

February 2021

President's Report

**Hello to all ASPE Members and friends,
Looking forward to our "Virtual" meeting
next Monday, Feb. 8.**

ASPE's [Certified in Plumbing Design \(CPD\) program](#) offers the only international credential for engineers and designers of plumbing systems. [Registration](#) is open for the 2021 exam, which will be held via remote proctor on April 5-16. If you would like to participate in a review class please reply to me or one of the other officers.

Please start to think about future meetings:

- Would you like to start in-person meetings in March or April?
- Meeting might need to be limited to the first 30 or so people (at Spaghetti Warehouse).
- We are considering a Hybrid where some of us can meet together but others can join remotely.
- We may need to search for a new location with a larger meeting room.

Please reply to me with any reactions to, or questions about the statements listed above.

Of course, all of our planning will be just "penciled in" for a while. We are planning for on-line meetings at least through March.

Also, start thinking about the elections next May. I will not be running for re-election due to term limits. Please consider joining our Board of Directors. We need some new (younger) blood rather than just "shuffling the deck" with the same board members.

Hope you can stay busy without being crazy-busy.

Stay safe and keep your "Social Distance". My wife and my mom have both been scheduled for their first vaccine shot.

Bill Deardurff

President

February WebEx Technical Presentation

February 8th, 2020

12:00 PM—1:00 PM

Free— members; \$25.00— non-members

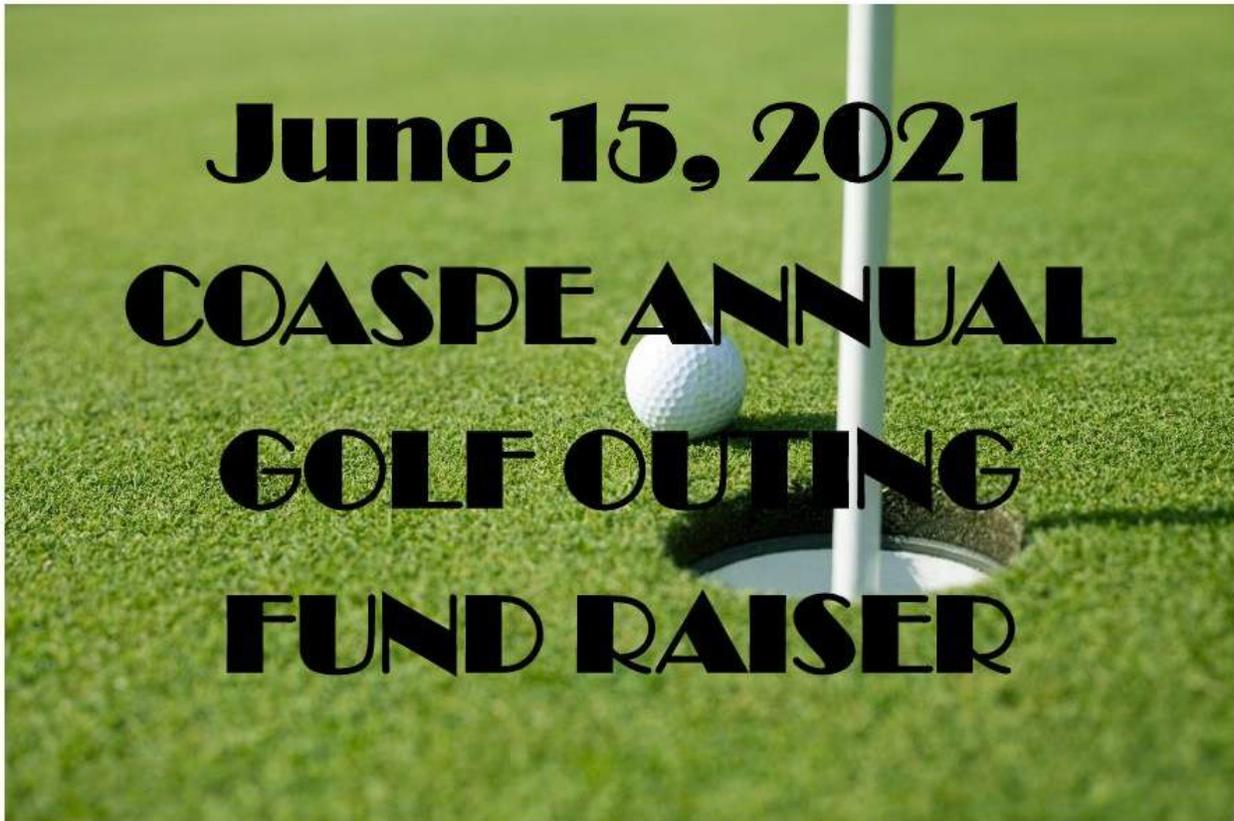
**SUBJECT: Valves: Not All Alloys Are
Created Equal**

SPEAKER: Lauren Berenato, Jomar

Lauren has been with Jomar Group since February 2019. She is the national specifications manager for the commercial plumbing division of the company. She connects the twenty-three manufacturer's representative agencies in the United States with Jomar to help advance the plumbing and hydronics industries to the most efficient methods of developing their systems. Prior to working with Jomar, Lauren served as the national business development manager with a valve manufacturer. She has been involved in the plumbing and hydronics industries since 2016.



