



PipingDesignCentral <pipingdesigner@gmail.com>

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## April 2020 SPED Update

1 message

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**SPED** <mailchimp@spedweb.com>  
Reply-To: SPED <mailchimp@spedweb.com>  
To: paul.bowers.montreal@gmail.com

Mon, Apr 20, 2020 at 5:31 AM

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# Society of Piping Engineers and Designers April 2020 SPED Update Newsletter

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**Hello again SPED members and friends of SPED!**

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### New Members and Renewals

Steve Hill  
Gary Sanders  
Shane Krill  
Dan Jerry Cortes  
Senthilkumar Ramaswamy  
Gregory Robinson  
Eniko Joo  
Richard Rice  
Alaa Eltamy

**C & I Engineering (Corporate)**

### PPD Exams

Alaa Eltamy  
Mohamed Ewis Ahmed

Joseph Mickins  
Elvis Bob Bechiro  
Mahmoud Mohamed Sami Salem Hassan

## **PPD Certification Achieved**

Mohamed Ayman Awad L1  
Khaled El-Gohary L1

## **New PBC and PPL Students**

Gary Sanders

Dear SPED Member,

SPED has been watching closely the developments over the last few months on the Coronavirus and the oil price war. We held a Town Hall meeting Saturday, April 4, 2020 to discuss it. Here is our general advice to our members:

**Obey all Stay-at-Home or Quarantine orders.** Absent a treatment, cure, or vaccine, this is the best way for you to protect yourself, family, friends and neighbors.

**Levels of business vary across industry and clients.** Some have closed offices with little prospect of quick re-opening. Others are busy finishing projects that are too expensive to suspend or halt. Others, like pharmaceuticals, have little change and are short of pipers.

**Pipers with online and remote capabilities are still productive.** Many employers continue working through CITRIX virtual desktops or send company hardware home and use Virtual Private Networks (VPNs). Piper's inherent computer and online work methods and strong home internet access are an advantage now.

**If you are laid off, file immediately for unemployment benefits.** Because the recession is government-ordered, most governments have special benefits available. There is no shame in collecting these benefits. Besides, being laid-off is part of being a piper.

**Ask your employer to continue office and software privileges while furloughed or laid-off.** This will give you access to email, CAD

software and other applications, allowing you to practice your skills and remain employable.

**If you are ready to advance your PPD Level, do it now.** If you are asked what you did during a gap in employment, it helps to say you took a course and/or got certified. That makes you look productive. Your local unemployment benefits office might pay for it, so check it out.

### Dear SPED Member,

Below please see official course bundle we are offering to all SPED members.

Special COVID-19 Home Study Pricing for April and May 2020

SPED recognizes that most of our members are under stay-at-home orders. We must work and study away from employers. For the rest of April and May, SPED is offering a bundle price for its two online courses. For the price of the course (membership required), both the course and PPD Certification Testing and application is included. This is a US\$250 savings.

We hope this helps utilize the time productively. Please stay safe!

For more information contact [catherine\\_van\\_der\\_walt@spedweb.com](mailto:catherine_van_der_walt@spedweb.com) to take advantage of this incredible offer!

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## Quick Check on Piping Flexibility

Peng Engineering

<http://www.pipestress.com/technical-papers/QuickFlex.pdf>

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## Comment from Robert Nardei on Piping Isometric Legibility

One of the things I do remember is the legibility issue since CAD iso's became the norm. it was among my greatest pet peeves. I used to say, "I would not have passed my high school drafting class with such small

print and so many lines crossing each other.” (of course when I took drafting in high school, it was still pencil and paper)

I suppose nowadays, if a person was viewing the iso on a device, they could zoom in, but on paper, my drafters probably got slowed down by at least 50% when preparing spool drawings from CAD iso's vs manual iso's.

Now you've got me going...it seems to me that there is a difference between CAD iso's drafted "by hand" on the computer vs CAD iso's automatically generated from a model. Those ones generated directly from a model caused the most problems to read, mostly because of small print and too much information condensed in too small a space. You could tell which iso's had someone spend time to "clean up". Of course, by doing that, the productivity benefit from buying that expensive drafting software was reduced.

Really, with substandard drawings, the creator of the iso's may have achieved productivity if they didn't spend too much time "cleaning up", but what they were really doing was downloading the productivity handicap to those down the food chain. If the drawing is not readable, it slows down the users of the drawings and promotes errors.

Robert is president of <http://nardei.ca/>

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## Updated BP Texas City Animation on the 15th Anniversary of the Explosion

<https://www.youtube.com/watch?v=goSEyGNfiPM&feature=youtu.be>

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## Cold Spring of Restrained Piping System

Peng Engineering

<http://www.pipestress.com/technical-papers/ColdSpring.pdf><http://www.pipestress.com/technical-papers/ColdSpring.pdf>

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## Plate Heat Exchanger Maintenance

This type of exchanger is not quite so common in the petrochemical industry and it does have some unique qualities, advantages and quirks

<https://www.youtube.com/watch?v=01ounLDZANA>

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## **Piping Design Part 5 Installation and Cleaning**

[http://www.wmhuittco.com/images/Article\\_5\\_Piping\\_Design\\_Part\\_5\\_Installation\\_and\\_Cleaning.pdf](http://www.wmhuittco.com/images/Article_5_Piping_Design_Part_5_Installation_and_Cleaning.pdf)

W. M. (Bill) Huitt

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## **Progress in the PPD Level II Course on Piping Assurance**

The first public presentations of the new PPD Level II Course on Piping Assurance in Louisville, KY in February. The presentations were sponsored by C&I Engineering and the SPED Louisville Chapter. The Course is being developed by the PPD Advisory Committee with the initiative Chaired by Past SPED President, Ron Waldon, PPD IV.

