PROGRAM BOOK

September 22 – 26, 2019
Silver Legacy Resort Casino  |  Reno, Nevada
Snap. Post. WIN!

Experience the IAPMO & ASSE International co-located conference and meeting through social media! This scavenger hunt will be a way to meet other attendees and share your experiences.

Complete the tasks listed on our social media and the insert provided in your conference bag using the hashtags #IAPMOconf90 #ASSEam19 by 7:00pm, Wednesday, September 25, 2019.

Winners will be announced at the ASSE Closing Celebration and IAPMO Installation Dinner.

Advanced Piping Design Inc and Sikla Modular Steel Products.................................2
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SUPPORT OUR INTERNATIONAL, WATER, SANITATION AND HYGIENE FOUNDATION!

Donate a minimum of $25 or more and get an exclusive IWSH T-Shirt or $12 for IWSH Tote Bag.

See Registration Desk or order online at https://bit.ly/2G0YdsU
Ross Shafer has a peculiar background for a speaker on change.

He has authored nine business books, yet also won international stand-up comedy competitions. He’s earned six Emmy Awards as a network talk and game show host, yet credits his success to his ability to resell bicycles at age 13. He flipped cars at 15 and flipped homes at 18. After college at 21, he started buying and selling companies. When you understand that he’s always stoked a burning pursuit of excellence through change, it all makes sense.

Since his early teens, Shafer has been obsessed with understanding “Who succeeds? Who fails? And Why?” His confidence flourished when he discovered there were specific blueprints for success in every job and every industry. That understanding led to his noteworthy achievements in business, television broadcasting, book writing, professional speaking (CPAE) and even stand-up comedy. His wildly diverse career choices have allowed Shafer to communicate complex ideas with great fun — and an “everyman” quality.

Today, he coaches leaders and teams on how to cross-pollinate innovative ideas about emerging trends, shifting buying habits, and the motivation of workforces during mergers and acquisitions. His clients include 73 of the Fortune 100, as well as a broad array of associations.

What most people don’t know is that Shafer may have sparked the rise of the entertainment cooking channels when he wrote a funny bestselling book, “Cook Like a Stud (38 recipes men can prepare in the garage using their own tools).” Not bad for a guy who played college football (pre-concussion-era helmets) and who still aspires to get his hair right.
6:15 a.m.
**Golfers Depart for the Roscoe King Memorial Golf Tournament**
*Meet in the hotel lobby to board buses*

7 a.m.
**Arrive at Washoe Golf Course**
2601 Foley Way, Reno, Nevada 89509
*Breakfast and range open to all golfers*

8 a.m.
**Tee Off – Shot Gun Start**
*Scramble format*

1 p.m. – 6 p.m.
**Exposition Set up for Exhibitors**
*Grand Expo Foyer*

2 p.m. – 6:30 p.m.
**Registration Desk & Cyber Café Open**
*Grand Expo Mezzanine*

3 p.m. – 5 p.m.
**2018 UPC Drainage System Design Challenge**
*Reno Ballroom 5*
Presented by Steve Hart
0.2 CEUs | Concurrent Education
*This session is also available on Wednesday, September 25th at 9:30am.*

Think you know the UPC? How well do you know drainage systems? This interactive, hands-on session will put your knowledge to the test. Attendees will be divided into teams and each team will be given a scenario. Each team will then be tasked with assembling a drainage utilizing model plumbing system components that is both code-compliant and fulfills the challenge in their scenario. Once completed, teams will share their constructed systems with the rest of the class and discuss the prominent code issues related to their scenario. This is a great opportunity to be a part of a training experience that is highly engaging, entertaining, unlike any other training you have had before.

6 p.m. – 8 p.m.
**Western States Pipe Trades Council Cocktail Reception**
*Eldorado Ballroom*

7 a.m. – 5 p.m.
**Registration Desk & Cyber Café Open**
*Grand Expo Mezzanine*

7 a.m. – 8:30 a.m.
**Coffee and Breakfast**
*Grand Expo Foyer*

7 a.m. – 8:30 a.m.
**Conference Exposition**
*Grand Expo Foyer*

7:30 a.m. – 8:30 a.m.
**Chapter Photos**
*Platinum Room*

8:30 a.m.
**Photo Presentation of Previous Day’s Highlights**
*Grand Expo Hall*

9 a.m.
**Opening Session Begins**
*Grand Expo Hall*

**Call to Order**
Dave Straub, IAPMO President
John Parizek, ASSE President

**Invocation**
Bruce Pfeiffer

**Color Guard**
JROTC Reno High School
Lieutenant Colonel Nicole Sarafolean

**Welcome to Reno, Nevada**
Bill Laub, Conference Chair

**Pledge of Allegiance**
Tom Gugino, Conference Host

**Response**

**IWSH Presentation**

**Introduction of Keynote Speaker**

**Keynote Speaker – Ross Shafer**
11 a.m.
    Break

11:15 a.m.
    Appointment of Conference Committees

In Memoriam of IAPMO Members

Announcement of Essay Scholarship Competition Winners

Award Presentations
- American Flag Award
- Industry Person of the Year
- Government Person of the Year
- Joseph Kneidinger Green Professional of the Year
- George Kauffman Lifetime Achievement Award

12 p.m.
    President’s Honored Guests Luncheon
    Silver Baron D & E (By Invitation Only)

1:30 p.m. – 3 p.m.
    E.J. Zimmer Technical Seminar
    Backflow Prevention for Chemical Dispensers and Kitchen Equipment
    Reno Ballroom 6
    Presented by Sean Cleary and Ron Lord
    0.2 CEUs | Concurrent Education
    Perhaps one of the most misunderstood products in the plumbing industry is the chemical dispenser. What is the proper cross-connection needed to protect the water supply? Is the protection already part of the dispenser or should it be installed on the water supply upstream of the dispenser? Do dispensers require a dedicated water supply or can they be supplied by another fixture, such as a service sink faucet? Do they require a permit or a licensed plumber to be installed? The answers to these and other questions will be discussed and debated at this seminar. We will examine the coderequirements, innovated products related these installations, along with training programs and policies that exist in the industry for inspectors, consumers, and contractors working to ensure that this equipment is installed and used properly.

