



December 2018 | HEADLINES

CONTACT US

- » IAPMO Seeks Committee Members for the National Adoption of ISO 30500 as an American National Standard (ANS) and National Standard of Canada (NSC)
- » New Alloy to Solve Lead Problem in Drinking Water
- » IAPMO R&T Accredited by ANAB to Certify to AS 9100D
- » EPA Seeks Public Input on Draft Toxicity Assessments for PFAS Chemicals
- » Dodge Momentum Index Increases in November
- » Orange County Health Official Blames Disneyland Cooling Towers for Legionnaires' Disease Outbreak
- » CA Building Standards Commission Approves Residential Solar Mandate
- » Flint's FAST Start Program Completes 18,313 Excavations, But Not Without Criticism
- » IAPMO R&T Adds Shannon Ethridge as Toxicologist

International Association
of Plumbing and Mechanical
Officials

4755 E. Philadelphia St.
Ontario, CA 91761 USA
Phone: 1-909-472-4100

Fax: 909-472-4150

E-mail: iapmo@iapmo.org
Website: www.iapmo.org

IAPMO's Codes & Services
Department toll-free phone number:
1-800-85-IAPMO
1(800-854-2766)
Publications - ext 1
Education/Seminars - ext 2
Inspector & Contractor
Certification - ext 3
Code Development
Questions - ext 4
Code Questions - ext 5
Membership - ext 6

Follow IAPMO:



OFFICIAL MAGAZINE



NOW AVAILABLE ONLINE!
A subscription to Official is just one

IAPMO Seeks Committee Members for the National Adoption of ISO 30500 as an American National Standard (ANS) and National Standard of Canada (NSC)

IAPMO® is seeking volunteers with a technical background in non-sewered sanitation systems (NSSS), such as jurisdictional authorities, testing lab and educational facility representatives, and manufacturing experts, to participate on the technical committee for the national adoption of ISO 30500. The standard, *Non-sewered sanitation systems – Prefabricated integrated treatment units – General safety and performance requirements for design and testing*, is an international standard developed by 32 participating economies and 16 observing members. ISO 30500 was published in early October 2018.

The ISO 30500 standard specifies general safety and performance requirements for design and testing, as well as sustainability considerations, for non-sewered sanitation systems. An NSSS, for the purposes of this document, is a prefabricated integrated treatment unit comprising frontend (toilet facility) and backend (treatment facility) components. It is applicable to sanitation systems that are either manufactured as one package or manufactured as a set of prefabricated elements designed to be assembled in one location without further fabrication or modification that influences the system function.

The technical committee will be responsible for the national adoption of the ISO 30500 standard as an American National Standard (ANS) and National Standard of Canada (NSC). The committee will operate in accordance with IAPMO's accredited procedures for standards development:

- [IAPMO PP-1 \(Policies and Procedures for Consensus Development of American National Standards\)](#)
- [IAPMO PP-2 \(Policies and Procedures for Development of National Standards of Canada\)](#)

Founded in 1926, IAPMO seeks to be a worldwide leader in the plumbing and mechanical industry through protecting health and safety. IAPMO develops industry standards with a focus on plumbing products, solar heating systems and components, mechanical products (including heating, ventilation, cooling and refrigeration system products) and products used in the recreational vehicle and the manufactured housing industry.

For more than 30 years, IAPMO has developed American National Standards, initially as the Secretariat for the ANSI Z124 Technical Committee, and since 2005 as an American National Standards Institute (ANSI)-accredited standards development organization. On May 10, IAPMO received accreditation through the Standards Council of Canada (SCC) for development of National Standards of Canada, thus accepting responsibility for the development of CAN/IAPMO-designated standards.

The deadline to apply is Feb. 15, 2019. Those interested in participating may apply at the following URL and by selecting "ISO 30500 National Adoption Committee" on the application: http://forms.iapmo.org/iapmo/committee/app_ps_committee.aspx

Interested parties may contact Kyle Thompson at 909-230-5534 or by email at kyle.thompson@iapmo.org.

[<Return to top>](#)

New Alloy to Solve Lead Problem in Drinking Water

Material scientists at UNSW Sydney have come up with a lead-free brass alloy to replace traditional plumbing brass materials that have been shown to leach lead into drinking water.

The breakthrough alloy, which the group has named 'bright brass', has been designed to retain all the advantages that lead provides to brass for its manufacturing but without the toxicity.

Dr. Kevin Laws from the UNSW School of Materials Science and Engineering says he and his research group had developed a 'high-entropy' alloy system very similar to brass and bronze in 2014. And with the growing concern about lead from brass fittings dissolving in household drinking water, the researchers turned their attention to creating a lead-free brass alloy.

