SOCIETY OF PIPING ENGINEERS AND DESIGNERS

SPED Update April 2009

VOLUME 2, ISSUE 4 APRIL 2009

SPECIAL POINTS OF INTEREST:

- **PlantSuccess 2009 Gulf Coast, April 16th, Hilton Houston, Clear Lake , TX**
- **2009 Offshore Technology Conference, May 4-7 Reliant Park, Houston, TX**
- **PT&P Open House, May 13th, Houston, TX**

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Barrier to Entry: What Demographics Say about Piping Design

William Beazley, SPED Executive Director

Much has been made about the reputed 51 year average age of Petroleum Engineers. A similar average age has been attributed to Piping Engineers and Designers. This has resulted from a growing demand for work while enrollments in engineering and technical schools were falling. There are several reasons for this trend that I call the high barrier to entry into the piping profession.

EPC employees have to tolerate the boom and bust character of being a CAPEX (Capital Expenditure) rather than an OPEX (Operational Expenditure) type of professional. According to the National Petroleum Council (NPC), a federally chartered and privately funded advisory committee, "employment in a cyclical industry such as EPC boosts nationally growing individual trends towards concerns over job stability and the long-term employment outlook. Within the EPC environment, cyclicality produces a work experience characterized by alternating periods of heavy utilization and overtime, followed by (sometimes) unpredictable periods of under-utilization and regrettably, lay-offs. While salary and benefits are competitive, the unpredictability is often cited as a negative in terms of career choice, both for EPC and engineering in general. Cyclicality takes an organizational toll as well, driving periods of lay-offs and then hiring cycles, the latter of which can drive up compensation and retention expenses."

Pipers have to know a lot and study and train for years to acquire their knowledge. Piping Engineers usually start with a BSME and Designers with an AAS, then train for years to attain competency. Says NPC, "EPC employers also face the training challenge: the time required to adequately train and engage an entry-level engineer or designer. A new college engineering graduate requires approximately 10 years of experience and training to attain the necessary credentials to provide technical innovation and leadership. Much of the training is accomplished through on-the-job assignments and rotational experience, exposing the employee to different industries, technologies, project complexities and project life-cycle phases. In addition, technical, supervision and general management skills are gained along the way as the employee's eventual career aspirations and progress are attained (e.g., technical or general management, or business development). Designers in EPC typically require a three- to four-year investment, heavily focused on in-house training utilizing design technology."

There are fewer and fewer learning opportunities on today's increasing Front End Engineering Design (FEED) scope of Domestic projects because the detailed engineering has gone offshore. NPC notes that "many veterans of the industry worry that tipping the balance too far will result in a loss of training and apprenticeship opportunity necessary for developing tomorrow's mid-level and senior technical leaders in the USA. The balance today finds technical leadership in the established U.S. and European operations centers leading technical feasibility and design studies with clients, but then submitting final plans and requirements to global execution centers for detailed engineering, detailed design, and other fundamental core basic requirements. However, as the current leadership retires, the innovation and senior technical knowledge is likely to emerge from these current entry-level core design and engineering activities that are being performed by professionals outside of the USA." 3

1. Working Document of the NPC Global Oil and Gas Study, Made Available July 18, 2007, http://www.npc.org/Study_Topic_Papers/23-TTG-Human-Resources.pdf, Assessed 20 March 2009.
2. Ibid.
3. Ibid. Appendix 1: Human Resources Issues Impacting the Engineering and Construction Industry Through the Year 2030, Principal author: Mark Landry, Senior Director, Human Resources, Fluor Corporation

Barrier to Entry: What Demographics Say about Piping Design

The EPC market has changing leadership and always will, which means fresh opportunities for pipers.
William Beazley, SPED Executive Director.