3:15 p.m. – 4:45 p.m.
    E.J. Zimmer Technical Seminar
    Ending Legionnaires’ Disease: An Achievable or Audacious Goal?
    Reno Ballroom 1
    Presented by Janet Stout, PhD
    0.2 CEUs | Concurrent Education
    Ending Legionnaires’ disease requires more than controlling Legionella in building water systems. Some agencies are now focusing on reducing and maintaining Legionella to zero. However, this is an unrealistic proposition due to the nature of the bacteria and the complexity of building water systems. If you find Legionella in your water system, don’t panic. Avoiding outbreaks requires a team approach, knowledge of Legionella, and a proactive plan so you know how to respond not react when you find Legionella in your water. Topics included are: Understanding Legionella in the Built Environment, Overview of Legionnaires’ disease, ASHRAE 188: Risk Management Approach and Its Limitations, Legislation: Necessary Complement to ASHRAE 188, and Strategies for Prevention.
15 a.m.
Certification Exams
Gold Room
Advanced registration required; onsite registration is unavailable

6 p.m. – 9 p.m.
Evening Outing – National Automobile Museum
Walk on own or meet in the hotel lobby to ride to National Automobile Museum
Attire: Conference T-Shirt
All registered attendees are invited (Badges required)
The National Automobile Museum (The Harrah Collection) has a “Wow!” factor you don’t often find in a museum. You’ll see more than 200 eye-popping cars with authentic street scenes and sounds. The facades bring displays to life; a Blacksmith Shop here, a movie theatre there, with artifacts from each era. The Museum has been ranked One of America’s Top 10 Automobile Museums.

In effort to further reduce IAPMO’s environmental footprint and better reflect the technology of our time, we will no longer be providing a CD-Rom containing the Education and Business Conference materials. Instead, the education seminar presentations, workshop drawings, and other information will be available for download.

7 a.m. – 5 p.m.
Registration Desk & Cyber Café Open
Grande Expo Mezzanine

7 a.m. – 9 a.m.
Coffee and Breakfast
Grande Expo Foyer

7 a.m. – 9 a.m.
Conference Exposition
Grande Expo Foyer

8:30 a.m.
Photo Presentation of Previous Day’s Highlights
Grande Expo Hall

9 a.m.
Call to Order
Dave Straub, IAPMO President
Grande Expo Hall

Credentials Committee Report

Association Technical Meeting Convention
6:30 a.m. – 5 p.m.  
Registration Desk & Cyber Café Open  
Grande Expo Mezzanine

6:30 a.m. – 8 a.m.  
Coffee and Breakfast  
Grande Expo Foyer

6:30 a.m. – 8 a.m.  
Conference Exposition  
Expo Dismantle 8 a.m. – 10 a.m.  
Grande Expo Foyer

7:30 a.m.  
Photo Presentation of Previous Day’s Highlights  
Grande Expo Hall

8 a.m.  
Call to Order  
Dave Straub, IAPMO President  
Grande Expo Hall

8 a.m. – 9 a.m.  
Liability and Risk Management of Legionella in All Piped Systems  
Grande Expo Hall  
Presented by Kurt Steenhoek and Richard Benkowski  
0.1 CEUs  
Does your firm participate in new construction, renovation, and maintenance of healthcare facilities? Does your firm work on cooling towers, ice machines, or humidifiers in hospitals, skilled nursing homes, or critical access hospitals? Install or renovate plumbing, medical gas piping, or fire protection systems? If you answered yes to any of these questions, you should not pass up this opportunity to help your customers and workers be in compliance with the CMS and CDC for all mechanical systems. Every healthcare facility in mandated to create a water management team compliant with ASHRAE 188-2018. Every water management team requires involvement by mechanical contractors. Are you ready to be a designated representative to help the water management team make informed decisions about cooling tower maintenance? Patient centered ice machine upkeep? All participants will learn legionella intervention and how to map, monitor, identify risk, offer remediation, and provide liability limiting documentation as required by ASHRAE 188-2018.

9 a.m.  
Nominations Committee Reports

9:30 a.m. – 11 a.m.  
Introduction to Leak Detection and Leak Detection Systems and Equipment for Plumbing Systems  
Reno Ballroom 1  
Presented by Randy Lorge  
0.2 CEUs  
Concurrent Education  
According to the EPA's website, “The average household’s leaks can account for nearly 10,000 gallons of water wasted every year and ten percent of homes have leaks that waste 90 gallons or more per day. Minor water leaks account for more than 1 TRILLION gallons of wasted water each year and is equal to the annual household water use in 11 million homes.” This presentation will cover the growing need for leak detection and explore the various methods, systems and devices that are available on the market to save this valuable resource.

