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IAPMO Advances Development of 2018 Uniform Codes During Technical Committee Meetings

IAPMO® recently completed Technical Committee Meetings toward the development of the 2018 editions of the *Uniform Plumbing Code (UPC®)* and *Uniform Mechanical Code (UMC®)*, both American National Standards. During the May 1-4 meetings at the Disney Paradise Pier Hotel in Anaheim, the committees reviewed and moved to accept, amend and accept, or reject public comments regarding proposed amendments to the 2015 editions of the Uniform Codes.

Public comments to the UPC address such issues as the addition of referenced standards for wall hung fixtures; insulation for exposed pipes and surfaces for accessible lavatories and sinks; waste fittings and overflows; flushometer valves; limitation of the water supply temperature to emergency shower and eyewash stations; new materials for water supply and distribution piping and drain, waste and vent piping; tracer wire for plastic material; testing the water supply system with air for PEX, PP or PE-RT tubing; horizontal trap arm lengths; engineered storm drainage systems; alternate water sources for nonpotable applications; and an alternative pipe sizing method for the water supply

OFFICIAL MAGAZINE

and distribution system.

Public comments to the UMC address combustibles within ducts or plenums; phenolic ducts; plenums; factory made air ducts and connectors; flexible air ducts; duct leakage tests; A2L and B2L refrigerants; materials for hydronic systems piping, tubing, and fittings; and copper refrigeration linesets. Additionally, the UMC Technical Committee requested a task group to address the term "factory made air ducts."

In accordance with IAPMO's American National Standards Institute (ANSI) accredited code development process, balloting through the UPC and UMC Technical Committees will begin on May 19 and conclude on June 16. The Report on Comments (ROC) will be created from these balloted actions and distributed to committee members on Aug. 21.

Read more:

www.iapmonline.org/Documents/archive/20170515_2018_Uniform_Codes_TC.aspx

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IAPMO Again Participates in National High-Performance Building Week

IAPMO is excited to again promote and participate in the events surrounding national High-Performance Building Week in our nation's capital. Organized by a coalition of building industry stakeholders that support the High-Performance Building Coalition (HPBC), the annual event seeks to inform and stimulate discussion about the benefits — water/energy conservation, improved safety/environmental quality — derived from high-performance buildings and practices. The focus and theme of this year's event is to help policymakers understand "The Critical Role Buildings Play in America's Infrastructure."

The HPBC is a private sector coalition providing guidance and support to the High-Performance Buildings Caucus of the U.S. Congress. Dain Hansen, IAPMO's Senior Vice President of Government Relations, is HPBC Chairman.

"High-Performance Building Week is a time when the industry can come together with a unified voice to raise awareness of policy initiatives, organizational priorities, and cutting-edge innovations that drive the construction and building industry throughout the country," Hansen said. "This year we have a full slate of briefings, receptions, and a congressional lobby day to unveil the broadly supported policy and appropriation priorities for the industry. Buildings play a vital role as a part of America's infrastructure, and Congress and the White House need to hear from our community in making sound policy."

One of this week's briefings will highlight the findings of the National Institute of Building Science's Consultative Council, a high-level industry body that was chaired this year by IAPMO's Executive Vice President of Advocacy, Research, and Program Development Pete DeMarco.

The IAPMO Group will participate in each of the events this week:

Congressional Briefing: Achieving a High-Performance Built Environment: Findings and Recommendations from the Consultative Council

Tuesday, June 6, noon-1 p.m.

Location: 122 Cannon House Office Building

High Performance Building Coalition Day on the Hill

Wednesday, June 7, 9 a.m.-3:30 p.m.

Coalition members are heading to Capitol Hill to meet with High Performance Building Congressional Caucus members and their staff.