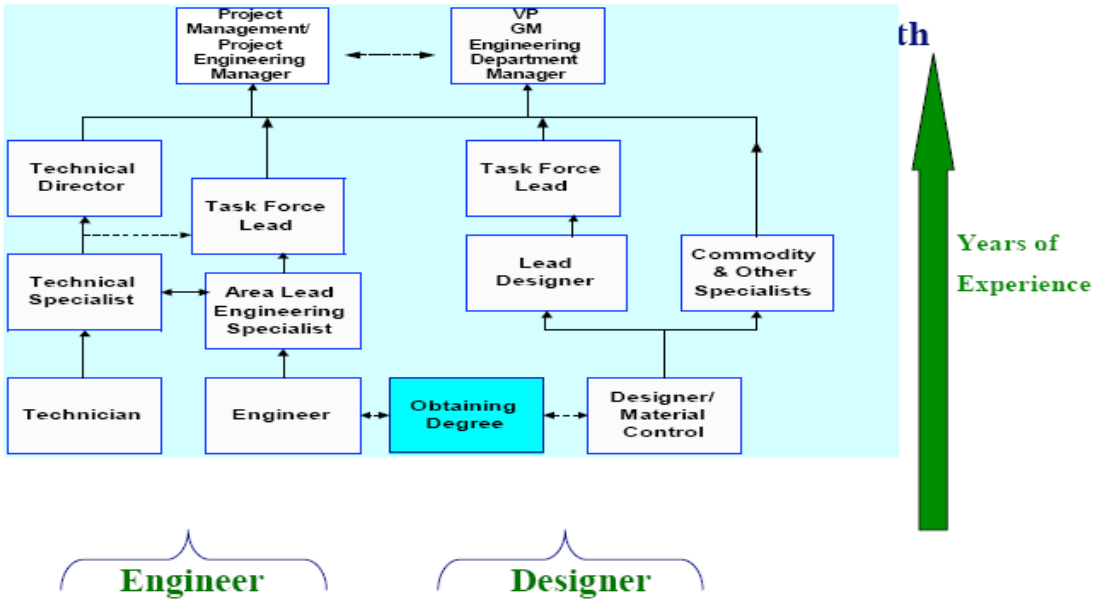


Figure 1Typical engineering or designer career path [Fluor Corporation]. 4

Positives in the Market

Even while the petrochemical market sorts itself out, there are positive forces at work.

The EPC market has changing leadership and always will, which means fresh opportunities for pipers. Even within the Petrochemical industry, there are commodity and specialty products. Commodities are giving way to a host of world competitors vying for market share within the world recession. Specialty chemicals, while affected, offer a more protected franchise at the cost of R&D and increased capital investments. The latter segment is smaller and not for the risk adverse.

But marginal oil, when justified, requires new or developmental processes. Oil shale, for example, usually requires steam injection to reduce viscosity for pumping or other site processes to raise and prepare it for marketing. The larger oil discoveries lie in ultra deep water drilled, produced and offloaded by multi-billion dollar platforms and vessels. Oil prices are currently recovering, driven by a deficit-weakened dollar and the possibility of cycle recovery in consumption.

Finally, there are other infrastructures requiring piping. Consider selected sectors of the recent American Society of Civil Engineers 2009 Infrastructure Report Card Grades (see http://www.asce.org/reportcard/2009/grades.cfm):

DRINKING WATER (D)-America's drinking water systems face an annual shortfall of at least $11 billion to replace aging facilities that are near the end of their useful life and to comply with existing and future federal water regulations. This does not account for growth in the demand for drinking water over the next 20 years. Leaking pipes lose an estimated seven billion gallons of clean drinking water a day.

4. Ibid.

ENERGY (**D+)** Progress has been made in grid reinforcement since 2005 and substantial investment in generation, transmission and distribution is expected over the next two decades. Demand for electricity has grown by 25% since 1990. Public and government opposition and difficulty in the permitting processes are restricting much needed modernization. Projected electric utility investment needs could be as much as $1.5 trillion by 2030.

HAZARDOUS WASTE (**D)** Redevelopment of brownfields sites over the past five years generated an estimated 191,338 new jobs and $408 million annually in extra revenues for localities. In 2008, however, there were 188 U.S. cities with brownfields sites awaiting cleanup and redevelopment. Additionally, federal funding for "Superfund" cleanup of the nation's worst toxic waste sites has declined steadily, dropping to $1.08 billion in 2008, its lowest level since 1986.

SOLID WASTE (**C+)** In 2007, the U.S. produced 254 million tons of solid waste. More than a third was recycled or recovered, representing a seven percent increase since 2000. Per capita generation of waste has remained relatively constant over the last 20 years. Despite those successes, the increasing volume of electronic waste and lack of uniform regulations for disposal creates the potential for high levels of hazardous materials and heavy metals in the nation's landfills, posing a significant threat to public safety.

WASTEWATER (**D-)** Aging systems discharge billions of gallons of untreated wastewater into U.S. surface waters each year. The Environmental Protection Agency estimates that the nation must invest $390 billion over the next 20 years to update or replace existing systems and build new ones to meet increasing demand.

These sectors represent Billions in projects with substantial piping content.

Conclusions

In short, demographics and all other trends favor the prepared Piping Engineer and Designer. By "prepared," I mean those pipers who continue their professional development in a broad spectrum of topics and applications. It is profitable to specialize but always keep your skills up in case the curtain closes on a sector or a technology. The Roman philosopher, dramatist and politician Seneca said, "Luck is what happens when preparation meets opportunity."

Bill Beazley, SPED Executive Director

SPED Corporate Members to Get Monthly Lists of Certified Pipers

The SPED Board of Directors has approved the publication of monthly lists of Professional Piping Designers (PPDs) and current SPED members in good standing. The lists will be sent to all the Corporate Member (CM) points of contact listed on their annual application. Publication of the first list will be May 1, 2009.

PPD Certification is increasingly used as a hiring qualifier for Piping Designers. As a result, many pipers have begun showing SPED PPD Certification and SPED Membership on their resumes. The lists will provide piping managers and HR officials a method of confirming certification and membership directly from SPED.

