SOCIETY OF PIPING ENGINEERS AND DESIGNERS

SPECIAL POINTS OF INTEREST:

- PT&P Open House, May 13th, Houston, TX
- Intergraph User Conference, June 15-18, Washington, DC

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SPED Update May 2009

VOLUME 2, ISSUE 5 MAY 2009

Piping Technologies & Products and SPED Open House Expects Unprecedented Attendance

Piping Technologies & Products and SPED will be hosting a FREE Open House at the PT&P Manufacturing Facilities, 5:30 on Wednesday, May 13th. Registration has been unprecedented and is anticipated to be range from 200-250 participants. PT&P will be giving tours of their facilities with technical demonstrations. SPED will be awarding 1 PDU (Professional Development Unit) for the event.

Piping Technology and Products Facility located in Houston, TX (PT&P along with its wholly owned subsidiaries, U.S. Bellows, Inc., Sweco Fab, Inc., Pipe Shields, Inc., and Fronek Anchor Darling, Ent., manufacture a wide variety of high-quality engineered products.)

PT&P has been a SPED Corporate Member from its inception. PT&P has contributed to SPED's mission of supporting education for the profession of Process Piping Design in AAS and BS degrees. For over ten year's PT&P has representative on the SPED Board. Currently PT&P is represented by Alan Cooper, SPED Director, and Terry McCormick, SPED Vice President.

PT&P is located just a few miles from the Port of Houston, the largest port in the United States, PT&P and its wholly owned subsidiaries manufacture and provide engineering services at its own 30 acre facility. PT&P quickly and conveniently transport their products to customers in a timely manner. With over 450,000 square feet of covered shop space, PT&P's manufacturing facilities are capable of fulfilling the needs of each customer and their requests.

Visit www.pipingtech.com for more information about Piping Technology and Products.

Come visit us at www.spedweb.com for more information.

Inside the Mind of the Hiring Manager

Now we know you think that managers have stopped hiring in this tight market. However, jobs are slowly opening up, especially for Process Piping Engineers. We asked a hiring manager at one of the top EPC Firms in Houston what he wanted in a hiring candidate's resume and interview. For privacy reasons he wished to remain anonymous for this article.

SPED: What are you looking for in a resume?

Hiring Manager: In a resume—I'm looking at durations, 2-D, 3-D, what software did they use—how long were they using it during each job. And details. The more detail, ...I did this and that. Don't tell about wife and kids, give details. Stuff that's unusual to sell yourself.

I want them to:

- List all their jobs then;
- Durations
- Contract or direct
- Job or type of drawings they were making
- Give details that match up with work and more importantly experience, AutoCAD, MicroStation, etc.

I don't want to go back to the contract shop for more details because I don't have time. If I've got six resumes on my desk and five have great details, I look at the five.

SPED: What about references?

Hiring Manager: References aren't as important as details. I am looking for experience.

SPED: What about in the interview, any tips?

Hiring Manager: Right in the door—professional, clean, neat ,dressed appropriately, eye contact and confidence level that they know what they are talking about. The biggest thing is presentation. You don't need to wear a coat and tie but nice clothes, business casual. You need to dress appropriately. You are putting yourself out there. You are trying to market yourself. Treat it like you are trying to get a date.

Dress professionally. Act professionally. I expect that they will ask questions but let the hiring person drive the question. If they ask you to tell them about yourself tell them a short dissertation and then ask, "Did I answer your question? I can give you more detail if you like it." Short one, two minute dissertation. You don't get a lot of time to sell yourself so every minute counts.

SPED: What about the new Piper trying to get in the door?

Hiring Manager: They need to tell what education they have. They need to be really careful about their dress. They need to tell about what training they have had. What they want to do. We are looking for flexibility. They may get to draw one day and they next they may be Xeroxing. Be prepared to pay their dues.

In a resume—I'm looking at durations, 2-D, 3-D, what software did they use—how long were they using it during each job. And details. The more detail, ...I did this and that...I don't want to go back to the contract shop for more details because I don't have time. Hiring Manager

His List of What He Wants on A Resume:

- Term
- Experience
- Type of Projects
- If a Lead, Size of Project and Lead Number of Software Utilized and Gross Proof or Revamp
- Onshore/Off Shore
- Always List Achievements and Tools Used
- Personal Information Not Required
- Always List Software used per Project
- Software Experience such as years of use (the List of Projects will Explain current or Aged Experience) Clash, Model e.g., Review, etc.
- A Small Paragraph Bio
- Dates By Company & Title is a Must
- Make Sure Your Resume is Detailed and Punctuated Correctly

SPED thanks the Hiring Manager for his time and assistance in preparing this article.

