

## The American Society of Plumbing Engineers

NONPROFIT ORGANIZATION

CENTRAL OHIO CHAPTER www.central-ohio.aspe.org

P. O. Box 2571 Columbus, OH 43216-2571 Chapters are not authorized to speak for the Society

## February 2019

### **President's Report**

Hello to all ASPE Members and friends, Our next Central Ohio ASPE meeting is February 11 at 11:30 at the Spaghetti Warehouse. Hope to see you there. Hope the groundhog is right!

#### 2019 CPD exam registration

Registration is still open at <a href="mailto:aspe.org/">aspe.org/</a>
<a href="mailto:CPDExam">CPDExam</a>
. The 2019 exam will be held at testing centers around the world on April 3, 4 and 5. Registration is open until March 21. We are continuing the local review sessions. They will be held after the Monthly meetings this month and in March.

ASPE's 2019 Webinar Series Continues: Learn how to responsibly review sprinkler shop drawings, On March 20, presenter Richard Alpert, PE, will explain the items required by NFPA 13 to be shown on shop drawings and the most common corrections found during the shop drawing review process. This one-hour webinar awards 0.1 CEU or 1.0 PDH, and registration is open at <a href="mailto:aspe.org/ShopDrawingWebinar">aspe.org/ShopDrawingWebinar</a>.

We will be joined at the meeting by Rosie Leuby of the Builders Exchange of Central Ohio. She will be presenting information to promote the upcoming Ohio Construction Conference at the Ohio Union on March 13. Are you ready for Eweek and Girl Day? Make DiscoverE.org your one-stop shop for a plethora of resources you can use to engage students and celebrate engineers during Engineers Week (February 17-23) and Introduce a Girl to Engineering Day (February 21).

The Board is trying to offer various activities at Technical schools and STEM programs in the area. We could certainly use additional volunteers for this to be successful.

Bill Deardurff

**President** 

February Lunch Meeting February 11, 2019

Spaghetti Warehouse 397 West Broad Columbus, OH 43215

11:30 AM-1:00 PM

\$20.00 members; \$30.00 non-members

SUBJECT: Medical Gas Design

SPEAKER: Jeff White,

**Beacon Medaes** 

Jeff White with BeaconMedæs. Jeff is Medical Gas Specialist for BeaconMedæs and regularly assists Design Professionals as well as Medical Professionals in the proper, code compliant, design and application of medical gas systems. His experience and knowledge is highly respected by many of the plumbing professionals in our Chapter.

Represented By: Omar Mc Dowell Co. Contact: 440-808-2280 craig@omarmcdowell.com

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#### **VP Technical—Mark Taylor**

Jeff White of BeaconMedæs will be our lunch speaker in February. Jeff is considered to be one of the most knowledgeable resources in Central Ohio for Medical Gas Systems. His presentation will be centered around Medical Gas Source Equipment. He is planning to discuss Medical Air, Vacuum, Waste Anesthesia Gas and the differences between "instrument air" and "equipment air." There are the application of the air dictates weather it falls under NFPA 99 or outside those requirements.

I currently have multiple requests for the January Compressed Air presentation. I will continue to follow-up with our speaker in an attempt to obtain the slides. I have not forgotten you, I just don't have them as of yet.

As a P.E. I get ongoing offers for seminars to earn Continuing Education Credits. Recently I have had two that may be of interest to our Chapter Membership.

Wednesday, February 20, 2019, Mr. James A. Richardson, Jr. will conduct a 7 credit-hour class on the International Plumbing Code.

Wednesday, March 13, 2019, Mr. Robert J. Schutz will conduct a 7 credit-hour class on the Ohio Building Code.

For more information including location, times, fees, learning objectives, etc. go to <a href="https://www.halfmoonseminars.org">www.halfmoonseminars.org</a>.

At our next Board meeting, we will discuss the possibility of a 1/2-day compressed air seminar. If you have input, regarding location, topics, etc. please send me a quick email: <a href="mailto:old.tarklor@gmail.com">old.tarklor@gmail.com</a>. Also, Jeff White and BeaconMedæs are considering a full-day medical gas design seminar. The board will be evaluating our ability to host this seminar

We have also heard the feedback about the difficulty of hearing our speakers if you sit near the rear of the room. We are evaluating some type of chapter owned PA system.