A comprehensive list of PPD Certified pipers was compiled for the SPED Annual Meeting in November and proved to be highly popular among piping managers. "PPD Certification indicates a certain level of training and commitment to professional development," says Homer Reyes, Sr. Principal Piping Design Supervisor of Foster Wheeler, Houston, TX and SPED Board Member. "I plan to forward my copy of the monthly PPD list directly to Human Resources."

The numbers of PPD Certified Pipers jumped significantly in 2008 due to training for employees of 14 companies with large piper workforces in Houston. The fourteen partners were ABB Lummus (CBI), Aker Kvaerner, Bechtel, Demar, Ltd., Dow Chemical, Foster Wheeler, Gulf Interstate Engineering, J. Ray McDermott, Inc., Mustang Engineering, SBM IMODCO, SNC-Lavalin GDS, Technip USA Inc., Universal Ensco, Inc., and WorleyParsons Group, Inc. A similar program of training has been proposed for 2009.

The new service is free to SPED Corporate Members. SPED CMs also receive a special rate on PPD Certification testing and application fees. SPED CMs may also refer job candidates and employees to SPED's Houston office at any time for immediate PPD Certification testing. "It is now possible for any prospective employee to be immediate assessed against SPED's industry standard body of knowledge," says Bill Beazley, SPED's Executive Director.

The Society of Piping Engineers and Designers is a professional society dedicated to advancing process piping design and engineering. For details on SPED and the services it offers in unison with its network of local workforce development boards, call 832-286-3404 or visit. http://www.spedweb.com.

How to Write a Recession Proof Resume

Managers want educated and certified personnel and if they are deciding between two candidates with experience the one who went the extra mile will be hired, especially when it comes to PPD Certification which verifies skills.

As we watch the market sliding up an down and the price of light sweet crude attempting to stabilize you may want to prepare for the "Just in case scenario" by taking the time to write your recession proof resume. Now you may ask, "what is a recession proof resume?" It is a well written resume that is visually clean and well organized.

First, it is always important to update your resume while you are working. We know that most people procrastinate on this score but use the Boy Scott motto and "Be Prepared." Second, resumes are the first opportunity that a hiring manager has to meet you. Do not underestimate the need to put yourself in the best light.

While screening for the Accelerated Piper Program it amazed us how many people represented themselves poorly when they had the education and experience. We want to save you from ending on the bottom of the pile when these pieces of paper can determine such an important part of your life.

Below are simple tips to keep your resume de-cluttered, fresh, and on the top of the Piping Manager's Pile.

Keep it to one page. Actually, we recommend that if you have **less than five years** experience you follow this rule. If you have **over five years** of experience use two pages but put your recent experience first. It saves time for the hiring manager and if they like you they will read on.

Put your Education and Certifications before Experience. While some managers will scroll to page two to find your education and certifications, we recommend putting it before experience. You earned it and it does show your commitment to your professional development in industry. Managers want educated and certified personnel and if they are deciding between two candidates with experience the one who went the extra mile will be hired, especially when it comes to PPD Certification which verifies skills.

Use the Power of the Keyword. This is perhaps the most important tip. Unfortunately, many companies have a computer algorithm screening your resume. They are looking for a certain percentage of keywords in the resume to qualify yours for moving on to the hiring manager. Keywords allow hiring managers to search quickly for the best candidates. Don't ever lie on your resume by padding but clearly include the important facts. If you drew vessels and placed pipe supports, then say it. Tell your story by describing what skills you have demonstrated to your former employer.

Buy a resume writer. Some programs are as little as $20 USD. We recommend this simply because they have excellent templates that can help you organize your resume visually. Piping Managers are visual so they want a readable resume that gets to the point.

Use the KISS Method. We would like to change this to KISSP—"Keep It Simple Smart Person." Keep your organization visually simple and by that we mean "readable." Organize your resume visually by bolding your title, company and dates of employment. You save the manager's time and they can see and scroll to what they are hiring for. Don't forget to use keywords to emphasize your skills.

Proof. Proof. Proof. Edit your resume. If you cannot spell, get help from a friend or resume writing service. Spell all of your Piping Terms correctly. While none of us are perfect, you have to appear to be. I have discarded resumes when I was hiring for the lack of periods by someone who said that they were detail oriented. Don't be perceived as lazy. This is your calling card. Look your best.

Write a solid objective. While most manager's skip your objective in the first perusal they usually look later. Unless you write a cover letter, the objective tells them why you want the job and what your long term goals are. Use that "KISSP" method by using active verbs that are charged with description. Even if you are tempted to leave this out, don't. If you are submitting your resume online this may match their keyword search and get you on the manager's desk.

