the Korean Society of Pressure Vessel and Piping (K-PVP), and the ASME NDE Division. The theme of the PVP 2010 Conference is *"Pressure Vessel Technologies for Energy Challenge"*. The Conference is expected to have more

Conference Chair Message

(Continued from page 1)

than 180 paper sessions, panel sessions, workshops, tutorials, and the Student Paper Competition and Symposium. Furthermore, there will be the traditional NDE and Software Demonstration Forums.

The Conference website is <http://www.asmeconferences.org/PVP2010>. Please go to the website to see the conference "key dates" and the progress of the Conference activities. The ASME PVP Conferences have been traditionally excellent venues for exchanging state-of-the-art technical information, as well as enjoying many social and networking activities. The social programs are presently under progress. They will be posted on the website as they are finalized.

A new activity we are also planning for the PVP 2010 Conference is the first annual PVP Golf Outing. This is a new initiative to provide another excellent networking opportunity to the Conference participants. This will be a two player team scramble with random team assignments. If you are interested, please visit the Conference website for more information.

Please come and join us in Bellevue, Washington. We are looking forward to seeing you there!

Young Kwon
PVP 2010 Conference Chair

PVP Division Now on LinkedIn.com

The Pressure Vessel and Piping Division can now has its own group on the LinkedIn.com site. Membership Chairman, Michel Brongers, is administering the Group for the Division.

The number of folks linked to the group is growing steadily since its start in mid-2009. There are 223 members of the PVP Group on LinkedIn as of this writing. There are also many active discussion threads on the site. There are also eight active Sub-Groups corresponding to each of the Technical Divisions of PVP including:

- Design and Analysis
- Codes and Standards
- Materials and Fabrications
- Operations, Applications, and Components
- High Pressure Technology
- Seismic Engineering
- Fluid Structure Interaction
- Computer Applications/Technology and Bolted Joints

Many engineers today are using LinkedIn for discussions and networking on a professional level. PVP is embracing this and encouraging the membership to utilize this forum as one more method of exchanging ideas, discussing pertinent technical topics, and finding others to answer questions on technical topics relevant to their common industry.

The following web link will take you directly to the Pressure Vessels and Piping Division page:

http://www.linkedin.com/groups?home=&gid=1794527&trk=anet_ug_hm

Daniel T. Peters
Communications Chair

PVP 2010 Student Paper Competition



James F. Cory, Jr.

The PVP Senate will sponsor the second Student Paper Symposium and the 18th Annual PVPD Student Competition at the PVP 2010 Conference in

Bellevue, Seattle Washington, July 18-22, 2010. Students across the globe will compete for \$2,000 prize money for the winning papers in each of two categories – BS/MS student papers and PhD papers. In each category, the first runner up winner will receive \$1,800 and the second runner up will receive \$1,500. Students identified as Competition Finalists will receive \$1,000.

This competition builds on our students' successes at the PVP 2009 Conference in Prague. There were a total of 35 Student Participants: 25 PHD and 10 BS/MS. Of the 35 students, there were 12 PHD Finalists and 13 PHD Honorable Mention, and 4 BS/MS Finalists and 6 BS/MS Honorable Mention. The PHD prize winners were from Italy, United Kingdom (2), Belgium and Greece and the BS/MS winners from the US, Japan, Canada and Korea. All students were recognized at the Wednesday Honors Luncheon. Again, the PVP Technical Committees will encourage students in their respective fields to submit papers to the PVP 2010 competition. Please encourage your students to participate. The Student Paper Symposium and Competition topics can be found at the conference website at <http://www.asmeconferences.org/PVP2010>. We look forward to seeing you at the PVP 2010 Conference in Bellevue.

James F. Cory, Jr.
PVP Senate President

If you are interested in applying for ASME Membership, please visit <http://www.asme.org/Membership/Join/> for either online or mail applications.

To subscribe to Journal of Pressure Vessel Technology, please contact
E-mail: infocentral@asme.org, Phone: 1-800-843-2763 or 1-973-882-1170, Fax : 1-973-882-1717.

17th Annual PVPD Student Paper Symposium and Competition

Finalist Authors PhD



Cheng-Ching Chang
National Chung-Hsing University
Taiwan



Valentino Di Marcello
Politec di Milano
Italy



Hugo Faria
University do Porto
Portugal



Xiaoting Gu
University of Petroleum
Beijing, China



Simon J. Lewis
University of Bristol
United Kingdom



Herman Pinto
University of Cantabria
Spain



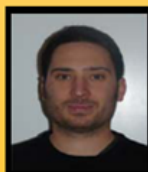
Amit Puri
Imperial College, London
United Kingdom



Takashi Yokoyama
University of Tokyo
Japan



Michael Schulz
BAM Federal Institute for
Materials Research and Testing
Berlin, Germany



Nicholas Tardif
Institute of Radioprotection
France



Jeroen Van Wittenbergh
Ghent University
Belgium



Daniel Vasilikis
University of Thessaly
Greece

PhD Winners:

First Place

Valentino Di Marcello

Second Place

Simon J. Lewis

Third Place

Amit Puri

Jeroen Van Wittenbergh

Daniel Vasilikis

BS / MS Winners:

First Place

Kathryn Kirsch

Second Place

Yuya Omiya

Third Place

Hichem Galai

Nak-Hyun Kim

Finalist Authors BS/MS



Hichem Galai
École de Technologie Supérieure
Canada



Nak-Hyun Kim
Korea University
Korea



Kathryn Kirsch
Penn State University
USA



Yuya Omiya
Hiroshima University
Japan

Honorable Mention Awards PhD



Gurinder Brar
University of North Carolina
USA



Zhou Fang
Zhejiang University
People's Republic of China



Reke Fotos
University of Miskolc
Hungary



Jesse J. French
University of Tulsa,
Oklahoma, USA



Haozhe Jin
Zhejiang University
People's Republic of China



Simon Kamel
Imperial College, London
United Kingdom



Rosa Lofrano
University of Pisa
Italy



Chris Maharej
Imperial College, London
United Kingdom



Bojan Medjo
Belgrade University
Serbia



Han-Ok Ko
Sungkyunkwan University
Korea



Stanislav Sojak
Slovak University
Slovakia



Osama Terfas
University of Glasgow
Scotland



Conrad Zurburchen
Inst. of Safety Research
Dresden, Germany

Honorable Mention Awards BS/MS



Hussein A. Al-Hadhimi
Petroleum Institute
Abu Dhabi, UAE



Sun-Haye Kim
Sungkyunkwan University
Korea



Houichi Kitano
Osaka University
Japan



Keijiro Nishi
Kumamoto University
Japan



Renke Scheuer
Leibniz University, Hanover
Germany



Jana Veternikova
Slovak University
Slovakia

PVP Member Works in Space

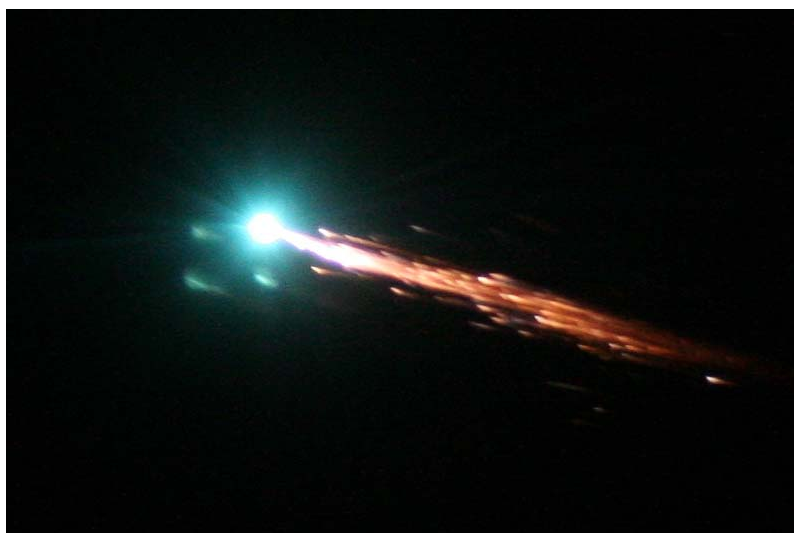
The Automated Transfer Vehicle "Jules Verne" (ATV) of the European Space Agency (ESA) was the first unmanned spacecraft that transported cargo, water, air and propellant to the International Space Station (ISS) and was able to autonomously dock to it. A dedicated re-entry observing multi-instrument aircraft campaign (MAC) was organized in September 2008 by ESA and NASA to observe the return of ATV-1 "Jules Verne". The reentry of the ATV was observed from two aircraft: a Gulfstream and NASA's DC8 Airborne Laboratory. Each aircraft was equipped with a multiple cameras and spectrographs.

Dr. Christina Giannopapa works as an engineer in the Mechanical Engineering Department of the European Space Agency and participated in the campaign. She operated a high frame rate multi-camera system for high resolution imaging developed by ESA. When she was asked about here experience she responded "I looked out of the window... it was most beautiful thing I have ever seen... full of colors passing by... these are the moments you feel really proud to be an engineer..."

Dr. Christina Giannopapa has been involved in the PVP Division since 2004 and is currently the secretary of the Fluid Structure Interaction Committee. When she was asked about her involvement in ASME PVPD she responded "Just as I finished with my PhD, the members of the FSI Committee asked me to attend their meetings and get involved. I learned so much from them over the years. It is great to be involved when you are young and get the experience of others. I am very thankful to them for this and I welcome all young Engineers that want to join us."



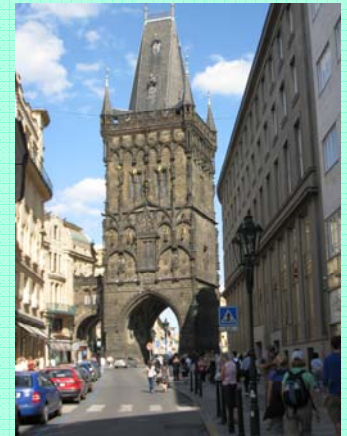
ATV multi-instrument airborne observation campaign mission preparation. Dr. Christina Giannopapa is preparing the multi-camera instrument with her team Bob Haberman in the NASA DC-8 plain.



Images taken from the DC-8 aircraft which observed the re-entry of Jules Verne ATV over the Pacific Ocean (Credits ESA).



17th Annual PVPD Student Paper Symposium & Competition Fun and Memories at PVP 2009 in Prague



Wednesday Night Social Event and Concert

After a hard day at the conference



Lunch anyone?



What an odd looking group



ATTENTION GOLFERS!

ASME PVP-2010 Golf Outing
Saturday afternoon
July 17, 2010

- 2-Player Team Scramble
- Random Team Assignments



Includes: Transportation from/to Hotel
Greens Fee + Riding Cart
Dinner

- Excellent networking opportunity
- Meet others at PVP
- See more of the local area at the PVP Conference
- Combine your favorite sporting & professional activities
- Play one of the nicest courses in Washington

More detailed information and Corporate opportunities to support the Outing to follow soon!

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