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## **IAPMO Standards Council Denies Issuance of TIAs UPC-003-12 and UPC-004-12**

The IAPMO Standards Council on Jan. 22 denied issuance of two Tentative Interim Amendments affecting the *2012 Uniform Plumbing Code (UPC®)*, TIAs UPC-003-12 and UPC-004-12.

TIA UPC-003-12 requested new language to Section 408.6 "Shower Compartments." The proposed TIA was balloted through the Plumbing Technical Committee in accordance with the Regulations Governing Committee Projects to determine if there existed the necessary three-fourths majority support on technical merit and emergency nature to establish the recommendation for issuance. The ballot fell short on both accounts.

TIA UPC-004-12 requested new language to Section 1007.1 "General." The proposed TIA was similarly balloted through the Plumbing Technical Committee and also fell short on technical merit and emergency nature.

Although the Standards Council may overturn the Technical Committee's recommendation if clear and substantial reasons exist to do so, it found no such reasons in either case and hence denied issuance of both TIAs.

TIAs are proposals based on the determination of an emergency nature requiring

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prompt action to amend code that contains an error or omission that was overlooked during the regular code development process, contains a conflict within the document or with another IAPMO document, or to correct a hazard, promote an advancement in safeguarding the public or provide an opportunity to correct an adverse impact on a product or method of installation.

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## The Need for World Plumbing Day Remains as Great as Ever

*Originally published in the February 2015 SNIPEF Chief Executive's Blog, by Robert Burgon, CEO of the Scottish and Northern Ireland Plumbing Employers' Federation (SNIPEF)*

Established in 2010 to raise awareness across the world that plumbing is important and needs to be treated seriously, World Plumbing Day will be celebrated for the sixth time on March 11, 2015.

The issues that are relevant to this annual event vary dramatically from country to country. In developing nations, basic plumbing systems, as known in places like the United Kingdom and United States, often don't exist. Our TV screens regularly show the tragedy of situations such as those in India, where electrical appliances including TVs and mobile phones are more likely to be seen in some homes than a toilet. Even where sanitary facilities have been provided (often by international charities), it isn't unusual for people to ignore them and continue to use the great outdoors as their toilet. In situations like this, it is education rather than infrastructure that is required. Good progress has been made in achieving targets for increased access to supplies of good water in developing countries, although the problems with lack of sanitation remain serious and are a major contributor to deaths, particularly among the young and the infirm.

For most people living in the United Kingdom and United States today, the days of no water supply and outside privies are either a very distant memory or something that one is only aware of through films and the tales of our grandparents. However, it is still the case that these basic necessities of life and good health are generally taken for granted and the role of the plumber in installing and maintaining these systems is either totally ignored or simply not appreciated. Although we are unlikely to see headlines announcing that "poor plumbing can kill," that is the reality of the situation with increasing evidence of deaths, even in developed countries, resulting from poor plumbing - legionella and cross-connections being two of the causes.

Too many people today still look down on the lowly plumber with contempt, rather than respecting the role they play as one of our society's health workers. Although there has been an improvement in the caliber and educational background of young people choosing plumbing as their career in recent times, negative impressions still abound in our schools. One SNIPEF member recently reported back from a secondary school careers event that the majority of young people he spoke to did not see plumbing as a career they would choose to follow.

World Plumbing Day is merely one day of the year when the industry is encouraged to stand up and make a noise about the valuable role played by our industry in the hope that the media and ordinary people will spot the activity and come to a realization that we are an industry not to be taken for granted. We must all hope that the foundations of the first five World Plumbing Days will be strengthened in 2015, and that over the decades ahead, the need for the industry to plead to be taken seriously will diminish.

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### 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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## Johnson Controls Partners With UW-Madison to Reduce Commercial Energy Costs

Johnson Controls began when founder Warren Johnson invented the thermostat in 1885, and today the Milwaukee-based controls company is working toward another major innovation in heating and cooling in collaboration with UW-Madison chemical engineers.

A research group led by **Jim Rawlings**, the Paul A. Elfers professor and W. Harmon Ray professor of chemical and biological engineering, has partnered with **Johnson Controls** to develop better HVAC control systems for its clients in large commercial buildings.

"Twenty percent of total U.S. energy consumption is commercial buildings," Rawlings says. "And half of that is education and office spaces."