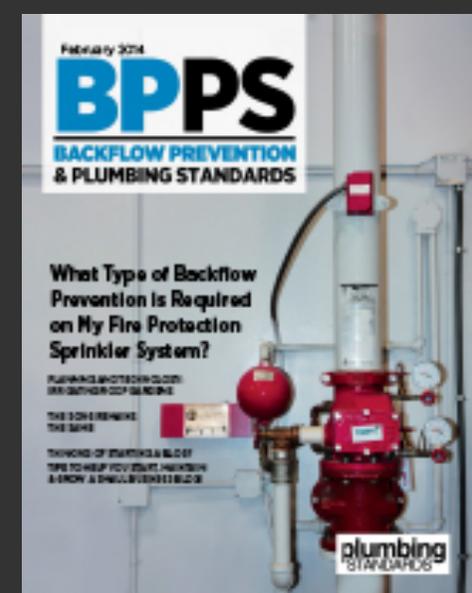
Congressional Reception



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A subscription to Official is just one of the many benefits available to members of IAPMO, which include substantial discounts on most IAPMO publications and educational programs, the opportunity to update and improve the UPC and UMC, participation in local IAPMO chapters and an invitation to attend IAPMO's Annual Education and Business Conference. The conference offers superb educational seminars. Find out more at www.iapmo.org.

BPPS MAGAZINE



Backflow Prevention & Plumbing Standards (BPPS) magazine is the only monthly trade publication dedicated to the backflow prevention and plumbing industries. BPPS is specifically designed to address each of our audiences - including contractors, plumbers, sprinkler fitters, irrigation personnel, backflow prevention assembly installers and testers, water utilities, water operators, inspectors and manufacturers - in each and every issue.

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Wednesday, June 7, 5-7 p.m.

Location: 101 Constitution Avenue, Suite 825 East, Washington, DC 20001

Congressional Briefing: The Critical Role Buildings Play in America's Infrastructure

Thursday, June 8, noon-1 p.m.

Location: 2103 Rayburn House Office Building

"As someone who spent his career designing buildings, I recognize the benefits of making our offices, schools, and homes more efficient by using innovative technologies and building materials," said Rep. David McKinley (R-WV), co-chair of the High-Performance Building Caucus. "Promoting efficiency and technology makes sense for consumers and taxpayers and will help the economy grow. High-Performance Building Week is a time to highlight the importance of energy efficiency, and shed a light on policies that will advance it."

Representative Peter Welch (D-VT), co-chair of the High-Performance Building Caucus, added: "As the co-chair of the High-Performance Building Congressional Caucus, I'm pleased to take part in High-Performance Building Week. This week is a great opportunity to raise awareness of the major impact buildings have on public health, safety, and the environment, and to discuss the challenges and opportunities we face in improving building performance. I thank my caucus co-chair, Rep. McKinley, for his work on these issues and look forward to learning more over the course of the week."

The High-Performance Buildings Caucus of the U.S. Congress was formed to heighten awareness and inform policymakers about the major impact buildings have on our health, safety, and welfare, and the opportunities to design, construct, and operate high-performance buildings that reflect our concern for these impacts. Fundamental to these concerns include protecting life and property, developing novel building technologies, facilitating and enhancing U.S. economic competitiveness, increasing energy efficiency in the built environment, assuring buildings have minimal climate change impacts and are able to respond to changes in the environment, and supporting the development of private sector standards, codes, and guidelines that address these concerns.

To view the full list of High-Performance Building Week 2017 events (and any last-minute changes) and RSVP, direct your web browser to <http://hpbccc.squarespace.com/events>.

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ASPE 2017 Tech Symposium
October 19-22, 2017 | Hotel Bonaventure Montréal | Montréal, Québec
REGISTRATION IS OPEN!
2017tech.aspe.org

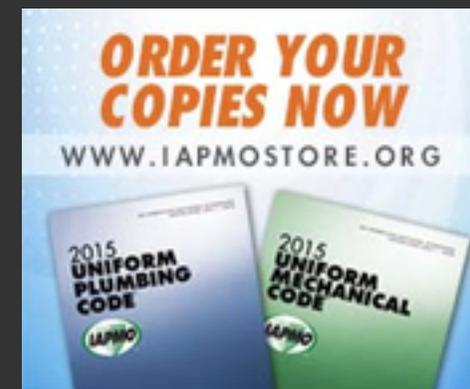
ASSE/ARCSA/IAPMO/ANSI Series 21000 Now Available

Professional Qualifications Standard for Rainwater Catchment Systems Personnel

ASSE/ARCSA/IAPMO/ANSI Series 21000-2017, Professional Qualifications Standard for Rainwater Catchment Systems Personnel, has been designated as an American National Standard by the American National Standards Institute (ANSI), and is now available for purchase.