"Developing a viable alternative to standard plumbing fixtures and hardware became a high priority, particularly when it became known how widespread lead contamination in New South Wales drinking water is — with reports that 56 per cent of households in NSW are contaminated," Dr. Laws said.

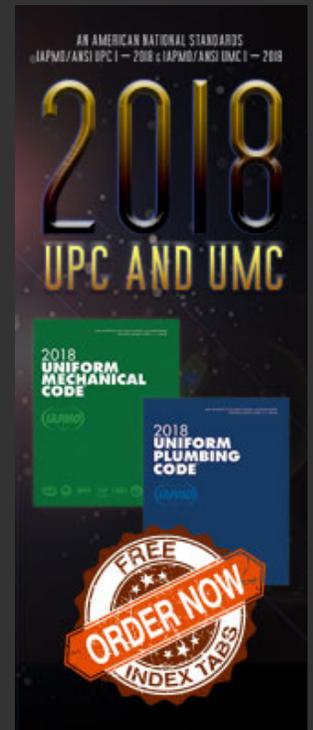
Read the full story: <https://newsroom.unsw.edu.au/news/science-tech/new-alloy-solve-lead-problem-drinking-water>

[<Return to top>](#)

IAPMO R&T Accredited by ANAB to Certify to AS 9100D

IAPMO R&T, North America's leading provider of third-party certification for plumbing, mechanical, and solar energy products, is pleased to announce it has been accredited by the ANSI-ASQ National Accreditation Board (ANAB) to issue

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.



certification to AS 9100D, *Quality Management Systems - Requirements for Aviation, Space, and Defense Organizations*.

The AS 9100 standard represents a comprehensive set of benchmarks toward a quality management system for the manufacture of safe and reliable products by the aerospace industry, and also addresses civil and military aviation requirements. It is utilized by companies that design, develop, and/or produce aviation, space and defense products, as well as organizations providing post-delivery support, including the provision of maintenance, spare parts, or materials, for their own products.

AS 9100 is endorsed by all major aerospace regulators, including the Federal Aviation Administration (FAA), U.S. Department of Defense (DoD), and National Aeronautics and Space Administration (NASA).

IAPMO R&T is one of only two certification bodies in California to be accredited by ANAB to provide this service to the host of aerospace industry companies using the AS 9100D standard.

"For more than a decade, IAPMO R&T has provided manufacturers and service providers with a fast, customer-friendly, transparent, and reliable option for certification to the ISO 9001 quality management systems standard," said Shirley Dewi, IAPMO Senior Vice President of Management Systems Registration Services. "We are excited to now offer AS 9100 certification to the aerospace industry and look forward to partnering with new clients toward their continuous improvement efforts and providing value-added audits."

Initially released as AS 9000 in 1997, the standard was developed in response to aerospace suppliers who noted that ISO 9001 didn't address requirements specific to their customers. AS 9100 Revision D was released in 2016, aligning the structure of the aviation, space, and defense requirements with ISO 9001:2015.

"IAPMO R&T's Management Registration Services expertise goes far beyond the plumbing and mechanical industry on which it was built," said Dave Viola, IAPMO Chief Operating Officer. "Our highly-qualified and attentive staff are ready and able to help our aerospace industry clients achieve this invaluable certification in an efficient, professional manner."

For more information or assistance, call (877) 469-4761 or direct your Web browser to <http://www.iapmort.org>.

[<Return to top>](#)



EPA Seeks Public Input on Draft Toxicity Assessments for PFAS Chemicals

EPA's draft assessments follow through on EPA's commitment to provide tools for states, tribes, and local communities to help protect public health

WASHINGTON — The U.S. Environmental Protection Agency (EPA) is seeking public input on draft toxicity assessments for GenX chemicals and perfluorobutane sulfonic acid (PFBS), members of a larger group of per- and polyfluoroalkyl substances (PFAS). PFAS are man-made chemicals used in a wide range of products because of their ability to repel water, grease, and oil. Today's draft assessments are part of EPA's efforts to increase the amount of research and information that is publicly available on chemicals in the PFAS family.



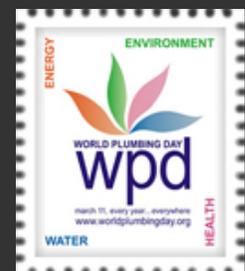
IWSH.org

**SUPPORT OUR
INTERNATIONAL,
WATER, SANITATION
AND HYGIENE
FOUNDATION!**

Donate a minimum of \$25 or more and get an exclusive IWSH T-Shirt.