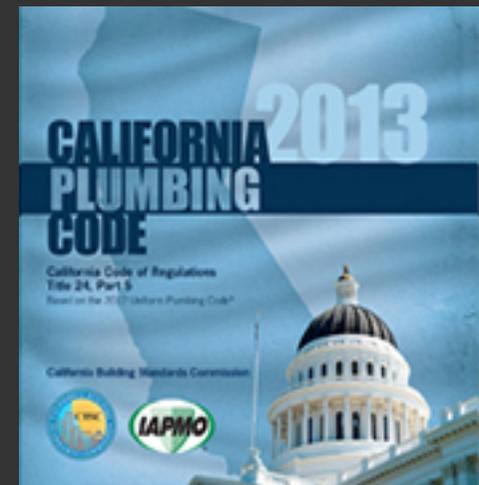
The project — which is being tested at various sites, including the Johnson Controls building in Milwaukee and buildings on the Stanford University campus — will serve as a foundation for advancing HVAC control systems in general. Rawlings, chemical and biological engineering Professor **Christos Maravelias** and Ph.D. students **Michael Risbeck** and **Nishith Patel** are developing algorithms that will enable building managers to harness a broad range of data to run their HVAC systems more efficiently.

Building managers haven't always had much data to inform decisions about heating and cooling, says Rawlings, but in recent years, it's become easier to acquire the kind of data that work well for chemical engineering-related control processes. These data include energy pricing, weather forecasts, worker hours and the impacts of other potential heat sources in a building.

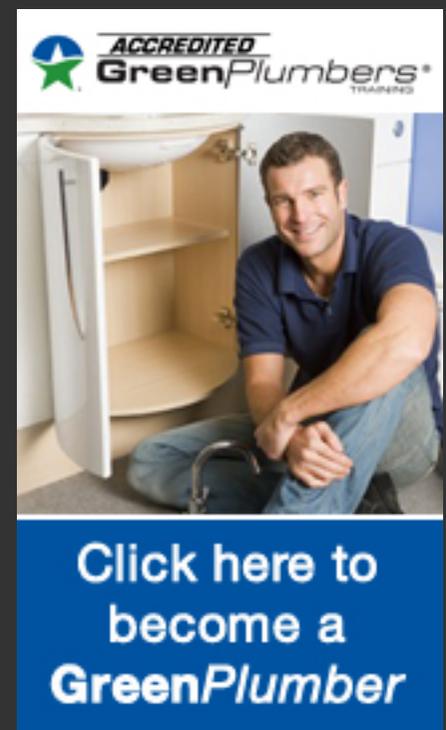
However, despite the availability of data, there is still no standard way to put together an HVAC system for a large building, and even within one building, that system might be composed of many disparate pieces of equipment and several different software control systems. To analyze and control the system as a whole — or optimize heating and cooling across an entire campus of buildings — the control framework has to be agnostic to the size and makeup of the system. The UW-Madison researchers are using a process-control method called model predictive control, which involves forecasting the future behavior of a system and taking those forecasts into account to make real-time adjustments.

"In the chemical industry, optimization has been a much more important part in the operation of chemical plants, because that's your profitability, that's the goal of the business," Rawlings says. "So what the HVAC industry is able to do now is take advantage of all that development over the last 20 or 30 years in the chemical industry and bring it over to buildings."

As the optimization algorithms pass through different revisions and iterations, Rawlings and his group gain an increasingly nuanced understanding of the real-world contexts in which their ideas are used. "You know how the building is running and you can look at how it ran a year ago, two years ago, 10 years ago, and you can detect things like equipment that is degrading, and you can find out what the use patterns



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are," Rawlings says. "You can find out that over time, energy use in this building is rising or dropping, and you can start to ask what-if questions."

Robert Turney, a Johnson Controls engineer and technical lead on the project, says the work is driven by client interest in cutting costs while implementing lofty goals for energy efficiency. He credits the UW-Madison researchers with helping the controls industry seize on new possibilities.

"I count on the university to be the pioneer in solving HVAC problems in new and innovative ways," says Turney. "It's an infusion of high-tech into a low-tech space."