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VP Technical—Mike Nickoson

For the February presentation we will be welcoming Lauren Berenato from Jomar Valve. This presentation will explore the differences between the varieties of materials commonly chosen for valve design including the realization that some materials labeled as bronze technically are a brass material according to the Cooper Institute.

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She is a member of ASPE, ASA, and AIM/R; within ASA she is involved in the emerging leaders division, plumbing division as well as women in industry division. Lauren serves on the ASPE Region 1 Board as the affiliate liaison member.

The topic for our May meeting will be confirmed in the next week or two which will fill out this ASPE year. I am starting to look for presentations for the 2021-2022 year. If you have a topic you would like to suggest or (even better) present, please let me know.

Mike Nickoson

Vice President Technical

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TEST REPORT

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Report Number: 2516-18001-002 Project No.: 20225
Report Issued: February 26, 2018.
Client: Aqua-Rex
3301 Spring Mountain Road Ste 18
Las Vegas, NV 89102 Contact: Jonny Seccombe
Source of Samples: The samples were shipped to IAPMO R&T Lab from Aqua-Rex, and received in good condition on October 11, 2017.
Date of Testing: October 25, 2017 through December 15, 2017.
Sample Description: Scale Prevention Device, model: Aqua-Rex WK1-E.
Scope of Testing: The purpose of the testing is to determine the efficacy of the Scale Prevention Device per section 5 of IAPMO IGC 335-2018, entitled "Rapid Scaling Test for Scale Prevention Devices".
CONCLUSION: When tested per Section 5 of IAPMO IGC 335-2018, Aqua-Rex WK1-E reduced scaling by 83% when applied to Las Vegas water heated to 180°F.

Tested by,

Reviewed by,

Haiky Nink
Haiky Nink, Project Engineer

Sean Vun
Sean Vun, P.E., Manager, Specialty Projects

VP Education—Brad Fitzsimmons

Upcoming Webinar – 2021 CPD Review Class 1

February 13, 14, & 20 2021 11:00 AM – 4:00 PM (EST)

Miscellaneous and FAQs

- CEUs/PDHs are not awarded for this class.
- Each class consists of three days of training. See times at the top of this page for dates/times, or the respective class pages.
- Participation in this class is not a guarantee to pass the CPD or CPDT Exam.
- Participation in this class does not include CPD or CPDT Exam registration.
- Classes are limited to 30 students.
- Registration closes the week prior to the start of the class.
- Classes are virtual and held via ASPE Edu-

cation / Zoom.

- Registration is not available for partial class participation.
- Registration is NOT transferrable.

Questions? Email certification@aspe.org

Review the [CPD Review Class page](#) for other details and instructor bio.

Brad Fitzsimmons

Vice President Education

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Introducing the Ultra Force® XL

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VP Legislative—Mike Spengler

Two New ICC Building Code Tools Available Online

The International Code Council has launched two online building code tools for building safety professionals and the public to access free information about building code usage in their communities.

Created in partnership with the Federal Alliance for Safe Homes (FLASH) and the Insurance Services Office (ISO), the [U.S. Code Adoption Database](https://codeadoptions.iccsafe.org/) (<https://codeadoptions.iccsafe.org/>) is an interactive map that shares code adoption information at the state and local level. A one-of-a-kind U.S. code adoption tool, the database displays which codes are adopted within each state/jurisdiction and provides context and links to access further code information.

The database also contains a color-coded map for each of the 15 International Codes (I-Codes)—the most widely used model building codes in the world—showing statewide code adoptions around the U.S. The most current

adoption information is maintained across the site through a collaboration effort between the Code Council, FLASH, and ISO.

The [Global Building Codes Tool](https://www.iccsafe.org/products-and-services/global-services/global-codes/) (<https://www.iccsafe.org/products-and-services/global-services/global-codes/>) provides information about the building codes and standards used in countries around the world. Users may select a country from the world map to view information about the respective building safety regulation agencies, and the building codes and standards referenced and enforced within that country. The tool is designed to help manufacturers and designers who are interested in exporting their products and services to markets outside the United States, as well as to government officials around the world who are monitoring these regulations which impact market entry.