**CLICK HERE TO GET
YOUR T-SHIRT TODAY**



"EPA is delivering on its commitment to provide our state and local partners the tools and information they need to address PFAS," said EPA Acting Administrator Andrew Wheeler. "The draft toxicity assessments are part of our forthcoming management plan, but we are releasing the draft assessments now to provide this information — and give the public the opportunity to provide input — as soon as possible. These draft toxicity assessments reflect the best available science, as well as our extensive community engagement, and are critical to our efforts to help communities impacted by PFAS."

Read more: <https://www.epa.gov/newsreleases/epa-seeks-public-input-draft-toxicity-assessments-pfas-chemicals>

[<Return to top>](#)

Dodge Momentum Index Increases in November

The Dodge Momentum Index moved 5.3% higher in November to 159.7 (2000=100) from the revised October reading of 151.7. The Momentum Index is a monthly measure of the first (or initial) report for nonresidential building projects in planning, which have been shown to lead construction spending for nonresidential buildings by a full year. November's gain was due to a 9.4% rebound for the commercial component of the Momentum Index. The recent setbacks in the overall Momentum Index were the result of declines in planning for commercial buildings, and while such planning did rebound in November, the level remains below what was reported in late spring and early summer. This is consistent with the view that the commercial building sector may now be nearing a peak. Meanwhile, the institutional component of the Momentum Index eased back 0.6% in November. Plans for institutional building projects have remained generally stable during 2018, reflecting the influence of public funding as it relates to such projects as schools and transportation terminals.

In November, 13 projects each with a value of \$100 million or more entered planning. The two leading commercial projects were a \$350 million hotel in Indianapolis IN and a \$300 million office building in Chicago IL. The two leading institutional projects were a \$320 million high school in Chino CA and a \$240 million research laboratory in Long Island City NY.

[<Return to top>](#)

Orange County Health Official Blames Disneyland Cooling Towers for Legionnaires' Disease Outbreak

Disneyland cooling towers were likely the cause for all 22 cases in a Legionnaires' disease outbreak last year, said Orange County Health Care Agency Dr. Matthew Zahn in his testimony before an appeals board judge at the California Occupational Safety and Health Administration.

The Los Angeles times report that according to Zahn, tests around the time of the outbreak showed high levels of Legionella bacteria in two of Disneyland's cooling towers, which likely spread contaminated droplets to people in the park.

In March, Disneyland was cited and fined \$33,000 by the Cal-OSHA for failing to properly clean cooling equipment.

Disneyland is appealing the state fines and say their cooling towers can't be scientifically determined as the source of the outbreak.

Read the full story: <https://www.latimes.com/local/california/la-me-ln-legionnaires-appeal-20181204-story.html>

[<Return to top>](#)

CA Building Standards Commission Approves Residential Solar Mandate

California has officially become the first state in the nation to require new residential homes built to be solar powered, reports *The Orange County Register*.

The new energy standards, which take effect in 2020, were officially approved by the California Building Standards Commission last week.

Under the new regulations, all new homes under three stories will be required to install solar panels. The PV system will be required to net out the annual kilowatt-hour energy usage of the dwelling.

Other energy efficient standards were also adopted, such as thicker attic and wall insulation, more efficient windows and doors and improved ventilation systems. It also includes provisions to encourage new home builders to add battery storage and heat-pump water heaters.

"These provisions really are historic and will be a beacon of light for the rest of the country," said Kent Sasaki, one of six commissioners voting on the new code. "(It's) the beginning of substantial improvement in how we produce energy and reduce the consumption of fossil fuels."

Read the full story: <https://www.ocregister.com/2018/12/05/california-officially-adopts-solar-requirement-for-new-homes-built-in-2020-or-later/>

[<Return to top>](#)

Flint's FAST Start Program Completes 18,313 Excavations, But Not Without Criticism

In a press conference held Tuesday morning, Flint, MI Mayor Karen Weaver announced that 18,313 service lines have been excavated one year ahead of the 2019 goal through her FAST Start Initiative. According to the Concerned Pastors Settlement Agreement, the City was obligated to have a minimum of 6,000 excavations conducted by January 1, 2018, a minimum of 12,000 excavations conducted by January 1, 2019, and a minimum of 18,000 excavations conducted by January 1, 2020.