Alliance Engineering Receives FIATECH 2008 CETI Award

Using AVEVA PDMS technology, company fast tracks world's largest energy projects

"We're very pleased to receive this prestigious award from FIATECH," said Ron Bohanna, Vice President of Engineering for Alliance Engineering. "Using AVEVA's PDMS software, Alliance has successfully designed and executed innovative solutions offshore and on, that help customers meet their business goals below cost and ahead of schedule."

HOUSTON AVEVA Group plc (LSE:AVV) today announced that its client, Alliance Engineering, a provider of engineering, procurement and construction management services for the energy industry, received FIATECH's 2008 Celebration of Engineering & Technology Innovation (CETI) Award in the category of Automated Design. The company uses AVEVA's PDMS solution to plan and execute its ultra-deep water exploration projects.

"We're very pleased to receive this prestigious award from FIATECH," said Ron Bohanna, Vice President of Engineering for Alliance Engineering. "Using AVEVA's PDMS software, Alliance has successfully designed and executed innovative solutions offshore and on, that help customers meet their business goals below cost and ahead of schedule."

AVEVA's PDMS software allows Alliance to design using 3-D modeling so its clients can fully visualize the project from planning to execution. On most exploration projects, all disciplines are involved – electrical, instrumentation, piping and structural. PDMS streamlines all of the data and updates it into one single model that is continuously modified throughout the lifespan of the project.

"Alliance Engineering has made some remarkable engineering advances in deep water exploration," said Derek Middlemas, Group Operations Director at AVEVA Group plc . "And AVEVA is proud to be a contributor to their success."

Alliance's portfolio of projects includes some of the world's largest and most visible onshore, deep offshore, and Floating Production, Storage and Offloading (FPSO) projects, including a presence in the Gulf of Mexico, where Alliance has designed and engineered many of the new build Deepwater Floating facilities using AVEVA PDMS technology.

The CETI Award was established in 2006 to promote and showcase innovative construction-related technologies that benefit the capital projects industry. The Award is given annually to organizations that have conducted new and emerging technology implementations as well as research and development.

About AVEVA Group plc

AVEVA is trusted around the world to deliver engineering IT solutions with strategic value to leading companies in the plant and marine industries. For further information please visit www.aveva.com or www.aveva.com/ednotes

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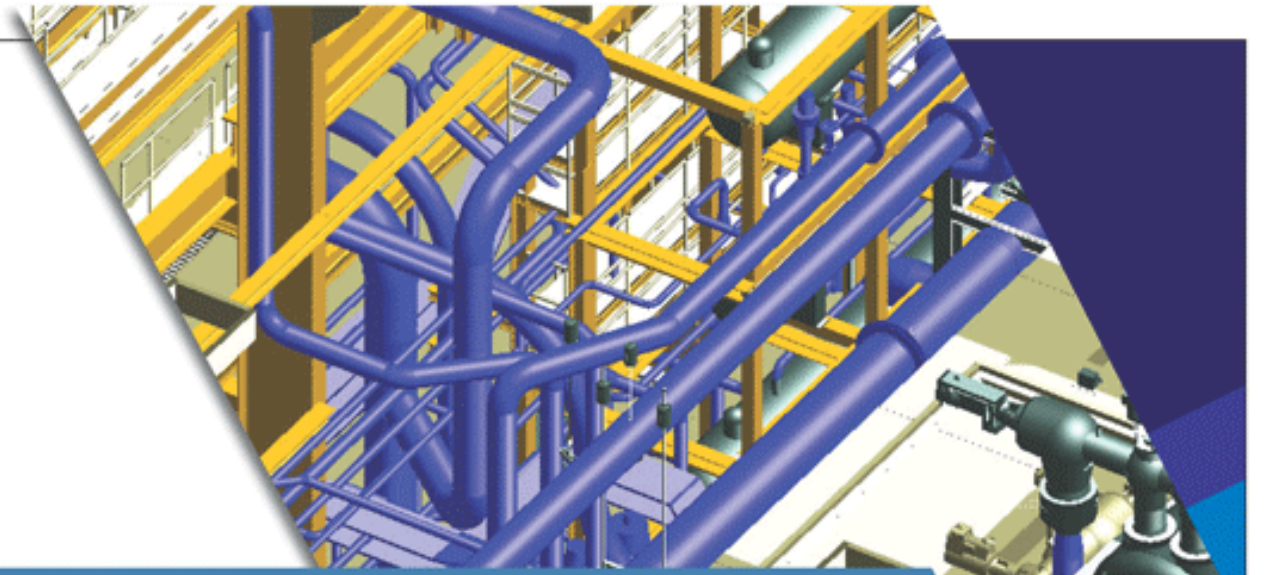


Delivering the Future...