9:30 a.m. – 11 a.m.  
2018 UPC Drainage System Design Challenge  
Reno Ballroom 5  
Presented by Steve Hart  
0.2 CEUs  
Concurrent Education  
Think you know the UPC? How well do you know drainage systems? This interactive, hands-on session will put your knowledge to the test. Attendees will be divided into teams and each team will be given a scenario. Each team will then be tasked with assembling a drainage utilizing model plumbing system components that is both code-compliant and fulfills the challenge in their scenario. Once completed, teams will share their constructed systems with the rest of the class and discuss the prominent code issues related to their scenario. This is a great opportunity to be a part of a training experience that is highly engaging, entertaining, unlike any other training you have had before.
11:15 a.m. – 12:30 p.m.  
2018 UMC Refrigeration Systems, 
Walk-In Coolers, Machinery Rooms, 
and Mechanical Chillers  
Reno Ballroom 1  
Presented by Tim Collings  
0.2 CEUs | Concurrent Education  
Chapter 11 of the UMC has undergone a lot of changes, most of which focus on the refrigeration machinery room. This session will focus first on the new format and requirements for machinery rooms and then on the code changes. The discussion will also focus on safety devices and relief device discharge locations as well as ventilation installation, testing and refrigeration classification.

11:15 a.m. – 12:30 p.m.  
2018 UPC Interceptor Sizing and 
Installation  
Reno Ballroom 6  
Presented by Bruce Pfeiffer  
0.2 CEUs | Concurrent Education  
This session provides an in-depth discussion of the history, evolution, and current installation and sizing of grease traps and interceptors. The discussion includes the history of grease traps and interceptors from their earliest installations in the late 1800s through current times. Also discussed the inclusion of grease traps and interceptors in the first Uniform Plumbing Code and the evolution of sizing and installation requirements from the 1946 UPC through 2018 edition. At the conclusion of the presentation, participants will have an opportunity to apply their skills by sizing waste systems that contain both hydromechanical and gravity grease interceptors.

1:30 p.m. – 5 p.m.  
UPC/UMC Workshops  
Reno Ballroom 4  
Presented by UPC/UMC Workshop Committees  
0.2 CEUs | Concurrent Education  
The UMC & UPC Workshop Committees present an opportunity for participants to test their code knowledge and learn from their peers. During the workshops, participants are placed into groups and are given drawings of installations and asked to determine if the systems and components are in compliance with the applicable 2015 Uniform Code. The findings are then presented to everyone in attendance to determine if they are correct and discuss any code issues discovered in the drawings.
1:30 p.m. – 3 p.m.
2018 UPC/UMC Taking a Critical Look at Real World Installation
Silver Baron A
Presented by Laura Ceja
0.2 CEUs
Understanding of code theory still requires a practical working knowledge of field application that can be applied while conducting inspections. In this interactive seminar, participants will practice mastery of code by recognizing violations in various plumbing and mechanical field installations. Real life scenarios are presented and discussed, while best practices will be explored in detail.

6 p.m.
Installation of Officers Reception
Grande Expo Foyer

6:30 p.m. – 9:30 p.m.
Installation of Officers Dinner
Grande Expo Hall

All registered companions are heartily welcome to take part in any of the events or sessions listed in this program. The Conference Planning and Special Projects Committee has also created a program full of interesting speakers and activities. Come and enjoy them with us!
IAPMO Companions’ are welcome to participate in the Roscoe King Memorial Golf Tournament and the Western States Pipe Trades Council Cocktail Reception. Please see page 14 for details.

**MONDAY, 9/23 GUEST SPEAKER**

**JULIUS BALLANCO**

Julius Ballanco is an engineer, researcher, plumber, author, lecturer, writer, former fireman, former Air Force Captain, and former paramedic. He has authored more than a dozen books. His latest book is *Travel Like a Pro, Tales from a Road Warrior, Tips and Tricks You Can Use*. He has traveled to all 50 states and more than 50 countries. With more than 1500 speaking engagements, Ballanco is known for being a dynamic, entertaining presenter. He has a Bachelor of Engineering degree from Stevens Institute of Technology. He is the past president of the American Society of Plumbing Engineers and past president of the American Society of Plumbing Engineers Research Foundation. Ballanco is a register professional engineer and licensed master plumber.
11 a.m.
Break

11:15 a.m.
Appointment of Conference Committees

In Memoriam of IAPMO Members

Announcement of Essay Scholarship Competition Winners

Award Presentations
- American Flag Award
- Industry Person of the Year
- Government Person of the Year
- Joseph Kneidinger Green Professional of the Year
- George Kauffman Lifetime Achievement Award

12:30 p.m. – 3 p.m.
Companions’ are invited to join us for a light lunch
Silver Baron 1 – 6
Guest Speaker: Julius Ballanco
Get ready to Scout the USA with a Road Warrior who has been traveling continuously for 42 years. Sit back and enjoy the ride as he entertains you with stories from every part of the United States. Experience the sights and sounds as Julius Ballanco crosses the country visiting historic sites, tourist spots, and off the beaten path locations. Along the way there will be stops at 16 National Parks. Enjoy the many festivities and celebrations. You are bound to feel patriotic and proud of our nation by the end of his presentation.

Everyone attending will receive a copy of Julius’ new book, Travel Like a Pro, Tales from a Road Warrior, Tips and Tricks You Can Use.

6 p.m. – 9 p.m.
Welcome Dinner
Theme: Roaring 20s – The Great Gatsby
Attendees are encouraged to dress up and play along
Reno Ballroom 2 – 5 | See page 14 for details
All registered IAPMO attendees are invited (Badges required)

Brief Announcement of Top Golf Winners

7 a.m. – 5 p.m.
Registration Desk & Cyber Café Open
Grande Expo Mezzanine

7 a.m. – 9 a.m.
Coffee and Breakfast
Grande Expo Foyer

7 a.m. – 9 a.m.
Conference Exposition
Grande Expo Foyer

8:30 a.m.
Photo Presentation of Previous Day’s Highlights
Grande Expo Hall

10:00 a.m. – 11:30 a.m.
Companions’ Program – Line Dancing
Silver Baron 1 – 6
Learn to line dance!!! We’ll go dancing together so you can practice with all the fellow danceaholics! Dances will vary sightly and our two instructors will teach you a pattern of steps that repeats throughout the song. We’ll dance about 3-6 different dances within the session to country and current hits. Line dancing is a whole lot of fun. So get in LINE!!!

