

## From the Chair

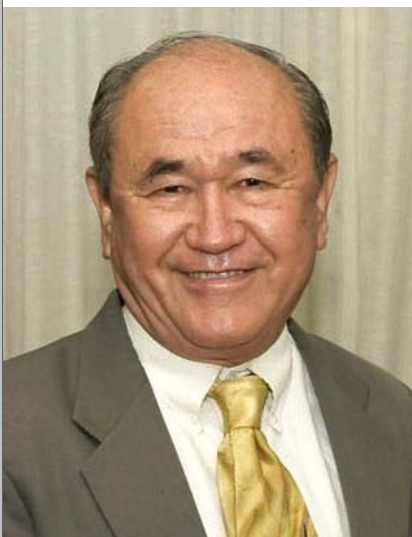


It is my privilege to serve as Chair of the Executive Committee of the Pipeline Division for 2010 and I am looking forward to working with the other members of the Division's leadership team to build on the accomplishments of our predecessors. I would particularly like to thank Dr. Mohammad Najafi for his service as Chair of the Executive Committee last year. Mo has been untiring in his work for the Pipeline Division over the past several years as is demonstrated by one of the more significant results of his efforts, the newly establish *Journal of Pipelines Systems Engineering and Practice* which is featured later in this newsletter.

As we start a new year, I urge all of you who are interested to get involved with the Pipeline Division. It is not necessary that you possess a specific area of expertise or that you occupy a senior professional position. All you really need is a desire to work with your fellow professionals to advance the state of the art in the field of pipeline engineering. The way to get started is to become active in a Pipeline Division technical committee. Contact information for technical committee chairs is listed later in this newsletter. I started with the TIPS Committee and I can honestly say that my service with the Pipeline Division has been one of the most worthwhile professional activities I have ever undertaken.

If you are not sure where you might fit in, contact me at 918-747-9945 or [jhair@jdhair.com](mailto:jhair@jdhair.com). I would be please to visit with you about what the Pipeline Division has to offer you and what you can offer the Pipeline Division.

## In Memoriam



It is with deep regret that the Pipeline Division acknowledges the passing of Dr Henry Liu pm December 1, 2009. Dr. Liu had Ph.D. and M.S. degrees in Civil Engineering from the Colorado State University and B.S. in Civil Engineering from the National Taiwan University. Dr. Liu had more than 37 years of teaching, research and development experience in civil engineering specifically serving the pipeline and underground infrastructure industry. He was emeritus professor of civil engineering and founder and past director of the Capsule Pipeline Research Center at the University of Missouri—Columbia. He served as president of the Freight Pipeline Company in Columbia, Missouri. He was recognized as a pioneer, authority and leader in the field of pipeline engineering. He had authored three recognized books and more than 50 journal (refereed) research papers and more than 150 conference papers. He was a recipient of major research grants (totaling more than six million dollars) form federal, state and private agencies, such as the U.S. National Science Foundation and Department of Energy. He

was a patent holder for more than 13 inventions.

Dr. Liu was a recipient of many awards, especially the prestigious Stephen D. Bechtel Pipeline Engineering Award in 1992. He was organized and chaired many national and international conferences, short courses and has been a frequent invited and keynote speaker for professional events. He was founder and chair of International Society for Underground Freight Transportation (ISUFT). Professor Liu was a tremendously creative and influential underground freight transportation (UFT) researcher. His dedication to UFT as a means to develop Pneumatic Capsule Pipeline (PCP) technology and to increase our knowledge about UFT. Always interested in new insights, he communicated with scientists around the world and impressed us all tremendously with the UFT orientation and his foundation thinking.

Dr. Liu was an active member of ASCE and the Pipeline Division. He was a frequent contributor to the annual Pipeline Division's conferences and workshops serving as committee member, session chair, reviewer and speaker. He was vice chair of the Pipeline Research Committee and Associate Editor of the new ASCE Journal of Pipeline Systems Engineering and Practice (JPS). It is difficult to say how much we will all feel the loss of such a great scientist, and that our deepest sympathies go out to entire pipeline industry. ASCE Pipeline Division will keep his memory in the highest regard.