Currently the course has 24 presentations divided into 5 Parts:

- Part I – Global Considerations
- Part II – Process control and equipment design
- Part III – Piping routing document studies
- Part IV – Field Work
- Part V – Specialty Piping Systems

Six presentations were selected for the two-day lunch and learn:

- Layout Check Management
- Piping Fabrication Isometrics Assurance
- General Arrangement Assurance
- Pipe Routing and Assurance
- Pipe Model Cross Check
- Pipe Specification Use and Assurance

All six presentation were from Part III – Piping routing document studies

C&I is one of the Corporate Members who volunteered as a reviewer of the course. The C&I review is overseen by Nathan Mayberry, P.E.

Chief Plant Design Engineer. The PPDAC is conducting the review under a set of guidelines approved by the SPED Board.

The presentations were made by William G. Beazley, SPED Executive Director, who prepared the first draft. “This course focuses on the checking processes used in today’s model-based piping design,” said Dr. Beazley. “It emphasizes the importance of thorough checking of Design Data, such as piping specs and Sub-Models, such as Equipment Models. It also recognizes the key role of field data and P&IDs play in piping layout.”

Early reviews introduced ideas from several existing checklists for P&IDs, Piping Layouts, and Isometrics. “Checklists will remain an essential tool for reminding pipers of the vast array of details to check,” said PPDAC Review Chairman Ron Waldon. “It lets pipers find and correct errors long before their designs are submitted for review.”

The draft course is now headed for a fast track review by the PPDAC. PPDAC Members (exclusively PPD IV pipers) are being contacted now for their interest in course topics. For more information, contact:  
Ron Waldon, [rwaldon@gmail.com](mailto:rwaldon@gmail.com)

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## Piping Design for Potentially Lethal Chemicals

[http://www.wmhuitco.com/images/Piping\\_Design\\_for\\_Potentially\\_Lethal\\_Chemicals\\_WS.pdf](http://www.wmhuitco.com/images/Piping_Design_for_Potentially_Lethal_Chemicals_WS.pdf)

W. M. (Bill) Huitt

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## SPED Income and How it is Spent

*SPED is a tax-exempt non-profit entity under section 501(c)(3) of the Internal Revenue Code of United States of America.*

From time to time, members ask, “why does SPED charge what it does for courses and dues? What don’t we charge less in poorer countries? What does SPED do with all that money?” These are all good questions and worth an answer.

About half of SPED’s income comes from courses. The remainder is evenly divided between member dues and certification fees. Corporate membership makes up the majority of member dues collected.

The course pricing today barely covers SPED’s direct and overhead costs of each course. Although priced low for 23 hours of video instruction plus notes, it represents a one-of-a-kind boost to a piper’s

career. Some have estimated that completion of PPD Level I certification is worth a year's experience on the job. While part of the cost is Learning Management System hosting, IT support and administrative overhead are the highest expense. Despite the expense, SPED regards the SPED Courses as a service to the piping profession in line with society mission.

The PPD Level advance represents a similar situation. Both courses and certification advance fees support course hosting, IT administration, corporate overhead, course development and PPD Promotion. Pipers give us this money to maintain and raise the perceived value of certification, making our certified pipers more employable. Importantly, its self-support allows SPED to fund our chapter dues reimbursement program, which is unusual among professional societies.

Note that our prices are set to arise again, when the improvements made under the PPD Level II Course are fully implemented. Our courses are still much less than comparable courses in other societies.

All that being said, SPED discounts online courses and advance fees to Corporate members, reflecting the contribution made by their membership dues and larger numbers enrolled. No matter what discount SPED offers, it cannot let the price fall below our costs.

What can chapters do? I've long been an advocate of chapters conducting PPD Test Reviews and other professional development. If a chapter could sponsor a PPD Level I review, with a larger number of candidates for certification, a discount could be considered and/or a refund of a portion of the enrolment to the chapter for local activities. This would grow the chapter and increase the employability of the members.

I hope this answers some our members' questions and we thank you for your support of SPED.

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## **Standards for the Pharmaceutical Industry**

[http://www.wmhuittco.com/images/Standards\\_for\\_the\\_Pharmaceutical\\_Industry.pdf](http://www.wmhuittco.com/images/Standards_for_the_Pharmaceutical_Industry.pdf)

**W. M. (Bill) Huitt**

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# Piping Design for Hazardous Fluids

[http://www.wmhuittco.com/images/Piping\\_Design\\_for\\_Hazardous\\_Fluids\\_2C\\_Rev\\_A.pdf](http://www.wmhuittco.com/images/Piping_Design_for_Hazardous_Fluids_2C_Rev_A.pdf)

**W. M. (Bill) Huitt**

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**Flexicraft is your one call for every style of expansion joint and flexible connector.**



Don't forget that SPED is always on the lookout for member-written piping-related articles to publish at the website

**See you all next time and stay safe!**

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