"I am pleased to announce that as of Monday, December 3, 2018, the City has completed excavations at 18,313 homes to get the poison out of the resident's pipes in the City. Those excavations identified 7,707 lead or galvanized steel pipes that have been replaced with copper, removing harmful lead service lines at households in Flint", said Weaver. ([Read the cities' full news release](#))

But the method and plan put forth by the Mayor has started a feud with the state of Michigan, reports *Bridge Magazine* ([read the article here](#)), and the city may lose its funding because of the disagreements.

The issue is how the city is finding the lead pipes. Weaver is requiring contractors to dig trenches throughout the city to locate them. Michigan officials and environmentalists say that wastes time and money when other, more precise methods of detection are available.

The Natural Resources Defense Council (NRDC) also voiced their criticism, releasing a statement saying: "The City is operating under a settlement that requires it to target excavations at homes most likely to have hazardous lead and steel pipes, but more than 80% of the City's excavations this year were of homes with copper pipes. To date, the City has replaced only 7,700 lead and steel service lines, leaving [University of Michigan experts](#) to conclude that thousands of hazardous pipes likely remain in the ground."

"It's the number of lead pipes removed that matters, not the number of holes dug. The City needs to finish the job of finding and replacing the lead pipes in Flint, as our agreement demands that they do," says Pastor Allen C. Overton of Concerned Pastors for Social Action, a plaintiff in the case.

[<Return to top>](#)

IAPMO R&T Adds Shannon Ethridge as Toxicologist

IAPMO R&T, North America's leading provider of third-party certification for plumbing, mechanical, and solar energy products, is pleased to announce it has added Shannon Ethridge, diplomate of the American Board of Toxicology, as in-house toxicologist.

A senior-level toxicologist with a wide array of experience in both the laboratory and regulatory environments, Ethridge brings expertise specific to public health, drinking water quality (including U.S. EPA public drinking water standards), surface water quality, groundwater contamination, human health risk assessment, environmental policy and regulations, and air quality among many others.

"I'm very excited to be joining the R&T staff. Public health has always been very important to me, and I will work diligently to make scientifically-sound, risk assessment decisions to ensure the protection of public health," Ethridge said.

Ethridge has familiarity with laboratory methods and experience applying results from experiments to real world problems. As a regulatory toxicologist, she's provided toxicological support to many state agency program areas including water, air, waste, compliance and enforcement, field operations, and agency communications. During her career, Ethridge has worked with such public agencies and organizations as the U.S. Department of Health and Human Services, U.S. Environmental Protection Agency, U.S. Department of Homeland Security, U.S. Department of Energy, Texas Department of State Health Services, numerous local, state, and national government officials, members of the public, and activist groups.

"Shannon's background and experience will be an asset in supporting IAPMO R&T's enhancement of services in the drinking water quality arena and expanding business into areas where toxicological reviews are required," said Anish Desai, IAPMO R&T Vice President of Product Certification. "We are very pleased to welcome her to the R&T team."

IAPMO R&T certifies products to applicable drinking water quality standards such as NSF/ANSI 61, NSF/ANSI 60, NSF/ANSI 42, NSF/ANSI 44, NSF/ANSI 53, NSF/ANSI 55, NSF/ANSI 58 and NSF/ANSI 372. IAPMO marks of conformity are widely recognized and represent the highest degree of integrity in showing compliance with established codes and standards.

"As we seek to grow an already rapidly expanding drinking water quality systems certification program, it is clear we can better and more efficiently serve our clients by adding Shannon and the considerable expertise she brings to our team," said Dave Viola, COO of The IAPMO Group. "The addition of an in-house toxicologist, especially an expert with Shannon's qualifications, will profoundly impact this service positively."

For more information or assistance, call (909) 472-4100 or direct your Web browser to <http://www.iapmort.org>.

[<Return to top>](#)



YOUR PARTNERS IN EXPORTING

Grow your exports today:
GrowExports@IAPMO.ORG

Industry Calendar

AHR Expo 2019
 Jan. 14-16, 2019
 Atlanta, GA
<https://ahrexpo.com/>

KBIS 2019
 February 19-21, 2019
 Las Vegas, NV
www.kbis.com

2019 UPC and UMC Technical Meetings
 April 29-May 2, 2019
 Denver, CO
www.iapmo.org

IAPMO 90th Annual Education and Business Conference / 2019 ASSE International Annual Meeting
 September 22 - 26, 2019
 Reno, NV
www.iapmo.org

Upcoming Seminars

Earn your Continuing Education with IAPMO training.