As always, please provide me with feedback. I am here to help all of us to get better, including me.

Future meetings:

**March:** Chuck Blythe with Environment Comfort will discuss the application of Heat Pumps for domestic water heating

**April**: Watts will update us on the types and proper application of Backflow Preventers.

**May**: Water Control Corp will address Legionella and Pathogen Control.

### Mark Taylor

**Vice President Technical** 





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### **VP Legislative—Mike Spengler**

#### ASME launches a new automated Standards Update Notifications system

Through the system, subscribers will be informed via email when an update to an ASME standard has been published. The system will not provide a copy of the standard, only notification that it has been updated. Users can sign up for specific updates by copy/pasting the following link into your browser: (https://www.asme.org/shop/product-update-notifications).

## Ohio Board of Building Standards Presents: Building on the Code!

Registration for the Building on the Code Series is now open. The course, "Existing Buildings: Chapter 34," will take place on Thursday February 21, 2019 from 8:30 a.m. to 4:00 p.m. Carl Lamping will present this 6-hour course, which will review the provisions of chapter 34 of the

Ohio Building Code and their application through "real world" scenarios.

This course is approved for 6 hours of continuing education credit for ALL BBS CERTIFICA-TIONS. This class is also open to the public and there is no cost to attend. Webcast is not available for this presentation but will be provided for a future course date and time.

When: February 21, 2019; 8:30 a.m. – 4:00 p.m Where: Ohio Department of Transportation Auditorium

1980 West Broad Street, Columbus, Ohio 43223

Register: https://www.surveymonkey.com/r/BOTC\_February21\_Columbus Questions: Please contact Megan Foley at mfoley@com.state.oh.us

## 2019 Ohio Fire Academy Course Catalog Now Available

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#### Advantages of MegaPress Stainless for IPS

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The 2019 Ohio Fire Academy Course Catalog is now available online.

More than 100 on-campus offerings are currently available for 2019, including 23 fire service courses for firefighters, fire inspectors, and officers; eight EMS courses to help meet Ohio EMT and paramedic renewal requirements; 63 professional development courses; 26 fire prevention courses, and more.

The Ohio Fire Academy (OFA) offers various ways to deliver high-quality training and education, including on our main campus, by request and through the Close to Home program.

Since the start of 2018, the OFA has provided 1,177 separate course offerings, training 8,524 firefighters both on and off campus. Our educators trained more than 17,000 firefighters through our online programs in 2018, as well.

To see our entire course calendar for 2019, copy and paste the following link into your browser: https://www.com.ohio.gov/documents/fire\_ofacoursecalendar2019.pdf

For more information, or if you have questions regarding any of our 2019 course offerings, visit the Ohio Fire Academy Website (http://www.ofots.com/), email webo-fa@com.state.oh.us or call 888-726-7731.

## New Water Demand Calculator Available from IAPMO

This tool provides a new alternative to Hunter's curve when estimating water supply demand for residential buildings based on today's plumbing fixtures and appliances and usage patterns. The Water Demand Calculator is a Microsoft Office Excel file and requires a compatible version of Excel 2009 or later to prevent loss of functionality. The calculator can be found at the following website:

(http://www.iapmo.org/WEStand/Pages/WaterDemandCalculator.aspx)

Ohio Board of Building Standards Moratorium on School Storm Shelter Requirement On June 7, 2018, the Ohio General Assembly adopted House Bill (HB) 21 effective September 28, 2018 which includes new Revised Code (R.C.) § 3781.1010 enacting a moratorium on the building code requirement for schools to have storm shelters until September 15, 2019. The 2017 Ohio Building Code (OBC) adopted by the Board last year and effective November 1, 2017 included new Section 423.4 requiring storm shelters constructed in accordance with ICC 500 in Group E occupancies. New R.C. § 3781.1010 provides:

No rule of the board of building standards for the erection, construction, repair, alteration, and maintenance of buildings adopted under section 3781.10 of the Revised Code shall require the installation of a storm shelter in any school building operated by a public or private school prior to September 15, 2019, or in any such school building undergoing or about to undergo construction, alteration, repair, or maintenance for which financing has been secured prior to that date. Any rule adopted by the board that conflicts with this section shall not be effective with respect to any school building prior to September 15, 2019.