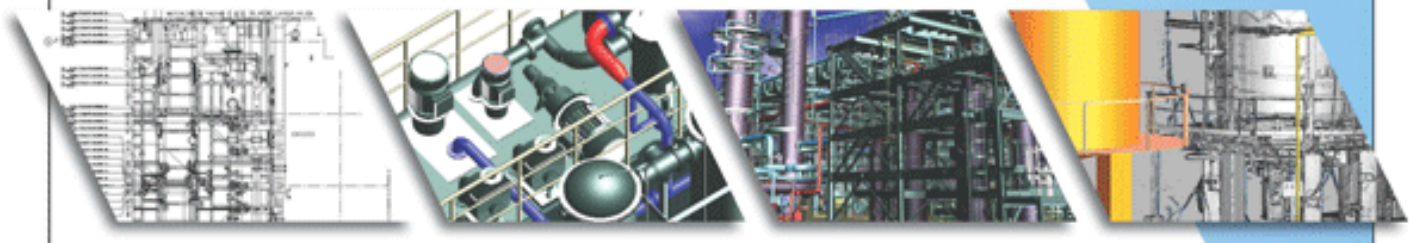
AVEVA PDMS - the world's first, and still the best, piping solution. Automatic pipe routing, interactive graphical design tools and powerful integrity and design checking functions enable rapid, accurate piping design.

For 40 years, AVEVA has been helping its customers face the challenges of a continually evolving business environment... offering ever more capability, productivity and flexibility, but never at the expense of long-term stability.

AVEVA's unique and proven technology is unrivalled in safeguarding its customers' data and protecting their significant investment in engineering information technology.

Don't get left behind...

Find out how AVEVA can help deliver a better future for your engineering data at: **www.aveva.com** or contact us via email on: **sales.us@aveva.com**



AVEVA

CONTINUAL PROGRESSION

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Industry News Snapshots

Contracts Awarded: Mustang, Jacobs, Technip, GDF SUEZ, Aker Solutions, Shaw Group

Source: Contractors Unlimited

http://www.contractorsunlimited.co.uk/news-int1.shtml

Mustang Awarded Feed for Chevron Jack & St. Malo Deepwater Project , May 6, 2009

Mustang selected by Chevron to perform front-end engineering design for topsides facilities for the Chevron Jack & St. Malo Project, located in approximately 7,000 feet of water in the Gulf of Mexico (GOM) and about 270 miles southwest of New Orleans in the Walker Ridge area.

Jacobs Awarded Suncor Contract, May 5, 2009

Jacobs Engineering Group receives contract to provide engineering services for Suncor's Upgrader 2 (U2) 2010 Reliability projects near Fort McMurray, Alberta, Canada. Jacobs Engineering will provide engineering services for a number of reliability projects in Suncor's U2 Heavy Oil Upgrader complex.

Technip Awarded Subsea Contract for Daniel Boone Field in Gulf of Mexico, May 5, 2009

Technip awarded contract by W&T Offshore Inc. for the Daniel Boone field development, in the Gulf of Mexico. This field is located in Green Canyon Block 646, at a water depth of 1,349 meters (4,230 feet) and will be tied back to the Front Runner Spar.

GDF SUEZ and Total Team up for EPR Project in Penly, May 5, 2009

French Prime Minister Francois Fillon grants GDF SUEZ a 33.33% block of shares plus one share in the company formed to build and operate the EPR in Penly, alongside its partner EDF which will hold the majority of the capital. As indicated previously, GDF SUEZ proposed to Total they should join forces for this project.

Aker Solutions Awarded Contracts for Sakhalin 1 Gravity Base Structure, April 30, 2009

Aker Solutions awarded contracts from Exxon Neftegas Limited, as operator on behalf of the Sakhalin-1 Consortium, for designing, constructing and delivering the Arkutun-Dagi gravity base structure (GBS) for the Sakhalin-1 project. The GBS construction will primarily utilise Russian workers, subcontractors, and materials.