ALASKA ONLINE SEMINARS		
ARIZONA SEMINARS		
January 7-11, 2019	Phoenix, AZ	ASSE 5110 Backflow Tester 40 Hour Class and Exam
January 11, 2019	Phoenix, AZ	ASSE 5110 Cross Connection Control Recertification - 8 hr Course and Exam
March 18-22, 2019	Phoenix, AZ	ASSE 5110 Backflow Tester 40 Hour Class and Exam
March 22, 2019	Phoenix, AZ	ASSE 5110 Cross Connection Control Recertification - 8 hr Course and Exam
CALIFORNIA SEMINARS		
February 4-8, 2019	Poway, CA	ASSE 5110 Backflow Tester 40 Hour Class and Exam
February 8, 2019	Poway, CA	Cross Connection Control Recertification - 8 hr Course and Exam
Feb. 25 - March 1, 2019	Ontario, CA	ASSE 5110 Backflow Tester 40 Hour Class and Exam
March 1, 2019	Ontario, CA	Cross Connection Control Recertification - 8 hr Course and Exam
COLORADO SEMINARS		
January 24-25, 2019	Longmont, CO	ASSE 5110 Cross Connection Control Recertification - 12 hr Course & Exam
Feb. 25-March 1, 2019	Arvada, CO	ASSE 5110 Backflow Tester 40 Hour Class and Exam
Feb. 28-March 1, 2019	Arvada, CO	ASSE 5110 Cross Connection Control Recertification - 12 hr Course & Exam
March 11-15, 2019	Montrose, CO	ASSE 5110 Backflow Tester 40 Hour Class and Exam
March 14-15, 2019	Montrose, CO	ASSE 5110 Cross Connection Control Recertification - 12 hr Course & Exam
IDAHO ONLINE SEMINARS		

IOWA ONLINE SEMINARS

LOUISIANA SEMINARS

January 28 - February 1, 2019	Baton Rouge, LA	ASSE 5110 Backflow Tester 40 Hour Class and Exam
February 1, 2019	Baton Rouge, LA	ASSE 5110 Cross Connection Control Recertification - 8 hr course / WSPS Conversion Class
March 25-29, 2019	Minden, LA	ASSE 5110 Backflow Tester 40 Hour Class and Exam
March 29, 2019	Minden, LA	ASSE 5110 Cross Connection Control Recertification - 8 hr course / WSPS Conversion Class

MASSACHUSETTS SEMINARS

Session 11 Training now available - [click here for the schedule!](#)

MINNESOTA SEMINARS

April 29, 2019 - May 3, 2019	Anoka, MN	ASSE 5110 Backflow Tester 40 Hour Class and Exam
May 3, 2019	Anoka, MN	ASSE 5110 Cross Connection Control Recertification - 8 hr Course and Exam

NEW JERSEY SEMINARS

April 8-12, 2019	Pennsauken, NJ	ASSE 5110 Backflow Tester 40 Hour Class and Exam
April 12, 2019	Pennsauken, NJ	ASSE 5110 Cross Connection Control Recertification - 8 hr course and Exam

PENNSYLVANIA SEMINARS

June 17-21, 2019	Scranton, PA	ASSE 5110 Backflow Tester 40 Hour Class and Exam
June 21, 2019	Scranton, PA	ASSE 5110 Cross Connection Control Recertification - 8 hr course and Exam

SOUTH DAKOTA SEMINARS

[Click Here to Find a Class](#)

WISCONSIN SEMINARS

June 3-7, 2019	Appleton, WI	ASSE 5110 Backflow Tester 40 Hour Class and Exam
June 7, 2019	Appleton, WI	ASSE 5110 Cross Connection Control Recertification - 8 hr Course and Exam

IAPMO is an approved provider for Continuing Education by USGBC, IACET, AIA and many local organizations and jurisdictions. Contact the IAPMO Training staff to register at 1-877-427-6601, or go to our website <http://www.iapmo.org/Pages/Seminar.aspx> to register online. New training dates are added periodically!

			EDUCATION PROVIDER
---	---	---	---------------------------



I-Connection Electronic Newsletter

You will continue to receive the I-Connection Newsletter each month until such time as you unsubscribe. To make sure the I-Connection Newsletter is not sent to your bulk or junk mail folders, add news@iapmo.org to your address book. We encourage you to forward the I-Connection Newsletter to your colleagues. Requests for new subscriptions, change of e-mail address, or to have your address removed from our list should be sent to news@iapmo.org. IAPMO does not knowingly participate in SPAM. We do not sell, rent or trade the names on our e-mail list; your e-mail address is only used to send messages from IAPMO. If you wish to be removed from this list, follow the link below and enter your e-mail address to be deleted.

Unsubscribe from the I-Connection Electronic Newsletter