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## January Construction Climbs 9 Percent

The value of new construction starts climbed 9% in January to a seasonally adjusted annual rate of \$621.0 billion, according to Dodge Data & Analytics. The increase for total construction was the result of an especially strong performance by the nonbuilding construction sector, which benefitted from the start of a massive liquefied natural gas terminal facility in Texas. Meanwhile, nonresidential building lost momentum for the second month in a row and residential building pulled back due to a slower pace for multifamily housing. On an unadjusted basis, total construction starts in January were reported at \$43.2 billion, up 18% from the same month a year ago.

The January statistics raised the Dodge Index to 131 (2000=100), compared to 120 for December although still short of the most recent high of 143 reached in November. For the full year 2014, the Dodge Index averaged 122. "During 2014 and now early 2015, the month-to-month pattern for construction starts has often reflected the presence or absence of exceptionally large projects," stated Robert A. Murray, chief economist for Dodge Data & Analytics. "For much of 2014, a substantial share of this work was petrochemical-related, such as a \$3.0 billion Exxon petrochemical plant expansion in Texas. Towards the end of last year, a pickup in liquefied natural gas-related facilities emerged, led by the start of the \$3.6 billion Dominion Cove Point Liquefaction Project in Maryland, and January included \$6.0 billion estimated for the start of two segments of a huge liquefied natural gas export facility in Texas. The month-to-month variation for overall construction starts is taking place around what is still a rising trend. For nonresidential building, the continued improvement by its commercial and now its institutional project types should enable this sector to register more growth in 2015, notwithstanding a sluggish January. For residential building, the strengthening job market and some easing of lending standards for home mortgages are expected to help single family housing see moderate improvement relative to a flat 2014."

Read the full report: <http://construction.com/about-us/press/January-Construction-Climbs-9-Percent.asp>

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## Harmonized ASSE 1037-2015/ASME A112.1037-2015/CSA B125.37-15 Now Available

ASSE 1037-2015/ASME A112.1037-2015/CSA B125.37-15, Performance Requirements for Pressurized Flushing Devices for Plumbing Fixtures, has been approved by the American National Standards Institute (ANSI) and is now available for purchase.

This standard results from a harmonization agreement between three premiere North American standards development organizations – the American Society of Mechanical Engineers (ASME), ASSE International and CSA Group. This agreement, which

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California Mechanical Inspector  
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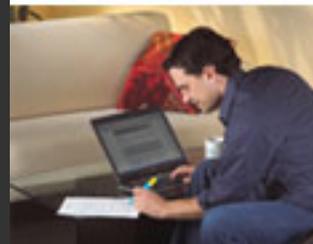
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details the harmonization of four product performance standards, was designed to bring clarity to the international plumbing community and help reduce costs for manufacturers and consumers. The first ASME/ASSE/CSA harmonized standard, ASSE 1016-2011/ASME A112.1016-2011/CSA B125.16-11, was published in July 2011.

ASSE 1037-2015/ASME A112.1037-2015/CSA B125.37-15, which covers pressurized flushing devices (PFDs) intended to flush water closets, urinals and other plumbing fixtures, establishes unified performance requirements for the safe and sanitary operation of these devices and specifies requirements for materials, design, methods of operation, test methods and markings.

"Harmonization of performance requirements benefits U.S. and Canadian manufacturers, as well as testing and certification agencies, by eliminating different requirements for the same product offered in both countries," said ASME/ASSE/CSA Harmonization Task Group Co-Chair Mark Malatesta. "Harmonization efforts also benefit plumbing code developers and plumbing code enforcement agencies by allowing for one product standard to be referenced. This harmonization allows pressurized flushing devices to be designed, manufactured and tested to a common standard, providing assurance of consistent, high-quality products and a common basis for comparison."

This standard was prepared by the ASSE/ASME/CSA Harmonization Task Group on Plumbing Fittings, under the jurisdiction of the ASME A112 Standards Committee on Plumbing Materials and Equipment, the ASSE International Product Standards Committee and the CSA Technical Committee on Plumbing Fittings.

This harmonized standard supersedes the previous editions of ASSE 1037, published in 1990 and 1986, and CSA B125.3, published in 2012, 2011 and 2005. To purchase the ANSI-approved ASSE 1037-2015/ASME A112.1037-2015/CSA B125.37-15, please visit [stores.assewebstore.com](http://stores.assewebstore.com), [asme.org/shop](http://asme.org/shop), or shop [csa.ca](http://csa.ca).