## 2011 Bechtel Award Nominations Are Open!

Nominations for the Pipeline Division's most prestigious award, the Stephen D. Bechtel Pipeline Engineering Award for 2011 are due to ASCE Headquarters [by November 1, 2010](#). Established by the American Society of Civil Engineers Board of Direction in October 1970, to recognize outstanding achievements in pipeline engineering. The award is made annually to a member of the American Society of Civil Engineers who has made a definite contribution to the advancement of pipeline engineering, either in research, planning, design, or construction. All nominations are forwarded to the Pipeline Division Executive Committee for consideration and recommendation to the Executive Committee of the ASCE Board of Directors for final action. It's never too early, get your nominations in now!

For more information, and an official nomination form go to <http://www.asce.org/pressroom/honors>

## Pipeline Division Committee Updates

### **New Manual of Practice for the Renewal of Potable Water Pipes In Progress!**

A new manual of practice on methods for the renewal of potable water pipes is being developed through a task committee within the PINS (Pipeline Infrastructure) committee of the Pipeline Division of ASCE. The objective of the manual of practice is to provide information on appropriate renewal technologies with a focus on design, evaluation and installation. The committee is in the process of researching appropriate materials and methods for this purpose. The manual will include design, material selection, application methods, appropriate cleaning and lining installation equipment and their advantages to the renewal of potable water infrastructure. Pipe lining case histories will be sought to provide further understanding of the capabilities of these technologies. The lining product should be ANSI/NSF – 61 certified.

The PINS committee chair is John Jurgens and the task committee work is being coordinated by Dr. Mario Perez. The task committee welcomes collaborators, especially those who may have an ANSI/NSF 61 certified technology that may be applicable to the renewal of potable water pipelines. Please feel free to call or email Dr. Perez (651-7360331, [maperez3@mmm.com](mailto:maperez3@mmm.com)) if you would like to contribute to write this document in an expeditious manner.

### **Pipeline Planning and Design Committee - Pipeline Design Manual Update**

The Pipeline Planning and Design Committee will be working on updating “The Pressure Pipeline Design for Water and Wastewater Manual” and is looking for volunteers to participate in this task. Those who are interested participating should contact Sam A. Arnaout, P.E., [sam.arnaout@hanson.biz](mailto:sam.arnaout@hanson.biz).

### **Transient Analysis Task Committee - Next Meeting**

The Transient Analysis Task Committee is currently developing a second draft of its Manual of Practice (“The Planning and Design of Hydraulic Transient Control for Transmission Pipeline Systems”). The authors are adding an introduction section to improve accessibility to the topic in addition to refining the section on modeling practice and quality review. The committee plans to meet for a working session in Dallas, TX on Friday March 12. For additional information contact Scott Williams, [scott.williams@ch2m.com](mailto:scott.williams@ch2m.com).

## **Participate – Get Involved!**

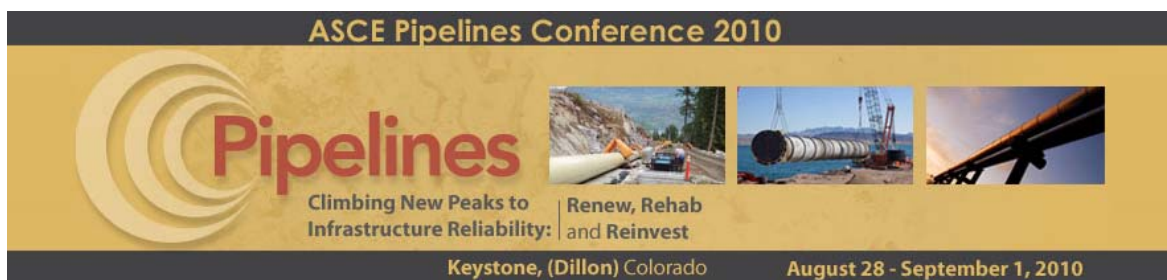
Do you have an interest in participating in important work to promote pipeline engineering? Do you know what resources are available to you as a pipeline engineer from PLD? The ASCE Pipeline Division is an active organization that seeks to encourage professionalism and promote the importance of pipeline engineering. Satisfy that urge you’ve had to be a part of something important and make your mark on the industry! Contact the Chairs below to see how you can contribute and improve your network of pipe professionals! For additional information see PLD’s new website: <http://www.pipelinedivision.org>.