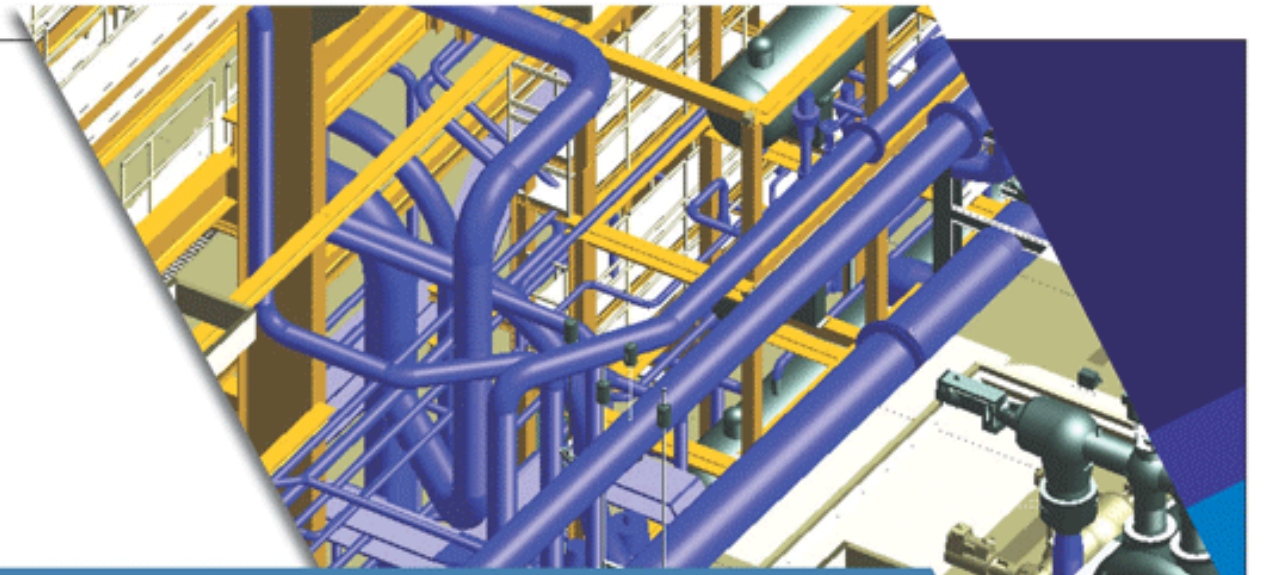
Don't use the first person. While it is appropriate for your cover letter and objective, it shows poor business knowledge if you say," I used AutoCAD to draw P & ID's for blank project." Instead write it using an active verb such as "Demonstrated mastery of AutoCAD to create P & ID's for blank project."

Here is a list of strong active verbs that can help you tell your story:

Demonstrated	Articulated	Selected	Screened	Proofed	Analyzed
Developed	Launched	Managed	Organized	Evaluated	Reviewed

For a great list of active verbs go to: Write Express at http://www.writeexpress.com/action-verbs.html.

Andrea Macejak, SPED Manager of Operations



Delivering the Future...

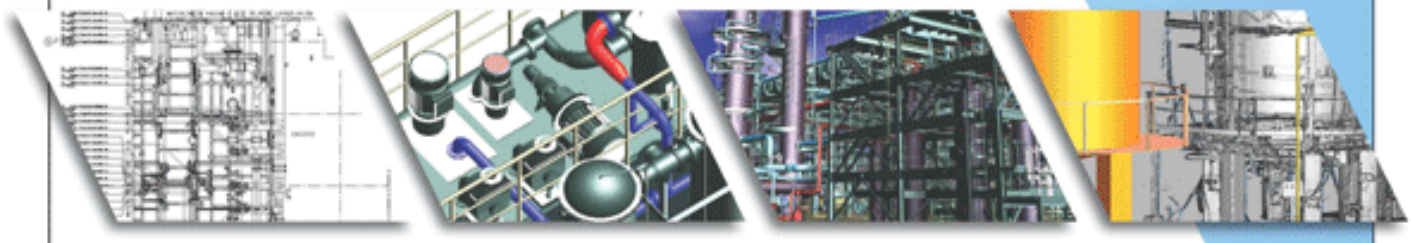
AVEVA PDMS - the world's first, and still the best, piping solution. Automatic pipe routing, interactive graphical design tools and powerful integrity and design checking functions enable rapid, accurate piping design.

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

Technip awarded by ConocoPhillips Skandinavia AS lump sum contract for Ekofisk VA subsea water injection project located in block 2/4 on the Norwegian Continental Shelf. This contract provides for installation, tie-in and commissioning of subsea facilities between the existing Ekofisk facilities and a new eight well subsea injection template (2/4VA).

Shaw Renews Fleetwide Nuclear Maintenance Contract with Entergy—April 3, 2009, Shaw Group's Maintenance Division of its Power Group has renewed its existing contract with Entergy Nuclear, a subsidiary of Entergy Corporation, to provide nuclear maintenance services to 11 nuclear units at nine power stations.

Aker Solutions Awarded Upgrading Contract for the Heidrun Platform—April 3, 2009, StatoilHydro awards Aker Solutions an engineering, procurement, construction and installation (EPCI) contract at Heidrun. The object of the Heidrun Production Pipeline project is to facilitate increased gas capacity production. Detail design and procurement activities will be performed at Aker Solutions regional office in Trondheim, Norway.