Shaw Signs Cooperation Agreement with China's State Nuclear Power Technology Corporation, April 28, 2009

Shaw Group signs strategic cooperation agreement with China's State Nuclear Power Technology Corporation (SNPTC). The agreement is a task-order based contract, which allows both companies to issue tasks to support each other in growing nuclear infrastructure businesses.

COADE Releases CADWorx Design Review 2009, Providing Faster, Easier 3D Plant Design Model Review And Collaboration

HOUSTON, TEXAS – April 29, 2009 – COADE announced today the release of CADWorx Design Review 2009, providing for faster, easier and more intuitive 3D review of plant design models for collaboration among designers, project managers, facility owners and other stakeholders involved in the review, modification and approval of designs prior to fabrication or construction. With 3D review of models, stakeholders reduce the need to interpret designs via paper printouts and other non-interactive methods, and they can improve collaboration with tools for markups, design comments and red-lining, which helps reduce the chance for errors and omissions in the design.

The intuitive interface of CADWorx Design Review 2009 and its performance-based design make manipulating and moving around even the largest models quick and smooth. When working on multiple models with CADWorx Design Review, there is no need to manually load the separate model files that make up a design. If files are externally referenced, these are automatically included in the review model.

And, creating informative and stunning animations is simple with CADWorx Design Review. Users can set out animation paths and edit the path line at any point. The view direction on any point of the animation path can also be edited in any combination.

CADWorx Design Review provides full integration with CADWorx Plant, providing the same model information as in a CADWorx design session, including descriptions, line numbers, weights and other plant design data.

Details on CADWorx Design Review and other COADE products are available at www.coade.com.

About COADE

COADE, Inc. is a provider of software for multiple plant design and engineering disciplines. COADE's aims are that design and engineering should share relevant information seamlessly, thereby maintaining accuracy and improving efficiency. COADE's product line conforms to those goals and includes: CAESAR II, the world's most widely used pipe stress analysis software; PV Elite for pressure vessel and heat exchanger design and analysis; CADWorx Plant Design Suite for intelligent plant design modeling, process schematics and automatic production of plant design deliverables; and TANK for the design and analysis of oil storage tanks. COADE, CAESAR II, CADWorx, PV Elite, CodeCalc and TANK are registered trademarks or trademarks of COADE, Inc. For more information, visit www.coade.com.

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SPED Online Training Initiated

SPED will officially begin online training for its PPD BootCamp and Process Plant Layout courses beginning May 26th. The PPD BootCamp and Process Plant Layout courses include tests for the PPD Level I and Level III, respectively. Testing in Houston is at SPED's headquarters, while testing outside of Houston will incur a proctoring charge. The training is exclusively for SPED Members and those registered by Friday May 15th will pay $1400 versus $1500 after May 15th.

SPED has developed the PPD BootCamp and Process Plant Layout courses over that last 20 years to support piping designer professional development. Power Point slides to support the courses were developed by William G. Beazley, who is also SPED Executive Director, and SPED sells recordings of the course lectures.

The web based training offers working pipers an opportunity to acquire SPED PPD certification though online study at their convenience. Once enrolled, they can download notes, view video lectures and take quizzes designed to prepare for PPD tests.

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Piper BootCamp

Intro to Process Plant Design
Design Phases & Information
General Layout Considerations
Pipe Manufacture & Fabrication
Layout Specification
Pipe Assembly
Typical Spool ISO's
Compressors
Pipe and Weld Materials
Pipe Supports & Hangers
Valve Types & Applications
Self-Actuated Valves
Valve Selection and Use
Pump Selection
Pump Layout
Pipe Friction Losses/Pump Sizing
Pipe Routing
Pipe Racks
CAD
Pressure Vessels

Process Plant Layout

Intro to Process Plant Design
Design Phases & Information
General Layout Considerations
Compressors
Drums
Heat Exchangers
Furnaces
Reactors
Instrumentation
Pump Layout
Pipe Friction Losses/Pump Sizing
Distillation Towers
Pipe Racks
CAD
Plant Structures
Underground Piping
Tanks
Pipe Stress and B31.3

For enrollment information, contact: Amy Voss-Foster, SPED Educational Resource Specialist, 832-286-3404, spedadmin@spedweb.com.

SPED Website Launches New Forum For Pipers

SPED is has just launched our new forum for Pipers. In the past all members had to be accepted by the Google Groups. While that feature will still be maintained, this new feature will remain in the website behind the "Members Only" section. Users will log in and can now post and create forum groups.