1:30 p.m. – 3:30 p.m.
Companions’ Interactive Event – Learn and Win Casino Party
Silver Baron 1 – 6
Learn how to play blackjack and roulette and a chance to win great prizes. It’s a no risk opportunity to learn how to play and earn prizes at the same time. The dealers will explain the basics, have practice hands and answer any questions. After the practice session, everyone will be given chips to play for some great prizes!

6 p.m. – 9 p.m.
Evening Outing – National Automobile Museum
Walk on own or meet in the hotel lobby to ride to National Automobile Museum
Attire: Conference T-Shirt
All registered attendees are invited (Badges required)
See Page 15 for more details
6:30 a.m. – 5 p.m.
**Registration Desk & Cyber Café Open**
Grande Expo Mezzanine

6:30 a.m. – 8 a.m.
**Coffee and Breakfast**
Grande Expo Foyer

6:30 a.m. – 8 a.m.
**Conference Exposition**
Expo Dismantle 8 a.m. – 10 a.m.
Grande Expo Foyer

7:30 a.m.
**Photo Presentation of Previous Day’s Highlights**
Grande Expo Hall

9 a.m. – 4 p.m.
**Companions’ Outing – Scenic Lake Tahoe Tour with Lunch**
Meet in the hotel lobby to board buses
Badges Required
Companions will meet in the lobby and board buses for a tour along the rim of Lake Tahoe. With an elevation higher than 6,200 feet and an average depth of more than 900 feet, Lake Tahoe is the highest, deepest alpine lake in the world. The waters are so clear (99.7%) that you can see rocks more than 100 feet below the surface! The tour will be followed by lunch and shopping.

8:30 a.m. – 1:30 p.m.
**Registration Desk & Cyber Café Open**
Grande Expo Mezzanine

8:30 a.m.
**Coffee**
Grande Expo Foyer

8:30 a.m.
**Photo Presentation of Previous Day’s Highlights**
Grande Expo Hall

9 a.m.
**Call to Order**
Dave Straub, IAPMO President
Grande Expo Hall

**Treasurer’s Report**

**Conference Resolutions**

**Membership Report**

**President’s Report**
Dave Straub, IAPMO President

**Chief Executive Officer’s Report**
GP Russ Chaney, CEO

**Election of Officers**

**Unfinished Business**

**New Business**

6 p.m.
**Installation of Officers Reception**
Grande Expo Foyer

6:30 p.m. – 9:30 p.m.
**Installation of Officers Dinner**
Grande Expo Hall
ASSE attendees are welcome to attend the IAPMO education sessions.
6:15 a.m.  
**Golfers Depart for the Roscoe King Memorial Golf Tournament**  
*Meet in the hotel lobby to board buses*

7 a.m.  
**Arrive at Washoe Golf Course**  
2601 Foley Way, Reno, Nevada 89509  
*Breakfast and Range open to all golfers*

8 a.m.  
**Tee Off – Shot Gun Start**  
*Scramble format*

1 p.m. – 6 p.m.  
**Exposition Set Up for Exhibitors**  
*Grande Expo Foyer*

2 p.m. – 6:30 p.m.  
**Registration Desk & Cyber Café Open**  
*Grande Expo Mezzanine*

3 p.m. – 5 p.m.  
**2018 UPC Drainage System Design Challenge**  
*Reno Ballroom 5 / See p10 for details*  
Presented by Steve Hart  
0.2 CEUs  |  Concurrent Education

6 p.m. – 8 p.m.  
**Western States Pipe Trades Council Cocktail Reception**  
*Eldorado Ballroom*

7 a.m. – 5 p.m.  
**Registration Desk and Cyber Café Open**  
*Grande Expo Mezzanine*

7 a.m. – 8:30 a.m.  
**Coffee and Breakfast**  
*Grande Expo Foyer*

7 a.m. – 8:30 a.m.  
**Conference Exposition**  
*Grande Expo Foyer*

7:30 a.m. – 8:30 a.m.  
**Chapter Photos**  
*Platinum Room*

9 a.m.  
**Opening Session Begins**  
*Grande Expo Hall*

**Call to Order**  
Dave Straub, IAPMO President  
John Parizek, ASSE President

**Invocation**  
Bruce Pfeiffer

**Color Guard**  
JROTC Reno High School  
Lieutenant Colonel Nicole Sarafolean

**Welcome to Reno, Nevada**  
Bill Laub, Conference Chair

**Pledge of Allegiance**  
Tom Gugino, Conference Host

**Response**

**IWSH Presentation**

**Introduction of Keynote Speaker**

**Keynote Speaker – Ross Shafer**

11 a.m.  
**Break**

11:15 a.m. – 11:45 a.m.  
**Business Session 1**  
*Reno Ballroom 3*  
The first Business Session includes year-end reports from ASSE International’s officers and directors, chapters, and committees. This session also includes nominations for the upcoming year’s Board of Directors and voting on bylaw revisions.
Monday 9/23

IAPMO & ASSE International Co-located Conference and Meeting
SEPTEMBER 22 – 26, 2019 | RENO, NEVADA

12 p.m. – 1 p.m.
President’s Luncheon
Reno Ballroom 5
Plated luncheon hosted by ASSE International President John Parizek. All ASSE registrants welcome.