New Document Addresses When Plastic Pipe Can Be Directly Connected to Tankless Water Heaters

The Plastics Pipe Institute, Inc. (PPI) has published a new recommendation related to the direct connection of plastic piping materials

(Continued on page 9)

Introducing the next generation of piping systems for commercial plumbing

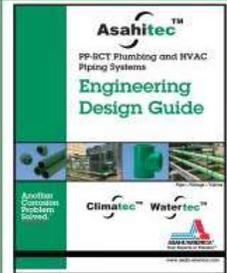
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Region 2 Affiliate Liaison — Dann Holmes



Region 2 Affiliate Report

DOUBLE DOWN ON EDUCATION

2020 is in the history books but unfortunately, 2021 is starting out right where we left off. Not necessarily a good thing.

As I type, the nation and the world are watching the peaceful transition of power from one U.S. President to another. No matter how you voted, every election has consequences. Even if you did not vote, it still has an influence on the direction of our constitutionally limited Republic. What comes next is anyone's guess.

Education is more important today than at any time in human history. Not only do we need to understand science, technology, engineering, and math (STEM) but we must educate ourselves on history too.

Writer, philosopher George Santayana is credited with the phrase "Those who cannot remember the past are condemned to repeat it". Sir Winston Churchill modified the quote in a speech to "those who fail to learn from history are doomed to repeat it".

Churchill went on to say that "we must always look forward, but we have to understand our history in order to not repeat the mistakes of the past. I have seen too many instances where people continue to pursue wrong courses of action because they do not take the time to think critically about what has happened in the past".

Rewriting history to suit ones own best interest will not change the ultimate outcome of any future event. If you have not done your homework reviewing the facts and performed a critical analysis on the root-causes of past events, then expect similar results.

One of the most brilliant thinkers in human history, Albert Einstein is quoted as saying "Insanity: doing the same thing over-and-over again and expecting different results".

We cannot pick-and-choose which facts we want to reference when seeking an answer to a problem that confronts us to arrive at a preconceived notion of reality. Do not confuse facts with opinions.

The good, bad and ugly events of human history are there for us to use to our advantage. Putting our heads in the sand, denying events ever happened, or placing blame where it does not lie will come home to roost. It may be after we have left this great planet Earth, but like Haley's comet, we can predict a return.

There is a reason our forefathers fought for our right to free speech, to bear arms, and individual rights. They understood the failures of every government that preceded the formation of the United States of America and gave our country a chance to do better.

Little is known about Elizabeth Willing Powel, but she asked one of the most important questions in the 245-year history of our great nation. On the final days of the Continental Congress in 1787, Americans gathered on the steps of Independence Hall waiting to hear the news on the type of government our founders had created. Ms. Powel asked Dr. Benjamin Franklin; well doctor what have we got, a republic or a monarchy? Franklin replied, "a republic if you can keep it".

STEM for plumbing design, installation and operation of building water systems must include facts from past successes and failures, not opinions, for us to minimize risks to humans from waterborne pathogens. Unfortunately, we need science-based research to perform our critical analysis. These are just some of the challenges we are facing in 2021 and beyond.

I pray for continued success of our nation based on facts, not on opinions or party politics using "selective memory". If not, we are doomed to repeat past mistakes.

Dann Holmes* – ASPE Region 2 Affiliate Liaison
NSF International – r2al@aspe.org

*Views disclaimer: the views, thoughts, and/or opinions expressed in this article belong solely to the author, and not necessarily to the author's employer, any organization, committee, or other group or individual.

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(Continued from page 6)

CPVC, PE-RT, PEX, and PP to tankless water heaters.

Available on PPI’s website, “[PPI Recommendation H: Direct Connection of Plastic Piping Materials to Tankless Water Heaters for Domestic \(i.e. residential\) Applications](#)” provides clear guidance on the question of direct connection of these piping materials to tankless water heaters. PPI is the major trade association representing the plastic pipe industry.

“As stated in Recommendation H, piping systems using the materials CPVC, PE-RT, PEX, and PP, which carry a pressure rating of 100 psi at 180°F (690 kPa @ 82°C), and which are intended and certified for hot and cold potable water distribution systems according to industry standards and relevant codes, may be connected directly to tankless water heaters that are intended for domestic (i.e., residential) applications, unless prohibited by local plumbing code or the specific water heater manufacturer.”

Published on PPI’s website directly at plasticpipe.org/pdf/recommendation-h-directconnection-tankless.pdf, Recommendation H is one of several PPI documents related to the design and installation of pressure pipe materials for plumbing and mechanical applications, which are all published as a service to the industry.