As used in this section, 'school building,' 'public school,' and 'private school' have the same meanings as in section 3781.106 of the Revised Code.

Building departments and school districts should consider the following when evaluating how new R.C. § 3781.1010 may affect proposed school construction project designs and submittals:

- (1) Projects submitted before November 1, 2017: Proposed school building designs (new buildings, additions, alterations) submitted to the building department prior November 1, 2017 are subject to the requirements of the code in effect at the time of application. Therefore, OBC § 423.4 does not apply and would not be affected by HB 21.
- (2) Projects submitted between November 1, 2017 and September 28, 2018: In R.C. § 3781.1010, the General Assembly prohibited requiring storm shelters in schools until September 15, 2019. Building Officials should consult with their legal counsel regarding whether resubmittal of the project is needed for the moratorium to apply.

(Continued from page 7)

(3) Projects submitted on or after September 28, 2018: The moratorium applies; therefore, a storm shelter constructed in accordance with ICC 500 is not required if the project is submitted prior to September 15, 2019. Additionally, if financing has been secured for a project prior to September 15, 2019 the moratorium applies regardless of when the project is submitted. Building Officials should consult with their legal counsel regarding what constitutes the securing of financing for the purposes of R.C. § 3781.1010.

After the expiration of the moratorium on September 15, 2019, a storm shelter constructed in accordance with ICC 500 will be required in Group E occupancies unless one of the above conditions apply, the project falls within a listed exception in OBC § 423.4, a variance is granted, or the project is for an alteration of an existing building and a storm shelter would not otherwise be required under OBC Chapter 34.

## Ohio Board of Building Standards Code Classes

On January 26th, The Ohio Board of Building Standards sponsored training on the 2017 Ohio Building, Plumbing and Mechanical Code Updates. I have very helpful literature from the classes, including a PDF of the significant changes presentation so please contact me if you would like a copy and were unable to attend the classes.

### Mike Spengler

Vice President Legislative





#### WHY THE PLUMBING INDUSTRY'S ELITE CHOOSE TO EARN THE

## CPD CREDENTIAL

"The CPD certification will add value to your resume and your company."

That's according to Sarah A. Balz, PE, CPD, GPD, LEED AP, who is one of hundreds of plumbing industry professionals who has recognized the professional benefits of the Certified in Plumbing Design (CPD) credential offered by the American Society of Plumbing Engineers (ASPE). Yet the CPD doesn't just boost your own career—it also brings value to your company by reflecting the leadership and advanced design skills of the firm's employees.

#### SET YOURSELF APART

The CPD is the only international credential program in the plumbing engineering field, and those who maintain the designation are considered to have the highest level of skills in the design and specification of plumbing systems. Employers, clients, and your peers in the industry will immediately appreciate your achievements when they see the CPD designation after your name.

With CPD on your LinkedIn profile, business card, or resume, employers instantly know that you are in the top tier of plumbing engineers, and many employers are quick to reward employees for their accomplishments in achieving and maintaining the credential. Layne Andrew Micek, CPD, GPD, says that "the CPD has allowed me to progress in my company in a rather short time."

Also, the professional recognition afforded by the CPD can help accelerate your career as compared to those without the credential. "The CPD reflects competency in plumbing design and professionalism, and sets one apart from others in the industry, whether it is competing for a project with an owner, architect, or contractor, or competing for promotions in your employment," says Bradley T. Gettel, CPD, GPD, LEED AP.



Why are CPDs known to have the most

advanced skills? Due to the recertification requirements, CPDs are continually attending training programs so they are always the first to know about new techniques, methods, and products. "The continuing education requirement for my CPD recertification keeps me on a monthly schedule of training to stay fresh and up to date on new plumbing technologies," says Nikki R. Probert, CPD, GPD.