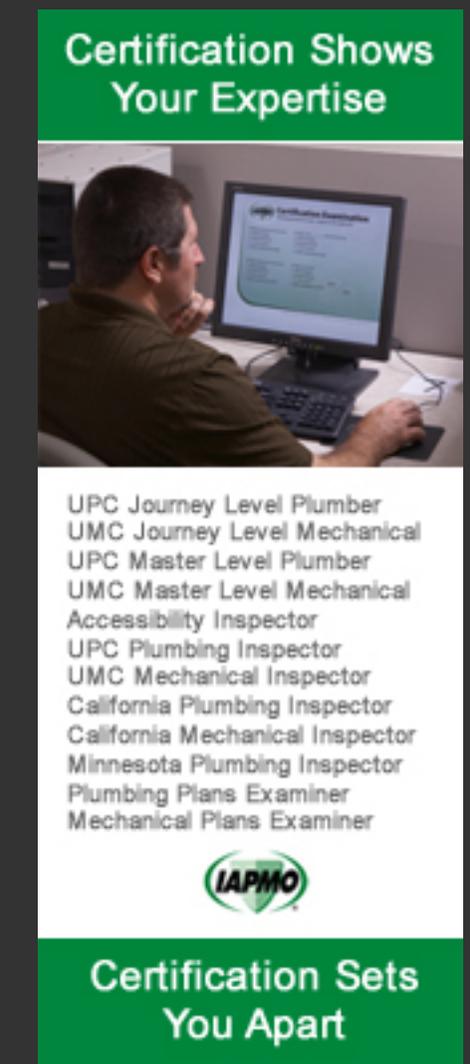
With an increasing number of residential, commercial, and industrial rainwater and stormwater systems being installed, there was a request for ASSE International to develop a standard for professionals who work on these systems. The result is the

(800-728-3426)

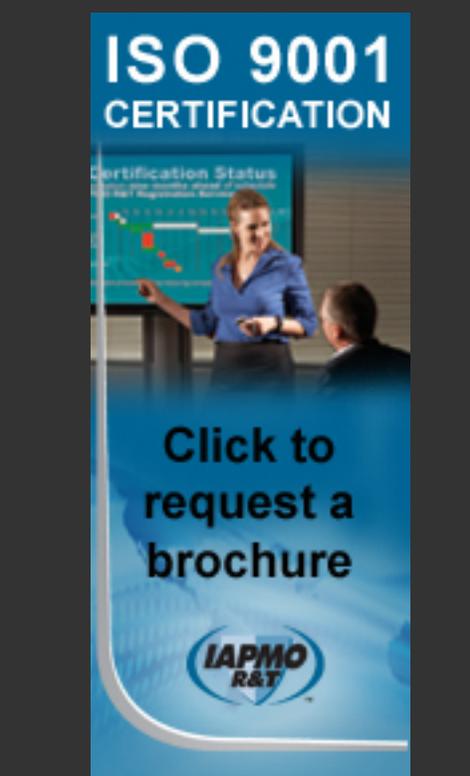


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voluntary, consensus ASSE/ARCSA/IAPMO/ANSI Series 21000, which contains the uniform minimum requirements for qualified designers and installers of rainwater catchment systems, and inspectors of rainwater/stormwater catchment systems.

The standards within ASSE/ARCSA/IAPMO/ANSI Series 21000 provide best practices for the design and installation of viable alternative water systems utilizing captured rainwater. These systems have the potential to bring potable water to areas that have development restrictions, depleted ground, or surface water sources or infrastructure that is unable to deliver suitable water quantities or qualities.