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## CONTRACTOR Announces 2015 Industry Luminaries

CONTRACTOR Magazine has announced their selection of "the most passionate and committed professionals in the plumbing and hydronics industries." Among them is IAPMO Board Member Laura Biggie — congratulations Ms. Biggie, well deserved.

From CONTRACTOR Magazine:

*Laura Biggie is a commercial plumbing inspector and training officer at the Los Angeles Department of Building and Safety. She teaches residential and commercial inspectors all aspects of plumbing code and inspection practices. Biggie serves on the Education and Training Committee and the Publications Committee for IAPMO. She is vice chairman for the Los Angeles Chapter of IAPMO. Biggie began her career in the plumbing apprenticeship program 16 years ago, becoming a journey level plumber, pipefitter, certified brazer and medical gas installer. She earned her bachelor's degree in education from the National Labor College. Biggie's engaging spirit and passion for plumbing has made her classes popular. Her experience in the trades and education at UCLA Extension led her to work as a project engineer for several general contractors and a project estimator for a design build contractor before becoming a commercial plumbing inspector. She is now the plumbing training officer for the city of Los Angeles.*

The full list can be viewed at <http://contractormag.com/media-galleries/introducing-contractors-2015-industry-luminaries>

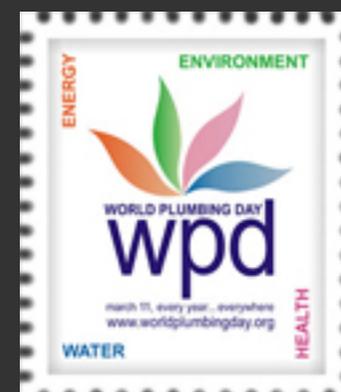
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## **Rawalpindiwala Receives Patrick J. Higgins Medal at ASME A112 Plumbing Materials & Equipment Meeting**

IAPMO Green Technical Committee member Shabbir Rawalpindiwala recently received the prestigious Patrick J. Higgins Medal at the ASME A112 Plumbing Materials & Equipment Meeting in San Antonio. Pete DeMarco, senior vice president of Advocacy and Research for The IAPMO Group, presented the award to Rawalpindiwala on Jan. 29.

The Board on Standardization & Testing established the award to honor Patrick J. Higgins, a longtime chairman of the A112 Committee on Plumbing Materials & Equipment and a member of the Board on Standardization. The award, first given out in 2008, recognizes an individual who has contributed to the enhancement of standardization through participation in the development and promotion of ASME codes and standards or conformity assessment programs in a number of areas.

Rawalpindiwala, the manager of Codes & Standards for Kohler Co., is a former director of Standards and director of Quality Control for IAPMO.

"I am very grateful to ASME for presenting me with this award," Rawalpindiwala said. "Beyond the recognition of my work at ASME, this medal has an additional special meaning to me due to the close friendship I enjoyed with Pat Higgins."

DeMarco, a member of the A112 Committee on Plumbing and Materials who is also the chairman of the Patrick J. Higgins Award Committee, said it was an honor and a pleasure to present the medal.

"Shabbir has made countless contributions toward advancing standardization in the plumbing industry and is most deserving of this award," he said. "Without a doubt, Pat Higgins would be very pleased to know that the award bearing his name was presented to Shabbir."

ASME is a not-for-profit membership organization that enables collaboration, knowledge sharing, career enrichment, and skills development across all engineering disciplines, toward a goal of helping the global engineering community develop solutions to benefit lives and livelihoods. Founded in 1880 by a small group of leading industrialists, ASME has grown through the decades to include more than 140,000 members in 151 countries. Thirty thousand of these members are students.

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## **Proposed Plumbing Industry Standards Open for Public Comment**

The American Society of Plumbing Engineers (ASPE) has released two new draft standards for public review.

*ARCSA/ASPE 78: Stormwater Harvesting System Design for Direct End-Use Applications*, developed with the American Rainwater Catchment Systems Association, covers onsite, single-property stormwater catchment systems that collect and use precipitation or rain from non-rooftop and other impervious surfaces at, below, and above grade. This standard provides guidance on how to design, install, and maintain this safe alternative to utility-provided water.