Two forums have been created for immediate postings, General and Software. "This will be an excellent opportunity for Pipers to ask each other questions and find tips." stated Andrea Macejak , SPED Operations Manager. "Paul Cesak, one of SPED's newest board members will oversee the forums. We are excited to see how Pipers will use this new tool. Our newly built website offers so many new features for Pipers. This is one of many that we will be offering. I anticipate that the feedback will be for more venues such as these for instant interaction. This new site offers more tools to disseminate information and create connections. Pipers want information from Pipers. They will be able to ask about jobs, piping tips, where to network, the best conferences and anything piping. The easier access will be beneficial for everyone. I can even post easier. "

Paul Cesak, SPED Director, of Enterprise Management Technologies, Inc., has volunteered to monitor and guide the forum. He was voted onto the SPED Board at the 2009 Annual General Business Meeting. SPED thanks Paul for taking on this newest venue for piper networking. Have you forgotten your username and password? Please contact the SPED Office at 832-286-3404 or spedadmin@spedweb.com.

OPEX not CAPEX:

Who's Hot and Who's Not?

One of the startling revelations at the well-respected PlantSuccess (www.plantsuccess.com) Meeting in Clear Lake was that technology for operations is still going strong in Houston's Process Plants. In the program's regular panel of technology sponsors of the program, all were reporting strong sales for at least the first quarter of 2009.

JD Tate, Scientist, Process Analytical Technologies, The Dow Chemical Company, Explains Energy Reduction Initiatives.

Add to this the strong attendee turnout at the annual ASME Plant Engineering, Inspection and Maintenance Trade Show in Pasadena, TX (http://www.asmepem.org/2008%20ASME%20Expo%20Web/index.htm). Attendance figures were not available but it was clear by walking through the exhibit area that there was strong interest in the show and in the technical briefings that were offered throughout the day. Asking around at a few booths, it was clear that capital equipment vendors (compressors, tanks, etc.) were suffering reduced business, while operations vendors (inspections, turnaround staffing, etc.) where doing quite well.

Clearly, the plants in Houston continue to run and continue to make the necessary changes to stay running. As one industry expert puts it, "there are really three markets: CAPEX, OPEX and regulatory. The latter two are still holding up."

Ex-SPED President Keith Thayer, Simon Lee, Viviana Vargas, Robert Beazley at ASME Plant Engineering, Inspection and Maintenance Show.

The lesson for us as piping designers is that those plants are still out there and they are still running. They are going to need repair, updating and, eventually, replacement. Most everything affected by this has a pipe attached to it.

In my humble opinion, there were plants before this recession and there will be plants after it. As for oil and gas, the long term future even looks bright. Should electric cars become popular at their staggering price tag, hydrocarbons will continue to power them through their use as power plant fuels. (Yes, nuclear is cheaper power but at a much high capital cost) Only combustion or nuclear plants can be counted on generate at all levels of wind and sun. We will never have a wind or solar powered peaker plant (electric power plants designed to satisfy sudden demand).

So, as soon as the Administration figures out who and how to tax for its programs, the financial markets will creep back and the owner/operators will take a fresh look at which projects still make sense in the US. Some will and you will definitely be a part of them.

Do You have More News for US?

Do you want more information about an article found in the SPED Update? Do you know of a conference we need to add to our calendar? Contact the SPED Office, 832-286-3404 or Andrea Macejak, SPED Manager of Operations and SPED Update Editor, spedexec@spedweb.com.

We are always looking for articles, piping photos, and CAD graphics. Some of the best articles have been forwarded by SPED Members. We love hearing from you.

3 days. Over 60 sessions. Only 1 place to be.

CADWorx | CAESAR II | PV Elite | TANK

2009 COADE User Conference

With three days of over 60 interactive sessions and roundtable discussions, you will:

…**Learn Best Practices** on how to Maximize COADE Software in your Design Process