Read more: www.iapmonline.org/Documents/archive/20170529_ASSE-ARCSA-IAPMO-ANSI_21000.aspx

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IAPMO's Uniform Evaluation Service, Germany-based DIBt Sign MoU to Collaborate on Assessment Criteria

IAPMO's Uniform Evaluation Service (UES) and Berlin, Germany-based Deutsches Institut für Bautechnik (DIBt) have entered into a Memorandum of Understanding (MoU) with the goal of cooperation in the field of technical assessment of construction projects and construction systems, and the joint elaboration of assessment criteria taking account of regulatory and practical needs for uses in the United States, Europe and Germany.

Through this MoU, IAPMO UES and DIBt intend to cooperate particularly with regard to the exchange of information on assessment criteria and methods and, where relevant, specific use conditions applying in the USA and Germany; and the preparation of harmonized assessment procedures for non-standardized construction products available on the US-American and German market.

The cooperation may comprise mutual recognition of test reports of test laboratories accepted as being competent for assessment tests by IAPMO UES and DIBt. The cooperation may further comprise the support of common clients seeking relevant assessments and conformity marks for the U.S. and German market. IAPMO UES and DIBt will look to work together to facilitate an exchange of expertise in the field of technical assessment.

Read more: www.iapmonline.org/Documents/archive/20170515_UES-DIBt_MoU.aspx

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Uniform Evaluation Service Included in LADBS Pilot Program to Satisfy Seismic Requirements in Los Angeles and California

IAPMO's Uniform Evaluation Service's (UES) product evaluation program is going to start a pilot program with the Los Angeles Department of Building Safety (LADBS) in order to enhance customer service and facilitate seismic-related product approvals for the city of Los Angeles and state of California building codes. This program, when successfully completed, will add recognition for UES evaluation reports' seismic provisions to those already accepted by LADBS. Completion of the pilot program is anticipated on Jan. 1, 2018.

LADBS has been issuing Los Angeles Research Reports (LARR) based on a UES evaluation report since 2009 and the validity of UES reports has been confirmed repeatedly throughout the jurisdiction ever since.

UES evaluates and then documents findings in evaluation reports that summarize results

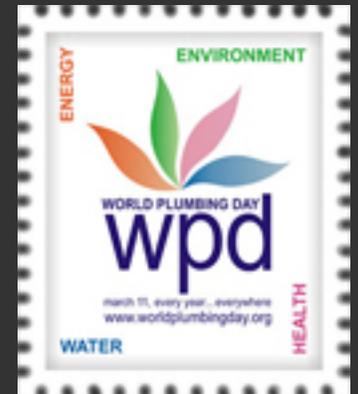
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and supporting documentation necessary to document code compliance and develop criteria only where necessary. UES' unique combination of customer service, technical expertise, and quick turnaround are just some of the reasons it is the fastest growing evaluation program in America.

Read more:

www.iapmonline.org/Documents/archive/20170515_UES_LADBS_Pilot_Program.aspx

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Berkeley Lab Helps California Get to Zero Net Energy Homes

California has established ambitious goals to reduce energy consumption in buildings, including a policy goal for all new residential buildings to be zero net energy (ZNE) by 2020. Now the Department of Energy's Lawrence Berkeley National Laboratory (Berkeley Lab) has launched two projects to help the state meet its ZNE building goals.

One project will provide detailed cost and performance modeling of ZNE homes and identify barriers while the other seeks to ensure acceptable indoor air quality in ZNE homes that use natural gas. The California Energy Commission (CEC) is providing \$2 million in funding for the two projects. The [DOE's Building America](#) program is also supporting the air quality project, the results of which will inform [DOE's Zero Energy Ready Home](#) program.

ZNE buildings essentially generate as much as they consume on an annualized basis, and California has led the way in the United States in laying the path towards ultra-low energy buildings. Carbon dioxide emissions from residential and commercial buildings make up about 23 percent of the state's overall greenhouse gas emissions, of which about 14 percent are from electricity generation sources and 9 percent from building heating fuels.

"Getting to zero net energy will be a process," said Berkeley Lab researcher Brett Singer, who is leading the air quality project. "These two projects will help the state with both its near-term ZNE goals as well as longer term strategy."