*WQA/ASPE 1201: Electrochemical Drinking Water Treatment Systems*, developed with the Water Quality Association, covers point-of-use or point-of-entry treatment systems that utilize electrochemical technology to treat water meant for human

consumption as well as water used in certain commercial and industrial applications that have water quality needs similar to drinking water. This standard establishes minimum requirements for material safety, structural integrity, performance, literature, and labeling, as well as optional performance claims.

Public comments on both standards will be accepted until 5:00 p.m. EDT on April 13, 2015.

Drafts of the standards and the public comment forms can be found at [aspe.org/publicreview](http://aspe.org/publicreview)

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## Alaska, Oregon IAPMO Chapters Install New Officers



The IAPMO Alaska Chapter installed their new officers at their January meeting. Installed to office was Jim Jarwoski as Vice Chairman (pictured right), Don McCann as Secretary/Treasurer (left), and Dave Miller as Chairman (not pictured). They were installed into office by Immediate past president, Gary Hile.

The Alaska Chapters next meeting is scheduled for March 17th. Check the chapter web page for more details: [www.iapmomembership.org/chapters/ak](http://www.iapmomembership.org/chapters/ak)



Also recently installed were the Oregon Cascade chapter officers. From left to right: Joe McNelly, Secretary; Garth Bentley, Chairman; Reg Parnell, Vice Chairman; Melissa Gitt, Treasurer. The 2015 officers were installed by Jed Scheuermann on January 22nd.

Their next regular meeting will be on March 19th. Check the chapter web page address for location and meeting time: [www.iapmomembership.org/chapters/orcas](http://www.iapmomembership.org/chapters/orcas).

Looking for a chapter near you? Visit [www.iapmomembership.org/chapters](http://www.iapmomembership.org/chapters) and select

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## ASSE/IAPMO/ANSI Series 13000-2015 Now Available

ASSE/IAPMO/ANSI Series 13000-2015, Service Plumber and Residential Mechanical Service Technician Professional Qualifications Standard, has been approved by the American National Standards Institute (ANSI) and is now available for purchase.

With the increasing complexity of our nation's residential plumbing and mechanical systems, ASSE International and the International Association of Plumbing and Mechanical Officials (IAPMO) recognized the need to establish a level of competency necessary for the installation, inspection and maintenance of sustainable plumbing and mechanical systems. As such, the ASSE/IAPMO/ANSI Series 13000 was developed to institute a minimum level of practical experience and knowledge for an individual to demonstrate competency as a service plumber or residential mechanical service technician to protect public health, safety and the environment.

"With the emergence of sustainable technologies, added to the wide array of existing plumbing systems across the country, the importance of having a properly educated, experienced and dedicated workforce of professional service plumbers and residential mechanical service technicians has never been higher," said ASSE International President and Series 13000 Working Group Chairman Douglas A. Marian. "By setting the minimum knowledge requirements relating to customer service, products, systems, installation and documentation, along with the minimum level of practical experience required to service, maintain and repair plumbing systems and residential mechanical systems, employers, business owners and home owners now have a basis for determining whether a service plumber or mechanical service technician is qualified to safely, effectively and efficiently work in our nation's homes and businesses."

The ASSE/IAPMO/ANSI Series 13000 contains two standards: ASSE Standard 13010, Professional Qualifications Standard for the Service Plumber, which includes general knowledge requirements and performance criteria for individuals who service, maintain and repair plumbing systems, and ASSE Standard 13020, Professional Qualifications Standard for the Residential Mechanical Service Technician, which includes general knowledge requirements and performance criteria for individuals who service, maintain and repair residential mechanical systems. The standard series also features two appendices, including an expansive collection of service plumbing and mechanical service vocabulary and definitions.

To purchase the ANSI-approved ASSE/IAPMO/ANSI Series 13000-2015, please visit the ASSE International Webstore at [stores.assewebstore.com](http://stores.assewebstore.com). For questions regarding the Series 13000, contact Marianne Waickman, ASSE International professional qualifications coordinator, by email at [marianne.waickman@asse-plumbing.org](mailto:marianne.waickman@asse-plumbing.org) or by telephone at (708) 995-3015.