…**Preview the Latest Technologies** in the CUC09 Exhibit Hall

…**Network** with your Peers & Industry Leaders

September 28–30, 2009 | Houston, TX ★ USA

New Location for 2009! The Woodlands Waterway Marriott Hotel & Convention Center

www.coadeuserconference.com

SPED Calendar of Events-May—September 2009

Dates & TIme	Day(s)	Location	Cost	Membership
PDS I **Summer 2009 TBA**		TBA	$1195	Members Only
PPD Piper BootCamp **Starting May 26th—July 3rd** **Early Registration Discount**		Online	$1500 $1400	Members Only Registration By May 15th
PPD Process Plant Layout **Starting May 26th—July 3rd** **Early Registration Discount**		Online	$1500 $1400	Members Only Registration By May 15th
Piping Technologies & Products Open House **May 13, 5:30** **RSVP to www.pipingtech.com/rsvp.html**	W	PT&P Houston, TX	FREE	
Intergraph User Conference **June 15-18** **http://www.intergraph2009.com/**	M-TH	Gaylord National Event and Convention Center Washington, DC	$1399 $649	Full Conference Daily Rate
41st Annual ECC Conference **September 9-12** **http://www.ecc-conference.org/**	W-Sat	Hyatt Lost Pines Resort (near Austin) Batrop, TX	$995	Full Conference
2009 COADE User Conference, **September 28-30** **http://www.coadeuserconference.com/2009/**	M-W	Woodway Waterway Marriot Houston, TX	$995 $1195	Registration by July 1st After July 1st
2009 SPED Annual General Business Meeting and Corporate Member Showcase **November 2009**		TBA Houston, TX		

SPED Needs Your Input

You may have noticed that the SPED Calendar has been growing. We want our members to know what opportunities are available for professional development worldwide. Do you know of a Conference or Event that should be added to the SPED Calendar? Do you have an idea for an article or a hot press release?

Please send us an e-mail to the editor, Andrea Macejak, SPED Manager of Operations, at spedexec@spedweb.com with to "SPED Update Editor" in the title. We welcome your suggestions and fresh ideas.

SPED Director's Notes:

William Beazley, PhD

Online Resources for Pipers

http://www.pipingdesign.com/,

Webmaster: Paul Bowers

http://pipingdesigners.com/

Webmaster: Anton Dooley

http://www.azpiping.com/

Webmaster: Tony Tran

http://www.eng-tips.com/threadminder.cfm?pid=378

Webmaster: Unknown

http://www.cheresources.com/indexzz.shtml

Webmaster: Unknown

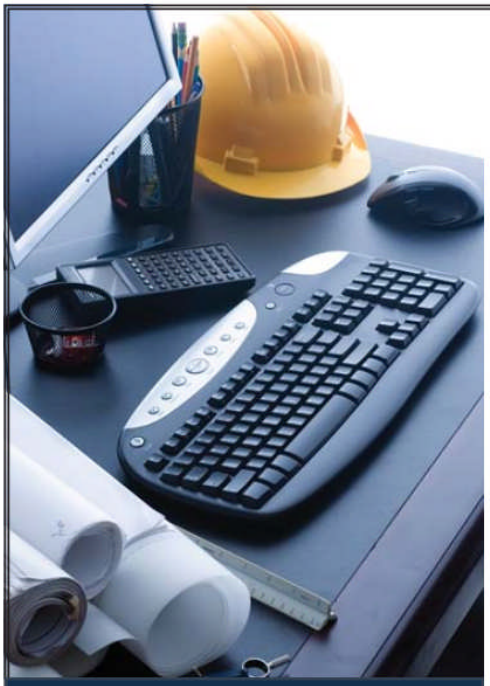
http://pipingguru.wordpress.com/

Webmaster: Unknown

http://www.pipingguide.net/

Webmaster: Ankit Chugh

William Beazley and pipingdesigners.com Webmaster Anton Dooley At Gatwick Airport, London, UK



New project?
Staffing issues?

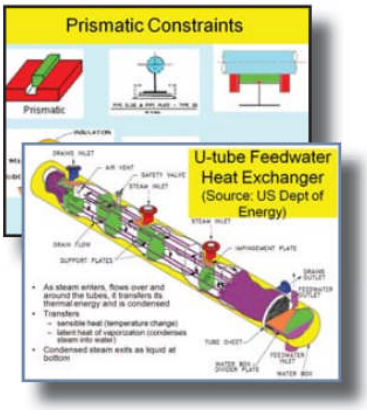
THE SPED PIPER VIDEO SERIES IS YOUR ANSWER.

"It's the Piper's resource for Information and Just-in-Time Training."

PIPER BOOTCAMP covers equipment and fittings necessary for routing pipeline from nozzle to rack to nozzle.

PROCESS PLANT LAYOUT covers knowledge and skills required for plant equipment and layout. Targets pipers already familiar with in-line pipe routing.

Version I contains original video recordings of live presentations by industry leaders.
Version II contains newly recorded videos with additional topics, and extended notes.



Designed for the new Piper and as a useful resource for experienced Pipers, the SPED Piper Video Series is considered the Industry Standard for piping training.

SOCIETY OF PIPING ENGINEERS AND DESIGNERS SPED

For more information, call 832.286.3404 or email videos@spedweb.com