New Alternative Care Site Guidebook Available to Help Respond to the Rising Need for Hospital Beds due to COVID-19

As many communities are setting up alternative care sites (ACS) in response to spikes in COVID-19, the ASHRAE Epidemic Task Force announced the availability of the [Alternate Care Site HVAC Guidebook](#), which was developed by the ASHRAE Alternate Care Sites Task Force.

The task force was convened upon the request to the ASHRAE Epidemic Task Force from the U.S. Army Corps of Engineers to provide engineering recommendations, solutions, and guidance to address the HVAC systems for ACS.

“This guide was developed in response to the growing need for flexible patient care space to be deployed in locations where permanent hospital beds are insufficient for the number of COVID-19 positive patients needing care,” said Zhivov. “The guidebook provides recommendations for applying standards which are used for permanent facilities to temporary sites under less than ideal conditions or with time, budget and technical feasibility constraints.”

The ACS HVAC guide is primarily applicable to host sites with large open spaces such as convention centers and other large spaces. It is also applicable to the conversion of smaller facilities with open areas such as school gymnasiums.

<https://www.ashrae.org/file%20library/technical%20resources/covid-19/usace-acsguidebook---final-2020-11-08.pdf>

NSF/ANSI/CAN 61 Publishes Plumbing Standards Revision

Newly published changes to NSF/ANSI/CAN 61, the drinking water product standard required in the United States and Canada, further restrict the amount of lead that can leach from plumbing products, NSF International has announced.

The significantly more rigorous requirements were approved after nearly three years of exploring various testing methods to reduce lead leaching from endpoint devices that dispense drinking water, as well as from other plumbing components.

The more stringent pass/fail criteria for certifica-

(Continued on page 11)

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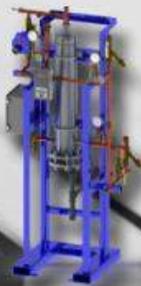
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(Continued from page 9)

tion to the standard will require the maximum amount of lead leaching to be reduced from 5 micrograms (μg) to 1 μg for plumbing endpoint devices that dispense drinking water such as faucets, and from 3 μg to 0.5 μg for other plumbing components such as connector hoses and small shutoff valves. Inline mechanical devices and other product categories under NSF/ANSI/CAN 61 are not subject to the new requirements.

Under the new standard requirements, certification of applicable products to the more stringent lead leaching criteria is optional for the next three years to allow manufacturers time to comply. On January 1, 2024, all products will be required to meet the stricter requirements.

Products certified to the standard's new criteria will be required to indicate compliance on their product literature and/or packaging to enable schools and consumers to easily identify products with the reduced lead leaching limits.

<https://www.nsf.org/news/plumbing-standard-revisions-tighten-lead-leaching-criteria-drinking-water>

ASHRAE Introduces Updated Reopening Guide for Schools and Universities

The ASHRAE Epidemic Task Force has developed guidance on the operation of HVAC systems to help mitigate the airborne transmission of SARS-CoV-2 as schools prepare to reopen for the fall academic year.

The 41-page Presentation includes convenient checklists to prepare educational buildings to resume occupancy such as starting up HVAC systems as well as checks and verifications to maintain during the academic school year. The guidance is meant to provide practical information to school districts and university campus environmental health managers, facility managers, administrators, technicians, and service providers.

The guide includes the following topics:

- Determining Building Readiness
- Equipment & System Specific Checks & Verifications During the Academic Year

- New/Modified Facility Design Recommendations
- Filtration Upgrades
- Operations of Occupied Facilities
- Controlling Infection Outbreak in School Facilities
- Higher Education Facilities Recommendations

Also included is guidance formulated to help designers retrofit and plan for the improvement of indoor air quality and to slow the transmission of viruses via the HVAC systems as well as new guidance on student health facilities, laboratories, athletic facilities, residence halls, and large assemblies, lectures, and theaters.

For the complete ASHRAE Epidemic Task Force school reopening guide and other COVID-19 resources, visit [ashrae.org/COVID-19](https://www.ashrae.org/COVID-19).

Mike Spengler

Vice President Legislative



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ASPE CENTRAL OHIO CHAPTER 2020-2021 MEETING and EVENT SCHEDULE

September 14, 2020	Laboratory Gas Systems
October 12, 2020	Acid Waste Pipe
November 9, 2020	Electric Tankless Heater Design Applications and Pitfalls
December 14, 2020	Commercial Valves 101
January 11, 2021	Water Conditioning
February 8, 2021	Not All Alloys are Created Equal
March 8, 2021	MedGas—Choosing the Technology
April 12, 2021	Pipe and Equipment Insulation
May 10, 2021	TBD

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