Read the full article: <http://newscenter.lbl.gov/2017/05/25/berkeley-lab-helps-california-get-zero-net-energy-homes/>

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April Construction Starts Retreat 13 Percent

Public Works Pulls Back After Elevated Activity in March

The value of new construction starts in April dropped 13% from the previous month to a seasonally adjusted annual rate of \$647.8 billion, according to Dodge Data & Analytics. The decline followed three straight months of gains, which saw total construction activity rising 20% from the lackluster amount reported back in December. Much of April's slide for total construction reflected a steep 39% plunge by its nonbuilding construction sector, which had been lifted in March by the start of two large pipeline projects — the \$4.2 billion Rover natural gas pipeline in Ohio and Michigan, and the \$2.5 billion Mariner East 2 propane and natural gas liquids pipeline in Pennsylvania. Meanwhile, residential building slipped a more moderate 5% in April, and nonresidential building receded only a slight 1% as it basically held steady with its pace in February and March. During the first four months of 2017 total construction starts on an unadjusted basis were \$213.9 billion, down 4% from last year's January-April period. If the volatile manufacturing plant and electric utility/gas plant categories are excluded, total construction starts during the first four months of 2017 would be up 4% compared

to last year.

April's data lowered the Dodge Index to 137 (2000=100), compared to 157 for March and the 152 average for the first quarter of 2017, yet still above December's 131. "The construction start pattern so far in 2017 can be characterized as three steps forward and one step back, as the often-hesitant pattern of the construction expansion continues," stated Robert A. Murray, chief economist for Dodge Data & Analytics.

Read the full news release: www.construction.com/news/april-construction-starts-retreat-13-percent-may-2017

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Flint Officials Take Additional Steps to Complete Water Service Turn-ons Sooner

Flint officials informed media last week that although staff at the Water Service Center, like many City departments, is stretched thin completing turn-on orders for water service is a priority.

"City crews have been working long hours to complete a number of jobs including water turn-ons due to short staffing," said Water Service Center Supervisor Rob Bincsik. "We have several different projects underway in Flint and crews are working seven days a week to keep up with the demands of the FAST Start pipe replacement program, cut and plugs for Land Bank properties, and scheduled orders."

To help expedite the completion of turn-on services throughout the City of Flint officials have made additional scheduling adjustments to meet residents' needs.

"We had to delay some repair work that needs to be done and assigned those crews to complete turn-ons instead," said Mayor Weaver. "We don't want people to be without water especially if they've done everything needed to activate water services. We've talked with our representatives in Customer Service and they have started rescheduling the new application turn-ons."

Representatives contacted customers and rescheduled turn-on service for as early as Thursday and Friday of this week for the customers who were available.

"I want to thank our City employees for their continued hard work and dedication," said Mayor Weaver. "I'd also like to thank the residents of Flint for their patience and understanding."

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ASSE International Calls for Scald Awareness Task Group Members

The ASSE International Scald Awareness Task Group, reforming to develop a white paper concerning recommended procedures for replacing residential water heaters to reduce the danger of scalding, is now accepting applications.

This white paper will follow the Task Group's four previous publications, "Guidelines for Temperature Control Devices in Domestic Hot Water Systems," "Adjustment of Automatic Compensating Valves to Prevent Potential Scald Hazards," "Understanding Potential Water Heater Scald Hazards," and "Scald Hazards Associated with Low-Flow Showerheads."

"Often times, water heaters are replaced by contractors or plumbers who make no attempt to reduce, or remedy, potential scald-causing conditions," said Scald Awareness Task Group Chairperson Richard J. Prospal. "The goal of this new task group will be to discuss how contractors can be equipped to protect against scald hazards, and provide a

set of guidelines for replacing residential water heaters to reduce potential scald hazards."

Read more:

www.iapmonline.org/Documents/archive/20170515_Scald_Awareness_Task_Group.aspx

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3-D Printing Offers New Approach to Making Buildings

The list of materials that can be produced by 3-D printing has grown to include not just plastics but also metal, glass, and even food. Now, MIT researchers are expanding the list further, with the design of a system that can 3-D print the basic structure of an entire building.