## Committee Contacts

- [ASCE Pipeline Research](#) Chair: [Mohammad Najafi najafi@uta.edu](#)
- [Pipeline Publications](#) Chair: [Mohammad Najafi najafi@uta.edu](#)
- [Pipeline Infrastructure \(PINS\)](#) Chair: [John Jurgens John.Jurgens@seattle.gov](#)
- [Pipeline Location and Installation \(PLI\)](#) Chair: [K. Sri Rajah sri.rajah@hdrinc.com](#)
- [Pipeline Planning and Design](#) Chair: [Sam Arnaout sam.arnaout@hanson.biz](#)
- [Pipeline Safety and Risk Management](#) Chair: [Paul Passaro ppassaro@psands.com](#)
- [Trenchless Installation of Pipelines \(TIPS\)](#) Chair (incoming): Tennyson Muindi [tmm@haleyaldrich.com](#) (outgoing): [Henry Nodarse hnodarse@blainc.com](#)
- [Underground Pipeline Asset Management \(UPAM\) Committee](#) Chair: [Tom Iseley dtiseley@iupui.edu](#)

## Conference Schedule Updates

### 2010 ASCE Pipelines Conference



Preparations for the upcoming annual Pipeline Conference, with the theme of "[Climbing New Peaks to Infrastructure Reliability](#)", are being finalized. With a full slate of workshops, committee meetings, tours and networking events, this year's conference continues the Pipeline Divisions commitment to excellence!

We look forward to seeing you in Keystone!

## 2010 NASTT International No Dig Conference



This year will celebrate NASTT's 20-year celebration. By bringing together an extensive group of municipalities, engineers, vendors and contractors in one place, you will enjoy the benefits that the No-Dig show offers. If there ever was a time to get involved or network with a group of trenchless professionals – Schaumburg in 2010 is it. See you there!

## Recent Conferences

### ASCE International Conference on Pipelines and Trenchless Technology



ASCE's "International Conference on Pipelines and Trenchless Technology", was held in Shanghai, China in October and hosted by the **American Society of Civil Engineers ASCE – Pipeline Division, China - U.S. Joint Center for Trenchless R&D (CTRD), China Society for Trenchless Technology (CSTT) and the Center for Underground Infrastructure Research and Education at The University of Texas at Arlington (CUIRE).**



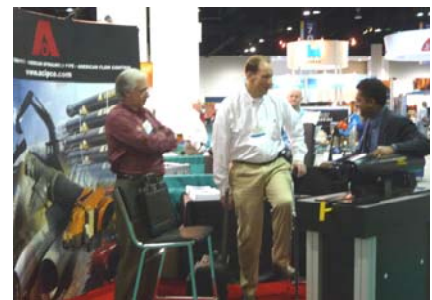
The conference covered a wide range of topics to address an industry audience including engineers, contractors, suppliers, educators. Presentations including: trenchless construction developments, condition assessment, asset management and oil and gas

industry research projects were showcased. A total of 347 abstracts were received and 225 were accepted in this conference; from these, more than 80 papers were oral presentations, many others were scheduled by the conference committee for poster presentations. Outdoor and indoor exhibition areas were set for approximately 27 companies. The conference honorary chairs were Dr. Tom Iseley, Purdue University, Dr. Ray Sterling, Louisiana Tech University, and Dr. Qihu Qian, Chinese Academician of CAE. As conference co-chairs, Dr. Mohammad Najafi, CUIRE/The University of Texas at Arlington, Dr. Huiming Tang, Vice President of CUG, AND Mr. Chunwen Yan, chairman of CSTT.

## Underground Construction Technology (UCT) 2010



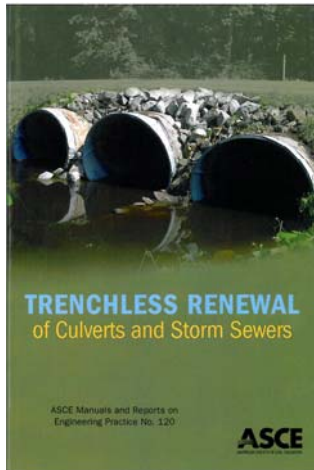
For more than 15 years, the Underground Construction Technology (UCT) International Conference & Exhibition has been the meeting place for the underground utility construction and the rehabilitation markets. Attendees worldwide come to UCT to stay connected to all things underground – in both the trenchless and conventional methods. This year's show was no different and drew several thousand attendees including engineers, contractors, owners, manufacturers.