1:30 p.m. – 3 p.m.
E.J. Zimmer Technical Seminar
Inspecting Geothermal Heating and Cooling Systems
Reno Ballroom 1 | See p12 for details

1:30 p.m. – 3 p.m.
E.J. Zimmer Technical Seminar
Backflow Prevention for Chemical Dispensers and Kitchen Equipment
Reno Ballroom 6 | See p13 for details

3:15 p.m. – 4:45 p.m.
E.J. Zimmer Technical Seminar
Ending Legionnaires’ Disease: An Achievable or Audacious Goal?
Reno Ballroom 1 | See p13 for details

5 p.m.
Evening Outing – National Automobile Museum
Walk on own or meet in the hotel lobby to ride to National Automobile Museum
Attire: Conference t-shirt
All registered attendees are invited (Badges required) See p15 for details

Tuesday 9/24

7 a.m. – 5 p.m.
Registration Desk & Cyber Café Open
Grande Expo Mezzanine

7 a.m. – 9 a.m.
Coffee and Breakfast
Grande Expo Foyer

7 a.m. – 9 a.m.
Conference Exposition
Grande Expo Foyer

8 a.m. – 11:00 a.m.
Cross-Connection Control Technical Committee
Silver Baron E
The CCCTC is advisory to the ASSE International backflow certification program, based on the ASSE/IAPMO/ANSI Series 5000. This meeting will cover topics such as program guidelines, test procedures, exam test questions, and school requirements.

7:30 a.m. – 9 a.m. and 11 a.m. – 12:30 p.m.
Product Standards Committee
Silver Baron A
The PSC is involved in the development and issuance of ASSE International’s product standards. Meetings typically include status reports of draft standards, proposed standards for development, and any issues affecting active standards.

11 a.m. – 12 p.m.
ICRA Technical Committee
Silver Baron D
The ICRA Technical Committee is advisory to the Infection Control and Water Quality certification programs. This meeting will cover topics such as program guidelines, exam questions and school requirements.

1 p.m. – 2 p.m.
Fire Protection Technical Committee
Silver Baron D
The FPTC (15000) is an advisory committee that provides technical guidance to the ASSE International Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems Certification, based on the ASSE/IAPMO/ANSI Series 15000. This meeting will cover topics such as program guidelines, practical exams, test questions, and school requirements.

1:45 p.m. – 3:30 p.m.
Seal Control Board
Silver Baron A
The SCB is the committee that advises on activities relating to the issuing of the ASSE Seal. Meetings cover topics surrounding the Product Listing Program and product performance testing.

3:30 p.m. – 5 p.m.
Professional Qualifications Standards Committee
Silver Baron E
The PQSC is the committee that is involved in the development and issuance of ASSE International’s professional qualifications standards. Meetings typically include status reports of draft PQ standards, proposed standards for development, and any issues affecting active standards.

6 p.m. – 9 p.m.
Evening Outing – National Automobile Museum
Walk on own or meet in the hotel lobby to ride to National Automobile Museum
Attire: Conference t-shirt
All registered attendees are invited (Badges required) See p15 for details
6:30 a.m. – 5 p.m.
Registration Desk & Cyber Café Open
Grande Expo Mezzanine

6:30 a.m. – 8 a.m.
Coffee and Breakfast
Grande Expo Foyer

6:30 a.m. – 8 a.m.
Conference Exposition
Expo Dismantle 8 a.m. – 10 a.m.
Grande Expo Foyer

8 a.m. – 9 a.m.
Manufactures’ Forum
Reno Ballroom 2
At the Manufacturers’ Forum, participants will have the opportunity to give their constructive input to ASSE’s Product Listing Program, discuss issues affecting their industries, and exchange ideas for future progress with staff involved in the listing program, including our Staff Engineering Supervisor, Technical Project Manager, and Senior Vice President of Industry Relations and Business Development. This meeting is exclusively open to manufacturer employees involved in product certification.

8 a.m. – 9 a.m.
IAPMO Education Session
Liability and Risk Management of Legionella in All Piped Systems
Grande Expo Hall  | See p16 for details

9:15 a.m. – 9:45 a.m.
Government Relations Presentation
Reno Ballroom 3
ASSE’s Senior Vice President of Government Relations will present public policy initiatives and updates on policy efforts and the direction of the industry.

9:30 a.m. – 11 a.m.
IAPMO Education Session
Introduction to Leak Detection and Leak Detection Systems and Equipment for Plumbing Systems
Reno Ballroom 1  | See p17 for details

9:30 a.m. – 11 a.m.
IAPMO Education Session
2018 UPC Drainage System Design Challenge
Reno Ballroom 5  | See p17 for details

10 a.m. – 11 a.m.
Al Cohen Chapter President’s Liaison Conference
Reno Ballroom 3
The Presidents’ Liaison Conference is a forum where ASSE International chapter presidents and representatives can speak their minds about where the organization is succeeding, how it can be improved and collectively generate ideas about how individual chapters can grow and flourish.

11 a.m. – 12 p.m.
School Forum
Reno Ballroom 3
Through discussion and idea sharing, ASSE accredited schools will help each other grow to their fullest potential while providing the highest quality of training possible. ASSE will present opportunities for additional certification programs and attendees will have the opportunity to share their ideas and concerns to help ASSE provide the best programs possible.