In fact, many CPDs say that the recertification requirement is one of the greatest hidden benefits of the program, in that it forces you to stay at the forefront of the industry through continuing education. "It is worth the time and effort on how it impacts my career," Gettel says.

#### ADD VALUE TO YOUR COMPANY

In addition to the CPD credential enhancing your career, it also strengthens your company's image in the increasingly competitive MEP industry. When potential clients see the CPD after your name, they know your company is dedicated to hiring and supporting the best talent in the profession. When you study for the CPD exam and stay educated through ongoing training, you bring more value to the services your company offers.

"Just studying for the exam itself is a great way to get exposure to all of the many aspects of the plumbing design industry. The CPD certification will add value to your resume and your company," Probert says.

Micek agrees: "The CPD shows that you are knowledgeable in the industry and can make the decisions necessary to provide the client with a great design for their building."

#### HOW CAN YOU JOIN THE ELITE?

The CPD exam is held at online testing centers around the world every year. To take the first step toward unlimited career potential, visit aspe.org/CPD.



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## Region 2 Affiliate Liaison — Dann Holmes



Region 2 Affiliate Report

## Legionella Conference 2019 Building Water Systems: The Sustainability and Public Health Nexus www.legionellaconference.org

In my January article I wrote about the many events happening in ASPE Region 2 this year. These include the February 28-March 1 Basic Design Workshop in Pittsburgh; the May 31-June 1 President's meeting in Rochester; and the August 6-8 HITS Conference in Buffalo. I expressed how much we have available to us in our region this year and how thankful we all must be for these educational opportunities. I closed in saying I would write more about the Legionella Conference 2019 as information became available.

Why a *Legionella* Conference? Simply put, because *Legionella* is the big 'L' in the room. Ears perk up at the slightest mention of the word. Hospitals go into panic mode and implement an immediate shutdown of water in section of their facility when they get a positive test result for it. It's complicated, it's important, and if we listen to many industry professionals, we all know we can store our hot water at 140°F and control this beast. If this is what you've been told, if this is what you believe, then you best put this conference on your "MUST ATTEND" list.

If you deal with healthcare, then you should understand *Legionella* isn't their only concern. Pseudomonas aeruginosa, Acinetobacter, NTM (Nontuberculous mycobacteria), and fungi are just some of the bacteria and fungi in these environments.

Today, all healthcare facilities must have an active water management plan in place. I hate to report to you that many of these plans are

two, and three pages in length describing that "they have a WMP". They, or their consultants have used their computer Snipping Tool to snap a section out of the CDC Tool Kit and use that snip to illustrate their flow diagram, to show their control measures, and corrective actions. I hate to tell you this but the CDC Tool Kit is only a reference guide; an example to help you understand a process. A process that is only looking at the control of *Legionella*. IT IS NOT YOUR WATER MANAGEMENT PLAN.

There is no way any facility can have an effective Water Safety Plan without conducting a risk assessment that includes an onsite review of all their water systems.

## So Why Should You Attend This Conference?

The Legionella Conference, hosted by NSF International and the National Environmental Health Association, is a unique, annual event that focuses on emerging issues related to building water systems - and brings professionals together to work toward solutions. The 2019 Legionella Conference theme. "Building Water Systems: The Sustainability and Public Health Nexus," centers on how both industries can help align water and energy sustainability and public health goals. This event will bring together thought leaders from across the sustainability, public health, water management, water utility and academic communities. Working in collaboration with diverse stakeholders, we can develop systems to prevent illness associated with building water systems while meeting our sustainability goals.

#### Important topics include:

- Creating a successful water management program
- Advancing water reuse opportunities
- Monitoring a successful water management program
- Intersection of sustainability and public health for cooling towers
- Water conservation goals and public health
   responding to unintended consequences
- Strategies for benchmarking building water systems for sustainability and public health outcomes
- Legionella outbreak surveillance and re-

(Continued on page 12)

#### sponse strategies – identifying best practices

 Domestic hot water systems – safely and efficiently managing water temperatures
 Plumbing design

#### Who Should Attend?

- Facilities managers
- Plumbing engineers
- Mechanical engineers
- · Public health officials
- Health care infection control personnel
- Certified hygienists
- Environmental consultants
- Sustainability directors

Professionals interested in building water health Please visit <a href="www.legionellaconference.org">www.legionellaconference.org</a> to register. If you have something you'd like to contribute, please submit a <a href="Call for Abstracts">Call for Abstracts</a>. We all want to hear from you.