Structures built with this system could be produced faster and less expensively than traditional construction methods allow, the researchers say. A building could also be completely customized to the needs of a particular site and the desires of its maker. Even the internal structure could be modified in new ways; different materials could be incorporated as the process goes along, and material density could be varied to provide optimum combinations of strength, insulation, or other properties.

Ultimately, the researchers say, this approach could enable the design and construction of new kinds of buildings that would not be feasible with traditional building methods.

The robotic system is described this week in the journal *Science Robotics*, in a paper by Steven Keating PhD '16, a mechanical engineering graduate and former research affiliate in the Mediated Matter group at the MIT Media Lab; Julian Leland and Levi Cai, both research assistants in the Mediated Matter group; and Neri Oxman, group director and associate professor of media arts and sciences.

The system consists of a tracked vehicle that carries a large, industrial robotic arm, which has a smaller, precision-motion robotic arm at its end. This highly controllable arm can then be used to direct any conventional (or unconventional) construction nozzle, such as those used for pouring concrete or spraying insulation material, as well as additional digital fabrication end effectors, such as a milling head.

Read the full story: <http://news.mit.edu/2017/3-d-printing-buildings-0426>

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Wanted: Top Toilets for Cintas' Annual America's Best Restroom Contest

Nominations are open now through July 28

Do you know a business that takes pride in their public potties? Nominate them for Cintas Corporation (NASDAQ: CTAS) 16th annual America's Best Restroom Contest by visiting www.bestrestroom.com/us. The contest shines a spotlight on deserving public restrooms and awards the winner with \$2,500 in facility services or restroom cleaning.

From spectacular sinks to enticing entrances, Cintas is looking for the restroom that tops your list when you really gotta go. If you've ever visited a restroom not to use it, but to see its uniquely-designed stalls or charming chandeliers, then Cintas wants to hear about it.

"Public restrooms don't often receive a lot of praise, so we want to recognize the most talked about toilets that are known for their super clean stalls and innovative design," said Jillian Bauer, Marketing Spokesperson, Cintas. "The America's Best Restroom Contest creates nationwide awareness about your business, and serves as an effective

tool that shows customers that you care about providing a well-maintained and memorable restroom, which keeps them coming back."

Read the full release: <http://www.bestrestroom.com/us/press/wanted-top-toilets-for-cintas-annual-abr-contest.asp>

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NABCEP Introduces New Solar Heating and PV System Inspector Credentials

Click here to read more about this new credential.

NABCEP Adds Solar Heating System Inspector and PV System Inspector Certifications to its Industry-Leading Programs

The North American Board of Certified Energy Practitioners (NABCEP) announced the addition of Solar Heating System Inspector (SHSI) and Photovoltaic System Inspector (PVSI) Certifications to its industry-leading programs. Unlike many of NABCEP's other certifications, there are no specific pre-requisites for taking a NABCEP PV or Solar Heating System Inspector Exam, and the test can be taken online from anywhere that has a stable internet connection.

Inspectors play a critical role in ensuring quality renewable energy installations. These new credentials are meant to provide a mechanism for inspection professionals to demonstrate their knowledge of PV and Solar Heating systems.

NABCEP PV and Solar Heating System Inspector certifications are intended for individuals performing system inspections for Authorities Having Jurisdiction (AHJ's), utilities, incentive programs, investors, and others involved in quality assurance and code compliance of PV and Solar Heating system installations.

To become a NABCEP System Inspector and maintain the credential, applicants must have knowledge of applicable codes and ordinances, be able to identify all system components and understand how to assess the safety and operation of a system. Interpretation of design plans and building documents, conducting on-site inspections, and reporting results will each be part of System Inspector examinations.

For more information click here: www.nabcep.org/pv-and-solar-heating-system-inspector-certification-programs

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Plumbing Manufacturers International Names Trade Association Leader Kerry Stackpole as CEO and Executive Director

Plumbing Manufacturers International (PMI), the trade association promoting water efficiency, health, safety, quality and the environmental sustainability of plumbing products worldwide, today announced that it has appointed Kerry Stackpole, FASAE, CAE, as Chief Executive Officer and Executive Director, effective June 12, 2017.