Shaw Wins Maintenance Contract with Marathon's Texas Refining Division—April 2, 2009, Shaw Group's Maintenance Division of its Power Group awarded maintenance, small capital construction, turnaround support and speciality services contract by Marathon Oil Corporation for its Texas Refining Division, located in Texas City, Texas.

Foster Wheeler Signs License Agreement for Advanced Pulverized-Coal Technology in India—April 1, 2009, Foster Wheeler AG's subsidiary of its Global Power Group enters into 20-year agreement with BGR Boilers Private Limited, an affiliate of BGR Energy Systems Limited, to provide an advanced technology license for wall-fired subcritical and supercritical pulverized-coal steam generators to be sold in India.

Refiners Face More Pain—Analysts—April 1, 2009, Oil refiners will face leaner margins over the next two years as weak demand causes a buildup of excess refining capacity, analysts said Wednesday.

"We have a bearish outlook for 2009 on the European refining sector," UBS analysts said in a report. "We have a very negative outlook for refining margins and believe that the market isn't pricing in significantly lower margins."

Poor economics, coupled with a raft of new refineries set to come online in Asia, prompted several banks this week to trim their forecasts for refining margins - or the difference between what refiners pay for crude and the price of the products they sell. (Lananh Nguyen, Dow Jones Newswires)

Siemens, Gazpron Seek Natural Gas Deal—March 30, 2009, A Siemens Corp. official says the company wants to partner with Russian natural gas monopoly Gazprom to produce liquefied natural gas.

The German company's vice president, Dietrich Moeller, told Gazprom's corporate magazine that Siemens hopes a partnership could begin with the Shtokman offshore gas field in the Arctic, ITAR-Tass reported Saturday. (United Press International)

Shaw Awarded Contract to Continue Work on Sonatrach LPG Recovery Facility in Algeria—Baton Rouge, LA—March 25, 2009, The Shaw Group Inc. (NYSE: SGR) today announced its Energy & Chemicals Group has been selected to provide engineering services for Sonatrach's planned 24 million standard cubic meters per day grassroots liquefied petroleum gas (LPG) recovery facility in Algeria. The facility, located near Hassi Messaoud, is expected to be completed in the first half of 2012. Shaw performed the front end engineering design (FEED) work and will be a subcontractor to Saipem S.p.A. for this subsequent phase. (www.shawgrp.com)

Fluor Announces Cancellation of Kuwaiti Refinery Contract—March 20, 2009, Fluor Corporation receives notification from Kuwait National Petroleum Company (KNPC) to stop work on utilities and offsites for the al-Zour refinery. Fluor has approximately 300 employees performing engineering work on the project.

Technip Awarded Installation Contract for Ekofisk VA Subsea Water Injection Project at the Ekofisk Field in Norway—March 20, 2009, Technip awarded by ConocoPhillips Skandinavia AS lump sum contract for Ekofisk VA subsea water injection project located in block 2/4 on the Norwegian Continental Shelf. This contract provides for installation, tie-in and commissioning of subsea facilities between the existing Ekofisk facilities and a new eight well subsea injection template (2/4VA).

KBR Awarded FEED Contract for Ammonium Nitrate Plant at Petrochemical Complex by Egypt Hydrocarbon Corporation, March 25, 2009, KBR awarded contract by Egypt Hydrocarbon Corporation (EHC) to complete a Front End Engineering Design (FEED) project for an ammonium nitrate plant being developed by Carbon Holdings at its proposed Petrochemical Complex. The complex will be located 25 km (15.5 miles) from Suez, Egypt, near the Red Sea.

20CC Proposes SPED Secretariat Role for Europe

20CC Ltd has proposed to serve as SPED Secretariat for Europe. The 20CC Proposal includes the promotion of SPED in Europe and support of Member Services where English is the language of Engineering. The Managing Director of 20CC, Norman Harris, is widely known throughout Europe for his work in the Process Design Industry.

Harris presented his proposal to the March 27 Meeting of the SPED Board of Directors. The proposal was well received and negotiations have begun to hammer out the final details.

Left to right: Bill Beazley, IAI and SPED Executive Director, Paul Cesak, Enterprise Management Technologies, Inc. and SPED Director, Norman Harris, 20 CC, Jack Belden, SNC-LAVALIN Engineers and Constructors and SPED President, Homer Reyes, Foster Wheeler and SPED Director

20CC is already working jointly with SPED to offer its Piping Design Courses in the UK. Each course would include the appropriate SPED accreditation as Certified Professional Piping Designers.

Norman Harris and Bill Beazley have also called on the Engineering and Construction Industry Training Board (ECITB) to offer SPED's cooperation on their training efforts for Piping Designers. "SPED hopes that all ECITB Graduates will meet the requirements of our Professional Piping Designer Certification," says Bill Beazley.