Dann Holmes – ASPE Region 2 Affiliate Liaison NSF International – Building Water Health Business Development Manager <a href="mailto:r2al@aspe.org">r2al@aspe.org</a> or (734) 214-6222





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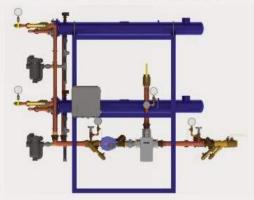
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- Water temperature raised above Legionella survival levels on every recirculation cycle.



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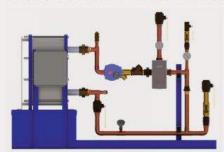


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- Water temperature raised above Legionella survival levels on every recirculation cycle.

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#### **Officers**

President
Bill Deardurff, CPD
Dynamix Engineering
855 Grandview Ave.
Columbus, Ohio 43215
614-443-1178 Fax: 614-443-1594
bdeardurff@dynamix-ltd.com

Vice President, Technical Mark Taylor Radnor, Ohio 740-595-3239 old.tarklor@gmail.com

Vice President, Education Brad Fitzsimmons Bruner Corporation 3637 Lacon Road Hilliard, Ohio 43026 614-334-9000 Fax: 614-334-9001 jbfitzsimmons@brunercorp.com

Vice President, Legislative Michael Spengler, PE Dynamix Engineering 855 Grandview Ave. Columbus, Ohio 43215 614-443-1178 Fax: 614-443-1594 mspengler@dynamix-ltd.com

Vice President, Membership Jason Plageman Disney-McLane 627 Euclaire Avenue Bexley, Ohio 43209 614-989-7662 jasonp@disney-mclane.com

Treasurer
Hanse Cromer
Steffens-Shultz, Inc.
525 Industrial Mile Road
Columbus, Ohio 43228
614-274-5515 Fax: 614-274-0126
hcromer@steffens-shultz.com

Administrative Secretary Kevin McGovern Kevin McGovern & Associates 4245 Dilomacy Drive Columbus, Ohio 43228 614-481-8182 Fax: 614-481-0734 kevin@kmahvac.com

Corresponding Secretary
Greg Hochstetler, PE, LEED AP
Speer Mechanical
5255 Sinclair Road
Columbus, Ohio 43229
614-261-6331 Fax 614-261-6330
ghochstetler@speermechanical.com

Affiliate Liaison
Tim Gleich
BWA South Co. Inc
4501 Sutphen Ct
Hilliard, Ohio 43026
614-876-2477 Fax 614-876-0238
timg@bwasouth.com

AYP Liaison
Paul Coyne
Limbach Company
822 Cleveland Ave.
Columbus, Ohio 43201
614-299-2175
paul.coyne@limbachinc.com

## ASPE CENTRAL OHIO CHAPTER 2018-2019 MEETING and EVENT SCHEDULE

September 10, 2018	Water Filtration and Softening
October 9, 2018	Joint ASPE/MCACO/ASHRAE/
	SFPE Meeting
November 12, 2018	Sewage Ejector and Sump Pump Sizing
December 10, 2018	High purity Water Systems (RO & DI)
January 14, 2019	Compressed Air System Design
February 11, 2019	Medical Gas Source Equipment
March 11, 2019	Heat Pumps for Domestic Water Heating
April 8, 2019	Proper Application of Backflow Preventers
May 13, 2019	Legionella and Pathogen Control
June 18, 2019	ASPE Golf Outing

The Central Ohio chapter of ASPE newsletter is published as a forum for its members. Opinions expressed herein do not necessarily reflect those of the society, the Central Ohio chapter or its editors.

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