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## October 2021 SPED Update

1 message

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Thu, Oct 21, 2021 at 6:28 AM



## Society of Piping Engineers and Designers

### October 2021 SPED Update



### Membership News

#### New Members and Renewals

Waleed Abd El-Hady  
Alberto Testoni  
Murtadha Aluqaily  
Shanmugasundaram Subramanian  
Edsel Barba Rodriguez  
Mohamed AbdElkader

Thomas Carangian  
Adrian Cartis  
Houssam Benchakroun

### PPD Certification Achieved

Olga Zhuravlyova L2  
Colin Brenner L2  
Mohammad Shoeb Mohamed Aktar Lacewala L1

### PPD Certification Enrolments

Mahmoud Ali Ahmed PPD 1&2  
Shehab Mohamed AbdElkader Mansour PPD 1

### Piper Boot Camp and Process Plant Layout Enrolments

Jean Paul Kliebert SPED Bundle  
Adrian Cartis PBC Part 3

## **SPED AGBM is 13 November!**

Attend the online (Zoom) Annual General Business Meeting and chat live online with other SPED members and board of directors executives on Saturday, 13 November 2021 at 10AM Eastern Standard Time. Participants are limited, so if you are a SPED member interested in attending, contact:

[catherine\\_van\\_der\\_walt@spedweb.com](mailto:catherine_van_der_walt@spedweb.com)

The membership will be voting on changes to the SPED Bylaws, [SEE HERE](#) for the document in preparation for the vote.

## **SPED Egypt AGBM is 06 November!**

**SPED Annual Conference 2021 | Role of Industrial Piping In Egypt Vision 2030**

Discussion & Insights:

- Role of Engineers and Designers
- Valve Engineering & Sealing Technologies
- New Technologies in Plant Visualization
- Research in Pipe Stress. Analysis and Advanced Materials
- Bridging the Gap between Education and Business Demands

Registration: <https://forms.office.com/r/95ru4q1TMC>

[info@spedegypt.com](mailto:info@spedegypt.com)

## **Interoperability in Construction – Mission Impossible?**

*"Builders start to use drawings for communication and that allowed for the first wave of specialization in the profession. Schools of architecture, engineering and construction management have specialized, and subspecialized, not to mention the specialization of the engineers, architects and all other professions that are now involved in the life cycle of a building product. Their tools – in terms of mathematics, physics, and other kinds of knowledge - have specialized as well, but, in the end, they have all contributed to documentation on paper that everyone knew how to read or view."*

<https://www.sciencedirect.com/science/article/pii/S2666165920300144>

## **What is the Reason for the High Cost of AutoCAD?**

The title of this article looked promising but it seemed to be an overly repetitive, sometimes incomprehensible word salad, perhaps written in one language, translated to Klingon and then to English. There may also be some category errors in there as well but reading it again would give me a headache.

Give it a shot and see if you can get something out of it.

<http://titilbit.com/what-is-the-reason-for-the-high-cost-of-autocad/>

## **Prevu3D - Mesh from Point Clouds**

If you are familiar with point clouds, you understand how laggy they can make your computer even if you have a high-performance machine. This solution generates a mesh from multiple point cloud scans making navigation surprisingly fast. It has other useful features as well.

<https://www.prevu3d.com/software/>

## **CAD's Problem with Fonts**

*"There's an ancient history that sets standards for typography, which poses problems for the CAD world. When it comes to sizing characters, what is important is the distance from line to line, and not the size of the uppercase letters. In laying out text for printing, the lengths of columns need to be maintained, no matter which typeface is used. In fact, font designers can make the size of uppercase letters any height they wish."*

<https://upfrontezine.substack.com/p/upfrontezine-1106-cads-problem-with>

## **Free to SPED Members - High Purity Piping Module**

The SPED Board has released its new module on High Purity Piping. The module is free to SPED members. High-Purity piping is important in many industries, including:

- Food, Dairy, and Beverage
- Pharmaceutical
- Bioprocessing

- Semi-Conductor

This module is a quick overview of the standards and practices utilized in High-Purity piping and equipment.

The module is free to all SPED members. Registration can be done yourself, with the enrollment key given to you by this office.

For more information contact  
[catherine\\_van\\_der\\_walt@spedweb.com](mailto:catherine_van_der_walt@spedweb.com)



## **SMEs Wanted for PPD Advisory Committee and New SPED Courses**

The goal here is to collect knowledge of specialty design practices and unique process equipment found in non-refining / power plant disciplines which utilize piping.

- cryogenics piping
- polymer piping
- solids (powders) piping
- food grade piping
- brewery piping
- steam piping
- pharmaceutical piping
- electronics fab piping
- pulp & paper

## **Designing With Sub-D**

*"With sub-d modeling, shapes are achieved by manipulating control points through several kinds of push and pull actions. The technology is incorporated into a number of software tools used in design, such as freeware Blender and Dassault X-Shape."*

<https://upfrontezine.substack.com/p/upfrontezine-1107-designing-with>

**Reveal Invisible Motion**  
(YouTube)

*"Motion Amplification and Video Magnification are techniques that find subtle changes in a video that are invisible to the naked eye and amplify them so they become visible. They have huge diagnostic potential in industry and medicine."*

[https://www.youtube.com/watch?v=rEoc0YoALt0&list=WL&index=230&ab\\_channel=SteveMould](https://www.youtube.com/watch?v=rEoc0YoALt0&list=WL&index=230&ab_channel=SteveMould)

## **Special COVID-19 Home Study Pricing Continues for October and November 2021**

SPED recognizes that many of our members are under stay-at-home orders. We must work and study away from workplaces and schools.