11:15 a.m. – 12:30 p.m.
IAPMO Education Session
2018 UMC Refrigeration Systems, Walk-In Coolers, Machinery Rooms, and Mechanical Chillers
Reno Ballroom 1  | See p18 for details

11:15 a.m. – 12:30 p.m.
IAPMO Education Session
2018 UPC Interceptor Sizing and Installation
Reno Ballroom 6  | See p18 for details

1 p.m. – 2:15 p.m.
Service Plumber/Residential Mechanical (ASSE 13000) Technical Committee
Reno Ballroom 2
The SP/RM Technical Committee advises the ASSE International Service Plumber Certification, based on the ASSE/IAPMO/ANSI Series 13000. These meetings will cover topics such as program guidelines, practical exam, test questions, and school requirements.

1:30 p.m. – 5 p.m.
IAPMO Education Session
UPC/UMC Workshops
Reno Ballroom 4
See p18 for details
2:30 p.m. – 3:30 p.m.
**ASSE Board of Directors Meeting**
*Reno Ballroom 2*
The open ASSE International Board of Directors Meeting is on Wednesday at 2:30 p.m. This meeting typically includes reports from technical committee chairmen regarding their meetings held earlier in the week. The meeting also includes any organizational business that needs to be discussed by the Board of Directors.

3:30 p.m. – 5 p.m.
**Business Session 2 & Awards Ceremony**
*Reno Ballroom 3*
The second Business Session includes an election of the ASSE International Officers and Directors, and the newly elected International President’s address. ASSE International awards will also be presented.

6 p.m. – 9 p.m.
**Closing Celebration**
*Eldorado Ballroom*
The meeting’s final event will be a closing celebration where all can relax, enjoy each other’s company, and reflect on the week’s accomplishments. Food and beverages will be served, and a DJ will provide music for dancing.

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8:30 a.m. – 1:30 p.m.
**Registration Desk & Cyber Café Open**
*Reno Ballroom Registration Desk*

8:30 a.m.
**Coffee**
*Reno Ballroom Foyer*

1 p.m. – 3 p.m.
**ASSE 1003 Working Group**
*Water Pressure Reducing Valves for Domestic Water Distribution Systems*
*Silver Baron E*

1:30 p.m. – 3 p.m.
**2018 UPC/UMC Taking a Critical Look at Real World Installation**
*Silver Baron A 1 See p20 for details*

3 p.m. – 5 p.m.
**ASSE 1017 Working Group**
*Temperature Actuated Mixing Valves for Hot Water Distribution Systems*
*Silver Baron E*
ASSE companions are welcome to participate in the Roscoe King Memorial Golf Tournament and the Western States Pipe Trades Council Cocktail Reception. Please see page 10 for details.

7 a.m. – 5 p.m.  
Registration Desk & Cyber Café Open  
Reno Ballroom Registration Desk

7 a.m. – 8:30 a.m.  
Coffee and Breakfast  
Grande Expo Foyer

8 a.m. – 8:30 a.m.  
ASSE Companions Coffee Social  
Bronze Room

9 a.m.  
Opening Session Begins  
Grande Expo Hall

Call to Order  
Dave Straub, IAPMO President  
John Parizek, ASSE President

Invocation  
Bruce Pfeiffer

Color Guard  
JROTC Reno High School  
Lieutenant Colonel Nicole Sarafolean

Welcome to Reno, Nevada  
Bill Laub, Conference Chair

Pledge of Allegiance  
Tom Gugino, Conference Host

Response

IWSH Presentation

Introduction of Keynote Speaker

Keynote Speaker – Ross Shafer

7 a.m. – 5 p.m.  
Registration Desk & Cyber Café Open  
Reno Ballroom Registration Desk

7 a.m. – 9 a.m.  
Coffee and Breakfast  
Grande Expo Foyer

6 p.m. – 9 p.m.  
Evening Outing – National Automobile Museum  
Walk on own or meet in the hotel lobby to ride to National Automobile Museum  
Attire: Conference t-shirt  
All registered attendees are invited (Badges required)  
See p15 for details

6:30 a.m. – 5 p.m.  
Registration Desk & Cyber Café Open  
Reno Ballroom Registration Desk

6:30 a.m. – 8 a.m.  
Coffee and Breakfast  
Grande Expo Foyer

9 a.m. – 4 p.m.  
Companions’ Outing – Scenic Lake Tahoe Tour with Lunch  
Meet in the hotel lobby to board buses (Badges required)  
See page 26 for more details

6 p.m. – 9 p.m.  
ASSE Closing Celebration  
Eldorado Convention Center  
The meeting’s final event will be a closing celebration where all can relax, enjoy each other’s company, and reflect on the week’s accomplishments. Food and beverages will be served, and a DJ will provide music for dancing.
Richard Benkowski started his United Association career in Monaca, PA in 1976. He contributed locally for 35 years as an instructor teaching OSHA, Medical Gas, HVAC Systems and Controls, EPRI Advanced Rigging, Plumbing Codes & Installation, and Infection Control Risk Assessment (ICRA).

Richard earned a Bachelor’s Degree in Labor Education and currently works for the UA Department of Education and Training as a Training Specialist. His primary responsibilities include HVACR curriculum development and Sustainable Technology updates. He supports ITF efforts to create and develop curriculum using the latest technological advances such as 360°, Augmented Reality, and Virtual Reality. Also advance research for energy efficiency and water conservation initiatives that increase the awareness and skillsets of UA members who construct, maintain, and service high performance buildings.

Professional memberships include ASHRAE and USGBC holding a current LEED AP credential. In 2018, he became a member of the IAPMO Uniform Mechanical Code Technical Committee.