Harris expects strong growth in PPD Certification in Europe. "Our feedback from UK Piping Managers is that Accreditation is an attractive benefit of structured training," says Harris. "The most encouraging area for revenue generation is the accreditation of engineers prior to their employment."

"For SPED PPD Exams, 20CC would act as proctor (in UK Invigilator is the usual term)." Adds Harris, "this involves delivering the exam papers, checking the identity of the engineer(s) concerned, seeing the paper is completed without illegal help and then either dispatching to Houston by data post or marking if authorised. The results would then be sent to SPED and if authorised to the engineer."

20CC is planning to promote SPED Membership using their own contacts and those of several other service companies to the Piping Industry aware of SPED's mission and goals. It is estimated that there may be as many of 19,000 pipers throughout the world and many of those practice in Europe.

For more information on 20CC, contact:

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AVEVA Extends AVEVA NET Portal Further in Plant Operations

"Based on customer feedback we're seeing a greater sense of urgency towards integrated operations, the ability to use information across the business, reducing risk and helping plants remain safe and meet regulatory compliance."...commented Dave Coppin, Executive Vice President, AVEVA NET Solutions.

Collaboration, Security and Usability Basis of key Update

Cambridge, UK - 23 March 2009: AVEVA (LSE: AVV) today announced the immediate availability of the latest release of AVEVA NET Portal. This significant update responds to direct customer feedback by incorporating features that improve the collaboration, security and usability of the product, further closing the gap between disparate systems and the need for an 'integrated operations' working environment.

AVEVA NET Portal, an integral part of AVEVA NET, the web-based, information management solution already trusted by customers worldwide, now benefits from tools that enhance collaboration yielding time and cost savings by breaking down the 'silos' that have traditionally developed across different systems within plant operating environments.

This has been achieved by adding universal markup capability for all 2D and 3D documents managed by the system. These comments can be used, for example, in the creation of maintenance work packs to indicate areas or items requiring physical inspection for safety checks. Mark ups are associated with the original document and stored within the central database becoming accessible to those granted access to them.

"Based on customer feedback we're seeing a greater sense of urgency towards integrated operations, the ability to use information across the business, reducing risk and helping plants remain safe and meet regulatory compliance. By making data available wherever and whenever it is required, regardless of which programs created the data in the first place, AVEVA NET helps meet this imperative," commented Dave Coppin, Executive Vice President, AVEVA NET Solutions.

Derek Middlemas, Group Operations Director at AVEVA, commented: "AVEVA NET fits closely with our customers' requirement for 'integrated operations'; where information is made available, and the tools are always there to view it, share it, collaborate on it and add value to it, so that risk is greatly reduced. This is a huge issue in an industry where the emphasis on safety and accountability is growing every day."

For further information on AVEVA NET Portal 3.6 please contact your nearest AVEVA office or view the product pages at AVEVA NET Portal

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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 http://www.aveva.com// or www.aveva.com/ednotes

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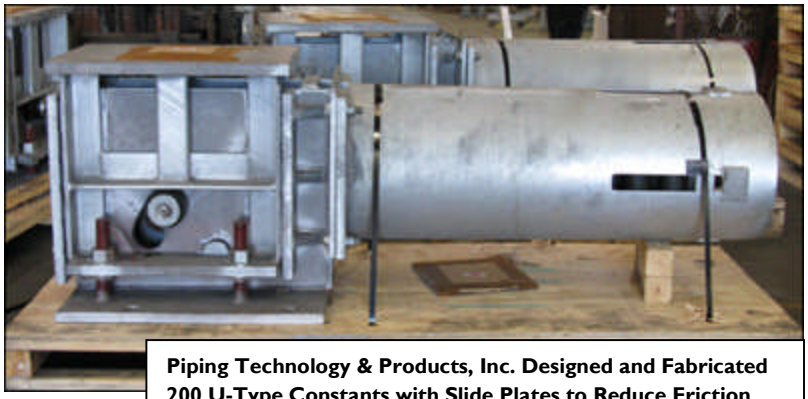
Piping Technology & Products Hosts SPED Member Open House



Piping Technology & Products, Inc. Designed and Fabricated 200 U-Type Constants with Slide Plates to Reduce Friction
(PT&P Ref#100153-B2, ME) 3/25/09

Piping Technology & Products, Inc. (PT&P) and SPED, welcome you to an open house at the PT&P headquarters in Houston, Texas. 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 ranging from pipe hangers, expansion joints, pre-insulated supports, and spring supports to vessels and shock and vibration controls. Please join us on Wednesday, May 13, 2009 to tour our fabrication facility and discover a wealth of information including pipe support engineering and design, support applications, and finite element analysis. Pipe support engineers, expansion joint specialists and other experts will be available to answer any questions that you may have concerning pipe support engineering and design. We will be giving away lots of great prizes and you will have additional opportunities to win while playing pipe support themed games and activities. Complimentary dinner will be served to all guests following your shop tour and a special bonus gift will be awarded to all SPED members with proof of membership. We welcome you to bring a guest to participate in this unique opportunity. Non-SPED members brought as guests will have an opportunity to join SPED; the SPED Manager of Operations will be present to receive membership applications. We hope that you will join us as we look forward to meeting you and proudly sharing our facility.