Stackpole has spent over two decades leading trade associations in manufacturing, technology and services. His leadership helped grow technology associations from start-up into multi-million-dollar entities and established their positions as leading industry organizations.

Most recently, Stackpole served as an advance team leader for the Executive Office of

the President, working both domestically and internationally to execute events on behalf of the President and Vice President of the United States. Prior to the White House, he was President and CEO of Printing and Graphics Association Mid-Atlantic, crafting the association's award-winning marketing campaign and driving its merger with Printing Industries of Virginia. He has also served as CEO of four other trade associations and as an interim CEO and strategy consultant to professional groups.

Read the full story: www.safep plumbing.org/news/pmi-press-releases/article/pmi-names-ceo-executive-director

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Industry Calendar

88th Annual Education and Business Conference
September 24 - 28, 2017
Anchorage, AK
www.iapmo.org

WaterSmart Innovations 2017
October 4-6, 2017
Las Vegas, NV
www.watersmartinnovations.com

PHCC Connect 2017
October 4-6, 2017
Milwaukee, WI
www.phccweb.org/connect

ASPE 2017 Tech Symposium
October 19-22, 2017
Montréal, Québec
<http://2017tech.aspe.org/>

Upcoming Seminars

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ALASKA SEMINARS		
July 14, 2017	Anchorage, AK	2012 IMC Essentials Workshop
July 15, 2017	Anchorage, AK	2012 UPC Essentials Workshop
ARIZONA SEMINARS		
June 26-30, 2017	Phoenix, AZ	2016 ASSE 5110 Backflow Tester 40 Hour Class and Exam
June 30, 2017	Phoenix, AZ	Cross Connection Control Recertification - 8 hr Course and Exam
July 24-28, 2017	Phoenix, AZ	2016 ASSE 5110 Backflow Tester 40 Hour Class and Exam
July 28, 2017	Phoenix, AZ	Cross Connection Control Recertification - 8 hr Course and Exam
CALIFORNIA SEMINARS		
June 12-16, 2017	Ontario, CA	ASSE 5110 Backflow Tester 40 Hour Class and Exam
June 16, 2017	Ontario, CA	Cross Connection Control Recertification - 8 hr Course and Exam
August 7-11, 2017	Ontario, CA	ASSE 5110 Backflow Tester 40 Hour Class and Exam
August 11, 2017	Ontario, CA	Cross Connection Control Recertification - 8 hr Course and Exam
COLORADO SEMINARS		
July 19-21, 2017	Lakewood, CO	ASSE Backflow Prevention Assembly Repairer Training and Certification Examination Class
August 14-18, 2017	Grand Junction, CO	ASSE 5110 Backflow Tester 40 Hour Class and Exam
August 18-19, 2017	Grand Junction, CO	Cross Connection Control Recertification - 12 hr course and Exam
LOUISIANA SEMINARS		
July 16, 2017	Baton Rouge, LA	ASSE Recertification / WSPS Conversion Class
July 17-21, 2017	Baton Rouge, LA	ASSE 5110 Backflow Tester 40 Hour Class and Exam
MASSACHUSETTS SEMINARS		
Session 9 Training now available - click here for the schedule!		

MINNESOTA SEMINARS

2015 Minnesota Plumbing Code Sizing and Code Application Workshop

July 10-13, 2017	Anoka, MN	ASSE 5110 Backflow Tester 40 Hour Class and Exam
July 13, 2017	Anoka, MN	Cross Connection Control Recertification - 8 hr Course and Exam

SOUTH DAKOTA SEMINARS

[Click Here to Find a Class](#)

OKLAHOMA SEMINARS

May 13, 2017	Oklahoma City, OK	ASSE Cross Connection Control Recertification - 8 hr course and Exam
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PENNSYLVANIA SEMINARS

June 19-23, 2017	Scranton, PA	ASSE 5110 Backflow Tester 40 Hour Class and Exam
June 23, 2017	Scranton, PA	ASSE 5110 Cross Connection Control Recertification - 8 hr course and Exam

VIRGINIA SEMINARS

June 26-30, 2017	The Joyce Agency Chantilly, VA	ASSE 5110 Backflow Tester 40 Hour Class and Exam
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