Laura Ceja is the UA Education and Training Department’s National Recruitment and Outreach Coordinator. She began her career as a plumber/pipfitter with UA Local 761 Burbank over 22 years ago. Laura has taught various aspects of the plumbing trade as Training Officer for the City of Los Angeles, Apprenticeship Instructor for Local 761, UCLA Extension and the UA’s Instructor Training program. She currently serves on IAPMO’s Training and Education Committee and is a former IAPMO board member.

Tim Collings recently retired as the Senior Inspector for Salt Lake City Corporation. Prior to retiring, he had been inspecting plumbing, mechanical and fire protection systems for Salt Lake City Corporation since August 1981. Tim taught in the plumbing apprenticeship program in Salt Lake City for 18 years. Tim is a licensed Master Plumber in Utah and was a licensed journeyman plumber in Wyoming. Tim was elected to the board of directors of IAPMO and served in that capacity for seven years. In addition to his work on the board, Tim has also served on many IAPMO committees. His instruction is supported by a solid background that combines professional experience with a wide variety of committee service.

Sean Cleary is a licensed master plumber from Scranton, Pennsylvania. Over the course of his 40-year career he has worked in all phases of the cross-connection, plumbing, and mechanical industries. He is a graduate of the United Association Instructor Training Program. Sean is a Past President of ASSE International and served as Chairman of the ASSE Cross-Connection Control Technical Committee for more than 10 years. Sean is employed by the International Association of Plumbing and Mechanical Officials (IAPMO) as the Vice President of Operations for the IAPMO Backflow Institute. The institute is considered the industry leader in cross-connection control training within the United States and on an international basis. Cleary is the Technical Editor for Backflow Prevention and Plumbing Standards magazine, co-author of the IAPMO Backflow Reference Manual, and has written articles for a number of plumbing and mechanical publications. Cleary also has given presentations on water and cross-connection issues for IAPMO, ASSE, ASPE, NEHA, IA, and a number of state plumbing inspector organizations.

Steve Hart, Certified Building Official, is the senior plumbing plans examiner with Public Health-Seattle & King County (PHSKC). A licensed journeyman plumber for thirty years, he also holds a degree in business management.

Steve is an enrolled tribal member of The Blackfeet Nation, and is one of few Native American certified inspector/ plans examiners in the United States, and the only Native American Certified Building Official in Washington State. He strives to share his knowledge with other Native Americans and individuals of color, who face barriers in gaining access to a profession in the trades.

Steve is a member of Local 32 Plumbers & Pipefitters, and currently serves as Chair of the Northwest Washington Chapter of International Association of Plumbing and Mechanical Officials (IAPMO). He is an instructor, specializing in plumbing codes, designing and developing Plumbing Systems Illustrated, a program providing instruction in complex plumbing code concepts that engages all learning styles.
Ron Lord is a Regional Manager in several areas of the country for the International Association of Plumbing and Mechanical Officials (IAPMO) since 2002. While working the Rocky Mountain region, he was a member of the Colorado Backflow Prevention Education Committee for the state of Colorado. He currently covers the Mid-Atlantic area down to Florida. In addition, Lord is Director of the Dispensing Equipment Alliance (DEA), which is a non-profit membership organization representing manufacturers and suppliers of dispensing equipment. The DEA is a part of The IAPMO Group since 2015 and works to educate all aspects of the industry on the standards that certify chemical dispensing equipment. Lord is a member of ASSE and ASPE, and he holds a Bachelor of Science degree from the University of Houston – Clear Lake.

Randy Lorge is the Director of Workforce Training and Development for the International Association of Plumbing and Mechanical Officials (IAPMO). He has taught plumbing apprentices, journeyman, and inspectors plumbing code for over 20 years and has been a member of the IAPMO Training and Education Committee for 3 years. In addition, Lorge has been a lead member of the International Water, Sanitation, and Hygiene (IWSH) Foundation, which is IAPMO’s non-profit 501 (c)3. Charity for the past 5 years. He was awarded the IAPMO Industry Person of the Year in 2018. Lorge is also a master plumber in the State of Wisconsin.

Bruce Pfeiffer was born and raised in Topeka, Kan., where he completed his apprenticeship and worked as a journeyman plumber from 1979 to 1986. After passing the master plumbing exam, he accepted the position of plumbing supervisor at the Menninger Foundation, a nationally known psychiatric school/hospital, from 1984 to 1989. He then went on to become a plumbing inspector for the city of Topeka, rising to senior plumbing inspector in 1997. Pfeiffer is a long-time member of Local 441 and an instructor with the UA. He also gained instructing experience with his local PHCC apprenticeship school. Since joining IAPMO in 1989, Pfeiffer has been very active on a local level, having served multiple terms as vice chairman and chairman of the Kansas-Missouri Chapter, and is currently the chapter treasurer. Additionally, he has been on numerous ad-hoc committees, including the Medical Gas Committee, the Standards Research Committee, and the Products Research Committee. Pfeiffer is currently a member of the UPC Answers & Analysis Committee and the UPC Workshop Committee.