As always the Rehab Zone was a big hit in bringing the many different facets of this diverse technology industry together. Planning for next year is already underway for next years return to Houston for the 2011 UCT.

# Publication News & Updates

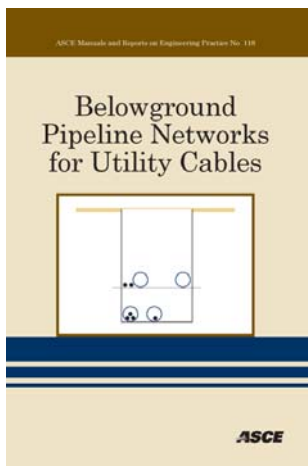
## New for your Pipeline Library - Available NOW!



### Trenchless Renewal of Culverts and Storm Sewers ASCE Manual of Practice No. 120

Lynn Osborn - Editor

This first edition of Manual of Practice No. 120 updates the latest technologies and best practices used by engineers and construction professionals for the design and rehabilitation of culverts and storm sewers. In its first year of publication this manual will be a valuable reference for both new and experienced engineers, as well as utility owners, contractors, and other industry professionals.



### Belowground Pipeline Networks for Utility Cables ASCE Manual of Practice No. 118

Lawrence Slavin - Editor



### Inspecting Pipeline Installation ASCE Manual of Practice No. 117

T. J, Hovland & Mohammad Najafi - Editors

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**<http://pubs.asce.org/journals/pipelines>**



Dear Colleagues,

It has taken ASCE Pipeline Division Executive Committee (EXCOM) and the ASCE Publications department more than 8 years to plan and establish a dedicated journal for pipeline papers. The new *ASCE Journal of Pipeline Systems Engineering and Practice*, provides a dynamic forum for the dissemination of research papers as well as case studies and technical notes in all areas of pipeline engineering.

The *Journal of Pipeline Systems Engineering and Practice* provides an authoritative international forum for timely and in-depth exchange of ideas and integrated technical solutions, and supports the professional interests of a broad group of researchers and practitioners from academia, industry, and government with new pipeline technologies, planning, engineering, design, construction (conventional and trenchless), renewal, safety, operation and maintenance, asset management, environmental aspects, and sustainability

of pipeline systems.

The *Journal* covers all the areas of technical interest summarized in the following (nonexclusive) list:

Current and emerging technologies; investigation innovations and condition & structural assessment; pipeline stress analysis and mechanical design; pipe materials (composites, hybrids, and “smart” pipes), appurtenances and joining systems; internal and external corrosion protection (linings, coatings and cathodic protection); pipeline hydraulics, modeling, and pumping; developments in codes, specifications, and standards; hazard identification, as well as hazard location, security, and safety; in-line, remote, and automated condition assessments; performance, deterioration, life-cycle-cost analysis and optimization techniques; geotechnical, pipe-soil-structure interaction and seismic issues; risk assessment & management; budgeting & funding issues; forensic investigations, GIS applications; and renewal and replacement/installation techniques.

The *Journal* may address above areas with analytical studies, physical testing, computational

methods, full-scale trials or operational experiences, failure investigations and case studies pertaining to water distribution and transmission systems, wastewater collection systems (gravity and force mains), storm sewers & drainage structures/culverts, oil, gas, industrial, slurry, pneumatic and capsule pipelines as well as conduit applications for power and communication cables.

We have major plans for the journal's future. These plans include publishing select papers that will be presented at the annual ASCE International Pipeline Conferences, publishing special issues, and providing awards to quality papers. Please do not hesitate to contact me or any of the associate editors if you would like to work with us in these efforts.

I invite you to submit your technical papers, case studies, and technical notes, to The *Journal of Pipeline Systems Engineering and Practice*. We promise you a -fast and fair- review, and strive to notify you in 45 days about outcome of your paper. Manuscripts should be submitted to the Journal's Editorial Manager at <http://www.editorialmanager.com/jrnpseng/>

Thank you for your support of *Journal of Pipeline Systems Engineering and Practice*. Please do not hesitate to contact me if you have any questions about the journal. We look forward to hearing from you!

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