## Industry Calendar

**World Plumbing Day**  
March 11, 2015  
[www.worldplumbingday.org/](http://www.worldplumbingday.org/)

**Green Technical Committee Meeting**  
April 9-10, 2015  
Ontario, CA  
[www.iapmo.org](http://www.iapmo.org)

**ASSE Mid-Year Meeting**  
April 13-15, 2015  
Ontario, CA  
[www.asse-plumbing.org](http://www.asse-plumbing.org)

**86th Annual Education and Business Conference**  
Sept. 27 - Oct. 1, 2015  
Las Vegas, NV  
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### Upcoming Seminars

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<b>ARIZONA SEMINARS</b>		
March 23-27-2015	Phoenix, AZ	Backflow Prevention Assembly Tester 40 hr Course and Exam
March 27, 2015	Phoenix, AZ	Cross Connection Control Recertification - 8 hr Course and Exam
<b>CALIFORNIA SEMINARS</b>		
March 23-27, 2015	Ontario, CA	Backflow Prevention Assembly Tester 40 hr Course and Exam
March 27, 2015	Ontario, CA	Cross Connection Control Recertification - 8 hr Course and Exam
March 30 - April 5, 2015	Paso Robles, CA	Backflow Prevention Assembly Tester 40 hr Course and Exam
<b>COLORADO SEMINARS</b>		
March 16-20, 2015	Denver, CO	Backflow Prevention Assembly Tester 40 hr course and Exam
March 21, 2015	Denver, CO	Cross Connection Control Recertification - 8 hr Course and Exam
<b>MAINE SEMINARS</b>		
April 20-24, 2015	Agusta, ME	Backflow Prevention Assembly Tester 40 hr Course and Exam
<b>MASSACHUSETTS SEMINARS</b>		
<a href="#">Session 7 Training now available - click here for schedule</a>		
<b>MINNESOTA SEMINARS</b>		
March 9-13, 2015	Little Falls, MN	ASSE 5110 Backflow Tester Class 40 hours
March 9-12, 2015	Little Falls, MN	Minnesota Rebuilder Certification to ASSE 5110 Tester and ASSE 5130 Repairer Certification
March 9-11, 2015	Little Falls, MN	Minnesota Tester to ASSE 5110 Tester Certification
March 23-27, 2015	Anoka, MN	ASSE 5110 Backflow Tester Class 40 hours
March 30, 2015	Anoka, MN	State of MN Education
April 13-16, 2015	Elbow Lake, MN	Minnesota Rebuilder Certification to ASSE 5110 Tester and ASSE 5130 Repairer Certification
April 13-17, 2015	Elbow Lake, MN	ASSE 5110 Backflow Tester Class 40 hours
April 13-15, 2015	Elbow Lake, MN	Minnesota Tester to ASSE 5110 Tester Certification
<b>NEVADA SEMINARS</b>		
March 9-13, 2015	Las Vegas, NV	EduCode 2015 - Las Vegas, NV
<b>SOUTH DAKOTA SEMINARS</b>		
March 5, 2015	Rapid City, SD	2015 South Dakota Continuing Education - Plumbing
March 5, 2015	North Sioux City, SD	2015 South Dakota Continuing Education - Plumbing

March 9, 2015	Sioux Falls, SD	2015 South Dakota Continuing Education - Plumbing
March 10, 2015	Spearfish, SD	2015 South Dakota Continuing Education - Plumbing
March 11, 2015	Sioux Falls, SD	2015 South Dakota Continuing Education - Plumbing
March 12, 2015	Rapid City, SD	2015 South Dakota Continuing Education - Plumbing
March 16, 2015	Sioux Falls, SD	2015 South Dakota Continuing Education - Plumbing
March 18, 2015	Sioux Falls, SD	2015 South Dakota Continuing Education - Plumbing
March 18, 2015	Aberdeen, SD	2015 South Dakota Continuing Education - Plumbing
March 19, 2015	Watertown, SD	2015 South Dakota Continuing Education - Plumbing
March 19, 2015	Mobridge, SD	2015 South Dakota Continuing Education - Plumbing
March 23, 2015	Pierre, SD	2015 South Dakota Continuing Education - Plumbing
March 24, 2015	Winner, SD	2015 South Dakota Continuing Education - Plumbing
March 24, 2015	Brookings, SD	2015 South Dakota Continuing Education - Plumbing
March 25, 2015	Mitchell, SD	2015 South Dakota Continuing Education - Plumbing
March 26, 2015	Huron, SD	2015 South Dakota Continuing Education - Plumbing

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