Continuing for the month of October and November, SPED is offering a bundle price for its two online courses, ***Piper Bootcamp*** and ***Process Plant Layout***. 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)

## **New Apprenticeship Tools Erase Tried-and-True Training**

*"When using modern 3-D plant design software, piping is routed in a three-dimensional model after which isometrics are automatically generated by the software. Often plans, elevations and section views are also automatically generated by software. No longer do bills of materials need to be completed by hand nor do isometrics have to be drawn by hand. These repetitive tasks used to familiarize the drafter with the subject material have vanished."*

<https://www.bicmagazine.com/departments/engineering-construction/new-apprenticeship-tools-erase-tried-and-true-training/>

## **REMINDER TO SPED MEMBERS TO UPDATE THEIR PROFILES AND PROVIDE A NON-WORK CONTACT EMAIL ADDRESS**

Many SPED members use their work email address when they join SPED, but this means that we will lose your contact details if you change jobs. Login at [spedweb.com](http://spedweb.com) and keep your email address up-to-date.

## **Open Design Alliance Scan-to-BIM Panel Discussion**

This is a good video. Note what the participant says about laser scanning when he mentions (13:49) the difference between having the contract to scan vs. having the

contract to scan AND model an existing facility. His workflow will be different; I infer that if he has to *also* do the modelling he will take many more scans at smaller intervals and at higher resolutions, which will cost significantly more (not to mention many opportunities for introduction of human error during modelling).

[https://youtu.be/sCz\\_Q9hd\\_5g?t=829](https://youtu.be/sCz_Q9hd_5g?t=829)

## **Webinar: Large CAD Assembly Simplification for Plant & Process Design**

*"Learn how orders of magnitude in file size reduction and simplification can be achieved ahead of integration into 3D plant and process design systems. This webinar demonstrates how CADfix automates the simplification of 3D CAD models for large equipment assemblies."*

[https://www.youtube.com/watch?v=XnBiZihkSfE&t=233s&ab\\_channel=ITI-InternationalTechneGroup](https://www.youtube.com/watch?v=XnBiZihkSfE&t=233s&ab_channel=ITI-InternationalTechneGroup)

**Professional Piping Designer Certification**  
GET CERTIFIED WITH SPED  
FOR MORE INFORMATION: EMAIL: [CDING@SPEDWEB.COM](mailto:CDING@SPEDWEB.COM) OR CALL: +1 713-960-6478

**Are You Certified?**  
When choosing among pipers, clients and employers know that Certified Professional Piping Designers (PPDs) meet the specific requirements of the process piping industry.

**Benefits PPD Certification | SPED Membership Status**  
Piper Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Company: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Email: \_\_\_\_\_

In today's competitive marketplace, the most qualified pipers have the best careers and their firms receive the most requests.

This is why SPED is promoting PPD Certification for all pipers. To that end, SPED has developed online courses, challenging exams, and programs like the PPD 100% Club to help pipers achieve excellence and document their skills with PPD Certification. The four levels of PPD Certification (see at right) indicate each piper's level of competence.

To schedule your online PPD Certification exam or register for an online course, visit [www.spedweb.com](http://www.spedweb.com) or call +1 713-960-6478.

**LEVELS OF PPD CERTIFICATION**  
Level I Basic PPD, Property Started  
Level II Advanced PPD, Organize Work  
Level III Senior PPD, Independent Producer  
Level IV Lead PPD, Manage, Assure Work

**About Certification**  
All PPD Levels require practical testing. Currently, level progression is based upon years of experience, education, and industry references. Level IV requires proven past supervisory experience.

SPED offers online courses and an online Review and Assessment exam to help you prepare for PPD Certification. Piped BestCamp is a self-paced online course for beginning pipers with piping-related education. Piped Start Camp is a self-paced online course for pipers with five plus years of experience. Each course's price includes course material, a handbook, exam, the application fee for PPD Certification and one year SPED Membership.

If you are confident in your knowledge of the material listed in our online courses, then the PPD Review and Exam may be the right choice for you. More information about PPD Certification, online courses, and the Review and Exam is available at [www.spedweb.com](http://www.spedweb.com). The PPD Certification Application is also available for download at [www.spedweb.com](http://www.spedweb.com).

**Steps to PPD Level I Certification**  
1. Submit a completed certification application form along with your resume and three references.  
2. Meet the PPD Level I Examination.  
3. SPED will review your application and exam results and determine if all criteria have been met. If all criteria are met, SPED awards certification.  
4. Annually renew your PPD Certification at [www.spedweb.com](http://www.spedweb.com).

**Steps to PPD Level Advance**  
1. To advance PPD Level, submit a completed certification application form along with your resume and three references.  
2. Meet the appropriate PPD Level Examination.  
3. SPED will review your application and exam and determine if all criteria have been met. If all criteria are met, SPED awards certification. PPD Level IV may require a review by the SPED Board of Directors.  
4. Annually renew your PPD Certification at [www.spedweb.com](http://www.spedweb.com).

**Two Steps to Renew**  
1. Complete and document the required PPD Professional Development Units (PDUs) by logging in to your SPED account profile at [www.spedweb.com](http://www.spedweb.com).  
2. Go to [www.spedweb.com](http://www.spedweb.com), click on PPD | Renew.

SPED Membership is not necessary for certification.

## **Piping Walkdown Discussion**

What to bring to the site

<https://www.eng-tips.com/viewthread.cfm?qid=235869>



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



(Click link for video)

**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!**

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