RSVP online to www.pipingtech.com/rsvp.html.

Iv-Oil & Gas Expands Use of Intergraph® SmartPlant® Enterprise Solutions Set

ADDITIONAL CAPABILITIES ALLOW FIRM TO BE MORE PRODUCTIVE AND REDUCE COSTS THROUGHOUT THE COMPLETE EPC CYCLE

"We are always pleased when our customers realize the benefits of integrating our SmartPlant Enterprise solutions and how it helps boost productivity and accelerate projects." Gerhard Sallinger, Intergraph Process, Power & Marine President

HUNTSVILLE, Ala., March 25, 2009 – Iv-Oil & Gas B.V., a Dutch multidisciplinary engineering, procurement and construction (EPC) company, has expanded its use of Intergraph® SmartPlant® Enterprise solutions to further increase productivity and cost savings throughout the design, engineering, purchasing and construction cycle for its onshore and offshore oil and gas projects.

A SmartPlant Enterprise user since 2002, Iv-Oil & Gas has already experienced productivity gains and the ability to accelerate projects using Intergraph's next-generation 3D modeling and visualization, instrumentation, and electrical design software solutions. Now, by easily integrating its existing solutions with SmartPlant Materials and SmartPlant Reference Data, the EPC will be positioned to manage project materials and reduce costs for its customers' capital intensive oil and gas projects from preliminary design through detail engineering and purchasing to construction.

"SmartPlant Enterprise has already shown significant increases in productivity. We expect SmartPlant Materials to enable Iv-Oil & Gas to provide procurement and material specifications information in a faster, more accurate and efficient way providing us with another boost to our efficiency," said Wim Bal, general manager of Iv-Oil & Gas. "We, as well as our project partners, vendors, suppliers and construction companies, will benefit throughout the procurement and materials management processes."

Gerhard Sallinger, Intergraph Process, Power & Marine President, said, "We are always pleased when our customers realize the benefits of integrating our SmartPlant Enterprise solutions and how it helps boost productivity and accelerate projects. With SmartPlant Materials and SmartPlant Reference Data, Iv-Oil & Gas can now integrate its engineering enterprise with its supply chain enterprise, ensuring that what engineering designs is what procurement acquires and construction builds."

SmartPlant Materials handles bills of material and requisitions, procurement and supply chain functions, fabrication tracking and site tasks including receiving, warehousing and construction material planning. It allows customers to share materials data with design and line-of-business systems, clients, contractors and suppliers. It also can reduce engineering hours up to 15 percent, restrict surplus materials to less than one percent and reduce total installation cost up to three percent.

SmartPlant Reference Data is a pre-configured solution that eliminates the need for customers to re-enter the same standard reference data. Intergraph has built a standard database for SmartPlant Reference Data that delivers a comprehensive range of commodity codes that can be used to uniquely describe materials throughout a project life cycle. The standard database employs sophisticated and exhaustive rules to maintain material descriptions, and is delivered configured to support 90 piping component definitions according to U.S. standards (ASME/ANSI, ASTM, and API). The content of these 90 piping components includes more than 10,000 commodity codes and more than one million individual parts with full dimensional data, including weights.

Iv-Oil & Gas offers a full range of engineering services tailored to the needs of its oil and gas clients including process, mechanical, structural, electrical, instrumentation, piping design, piping engineering and procurement expertise.

For more information, visit www.intergraph.com.

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SPED Online Training Pilot Test Initiated

SPED has begun pilot testing of a new, online training capability for its PPD BootCamp and Process Plant Layout courses. 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 at an introductory price of $1200 for each course during the pilot.

SPED has developed the PPD BootCamp and Process Plant Layout courses over that last 20 years to support piping designer professional development. Over 1,000 pipers have attended the Process Plant Layout course and over 200 have received the PPD BootCamp content. 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. Members access the courses through a normal web browser. Once enrolled, they can download notes, view video lectures and take quizzes designed to prepare for PPD tests. "This new capability will help the many pipers who can't attend Houston classes because of their job demands and work location," says Andrea C. Macejak, SPED Manager of Operations.

Course Topics:

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

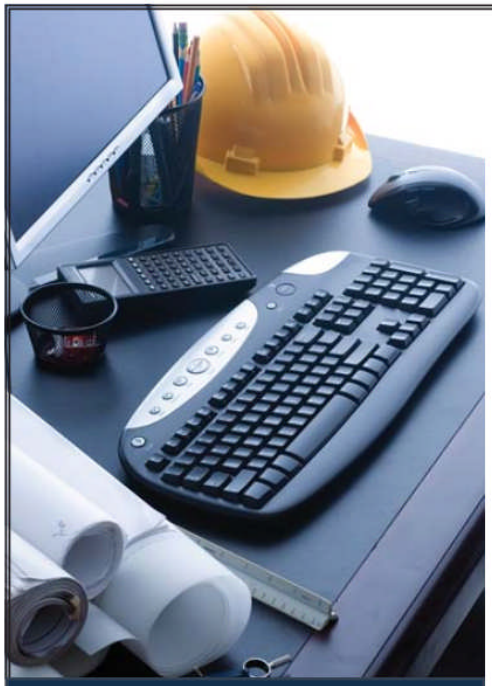
Process Plant Layout

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 Calendar of Events-April—May 2009

Date	Day(s)	Time	Location	Cost	Membership
PDS I **Dates: Spring 2009 TBA**			TBA	$1195	Members Only
PPD Piper BootCamp Pilot **Dates: Starting April 13 (10 Week Course)**			Online	$1200	Members Only Introductory Price
PPD Process Plant Layout Pilot **Dates: Starting April 13 (10 Week Course)**			Online	$1200	Members Only Introductory Price
PlantSuccess 2009 Gulf Coast, April 16th **http://www.plantsuccess.com/**	TH		Hilton Houston NASA Clear Lake		
2009 Offshore Technology Conference, May 4-7 **http://www.otcnet.org/2009/**	M-TH		Reliant Park Houston, TX		
Piping Technologies & Products Open House, May 13					
2009 SPED Annual General Business Meeting and Corporate Member Showcase **November 2009**			TBA		



New project?
Staffing issues?

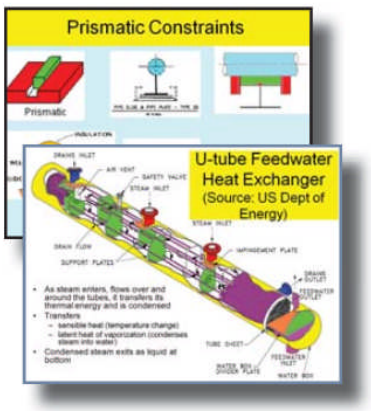
THE SPED PIPER VIDEO SERIES IS YOUR ANSWER.

"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

SPED Board of Directors Highlight: Homer K. Reyes, Foster Wheeler

Homer Reyes, born and raised in Pasadena, Texas, became interested in piping drafting and design during high school while taking an industrial drafting class. After completing high school, he attended college while still working as a draftsman after classes. Homer launched his piping design career by attending SIP's Piping School in 1978.

After working at many of the plants on the Gulf Coast he joined Fish Engineering and embarked on the supervisory portion of his career in 1988. In 1991 he was asked to join Litwin E & C and was introduced to PDS and subsequently supervised several 3D projects. Some years later he joined CDI Engineering and became Regional Piping Manager. During that time, he was introduced to PDMS as well as laser scanning technology. Homer was active in incorporating laser scanning as an integral part of the piping design group at CDI.

Today he is employed by Foster Wheeler Corporation and has taken on multiple tasks inside the company. He has just completed his 31st year in the field of piping design and looks forward to continuing his long and successful career there. Homer Reyes was elected to the SPED Board of Directors at the 2008 Annual General Business Meeting and has already been lauded for his fresh perspective and innovative contributions to the SPED Board.

Homer Reyes, Foster Wheeler and SPED Board Director

PlantSuccess 2009 Gulf Coast

Over ten years and 20 conferences, PlantSuccess has built an enviable reputation for conferences dedicated to improving performance of oil & gas and chemicals manufacturing around the world.

Since Philadelphia in 1999, Houston in 2002 and Calgary in 2007, PlantSuccess has attracted executives with leaders in the Process Industry as speakers and attendees and leading software and service providers as Solution Partners. We have recruited 300+ speakers from 150+ different companies: 75 percent represent owner-operators with 90 percent executives and other decision makers. The attendee makeup is comparable. Topics always important to improving plant operations and company performance include: operational excellence, innovation, sustainability, MOC, PSM, security, reliability and maintenance, asset management, human capital management, leadership, collaboration, etc. An engaging Q&A completes every session.

One of our speakers, John Voeller, ASME White House Fellow and CTO, CKO, SVP, Black & Veatch, has captured the environment in this testimonial:

> *"PlantSuccess, a group that is well known for attracting executives and other decision makers with leaders in Oil & Gas and Chemicals manufacturing, has met each year for the past decade for a series of presentations and small, private conversations about major issues with the highest candor possible with a group of competitors in the same room."*

Principal Speakers companies represented include: ***Honeywell Specialty Materials, University of Texas Energy Institute, Bayer MaterialScience, LLC , AVEVA Inc, Comos, Phase 5 Group Inc, Wonderware Mobile Solutions, AURA, LLC, DuPont Sabine River WorksVv, AMEC Paragon, The Dow Chemical Company, LyondellBasell Houston Refining, Mosaic Fertilizer, LLC.***

For more information regarding the agenda http://www.plantsuccess.com/.