Cary Smith is a founding partner and President/CEO of Sound Geothermal Corporation (SGT). SGT an innovative design group focusing on various energy saving building technologies utilizing ground source heat pump (GeoExchange®) systems or other renewable energy systems as a core technology. Mr. Smith’s professional affiliations include the Geothermal Heat Pump Consortium (GEO), International Ground Source Heat Pump Association (IGSHPA), Association of Energy Engineers (AEE), American Society of Heating Refrigeration and Air-Conditioning Engineers (ASHRAE). He has held a number of leadership roles in most of these organizations and is the past Chairman of ASHRAE’s national Technical Committee 6.8, Geothermal Utilization and Heat Recovery. In addition, he is Past-Chair of ASHRAE MTG – Avoided Source Energy Consumption (ASEC). He also serves on the IAPMO UMC and USSHC Technical Committees and the IGSHPA Board of Directors, Training, Advocacy, and Standards committees. He holds multiple professional certifications including; Certified GeoExchange Designer, Certified Energy Manager, Certified GeoExchange Inspector, and Certified Energy Auditor (CGD, CGI, CEM, CEA). He is a co-author of the CGI course.
Kurt Steenhoek began his Plumbing career in 1983 and became a Colorado licensed journeyman in 1988. From 1994 - 2002 Kurt was appointed UA Local 3 Business agent - Financial Secretary-Treasurer. Kurt was elected Business Manager in 2002 until his election as UA International Representative in 2016. During his tenure at Local 3, Mr. Steenhoek held several other important state and international boards advancing his expertise in legislative and labor management. He is a member of IAPMO, ASSE committee chairperson. Past UA ITF Board of Directors, Past President of the Western States Pipe Trades.

Dr. Janet E. Stout is president and director of Special Pathogens Laboratory, and research associate professor at the University of Pittsburgh Swanson School of Engineering in the Department of Civil and Environmental Engineering. An infectious disease microbiologist, Dr. Stout is recognized worldwide for seminal discoveries and pioneering research in Legionella. Her expertise includes prevention and control strategies for Legionnaires’ disease in building water systems. Dr. Stout’s more than 30 years of research is published in peer-reviewed medical and scientific journals. She has also authored textbook chapters on Legionella and Legionnaires’ disease, including the Legionella chapter in the APIC Text. An advocate for prevention, Dr. Stout assisted in developing the first Legionella prevention guideline (1993) in the United States, which continues to serve as a model for national and global health agencies and organizations. Additionally, she serves on the ASHRAE Legionella standard committee for Legionella Guideline 12 and the SPC 188 committee for ANSI/ASHRAE Standard 188-2015 Legionellosis: Risk Management for Building Water Systems, the first U. S. standard passed in June 2015. Recently, Dr. Stout was elected to the board of the Cooling Technology Institute.
National Inspection Testing and Certification Corporation (NITC) is a third-party provider of certification services to the Piping Industry. NITC tests and certifies personnel in the Medical Gas, Plumbing, Pipefitting, HVACR, Fire Protection and Safety Systems and related industries. NITC maintains a Quality Management System registered to the ISO 9001:2008 Standard and offers personnel certifications that include but are not limited to Journey Level and Master Level, and assorted City, County and State Government requirements. NITC also specializes in Test Development and Test Administration.

Minnesota Pipe Trades Association represents 9,000 plumbers, pipefitters, sprinklerfitters, gasfitters, and HVAC and service technicians throughout the state of Minnesota. The association has members working in all areas of the plumbing, pipefitting, mechanical and fire protection industry, including residential, commercial, and institutional facilities. The association’s work also involves the building and maintenance of coal, natural gas and nuclear power plants, oil refineries, renewable fuel facilities, research and bioscience projects, hospitals, sports stadiums, water treatment facilities and more. The members of the Minnesota Pipe Trades Association work hard everyday to ensure that safe, high quality projects are delivered on time and on budget.

Apollo Valves manufactured by Conbraco Industries, has been servicing the Commercial and Industrial market valve needs for over 85 years. Apollo valves are designed, engineered, cast, machined, assembled and tested in the USA. Although best known for their Apollo ball valves, Conbraco also manufactures push and press products, pressure reducing valves, strainers, check valves, backflow preventers, thermostatic mixing valves, pressure relief valves, water gauges, and much more.

Reliance Worldwide Corporation is a market leading manufacturer of water control systems and plumbing solutions. Established in 1949, the RWC portfolio includes industry-leading brands: SharkBite® Push-To-Connect plumbing solutions; HOLDRITE® engineered plumbing and mechanical solutions; Cash Acme® control valves; John Guest fittings and fluid dispense products and Streamlabs™ smart water technologies.

UA Road Sprinkler Fitters Local 669 is dedicated to the education and training of its members. UA Road Sprinkler Fitters Local 669 strives to stay abreast of the continual evolution of fire sprinkler systems, and will furnish their contractors with journeymen and apprentices that have the aptitude, knowledge and skill to install a quality fire protection system.
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A world leader in HVACR technology, Daikin is devoted to overcoming the evolving challenges of air while creating better, more sustainable outcomes for customers and communities. Headquartered in New York City with offices in Washington, DC and Silicon Valley, Daikin US Corporation supports the market research, government affairs, and startup outreach efforts of the Daikin business units across the United States. Daikin US Corporation is a member of Daikin Industries Ltd., a diversified international manufacturing company based in Osaka, Japan with $6 billion in revenue in the United States.

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Plumbers Local 68 was first chartered in May 1892, and continue to serve the areas of Houston, Galveston, Beaumont, Bryan, College Station, Victoria, Corpus Christi and the Rio Grande Valley, as well as the 62 surrounding counties.

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SMART, the International Association of Sheet Metal, Air, Rail and Transportation Workers, is one of North America’s most dynamic and diverse unions with 216,000 members. SMART’s members ensure the quality of the air we breathe, promote energy efficiency, produce and provide the vital services that move products to market and passengers to their destinations.
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**Pennsylvania Water Specialties Corporation (PAWSC)** is an industry leader in providing public and private water systems niche cross-connection control (CCC) administration programs, ASSE training, and the supporting services necessary for the purpose of managing CCC programs mandated under Federal and State Safe Drinking Water Act laws.

**Gold Level Sponsor**

**Southern California Pipe Trades District Council 16** is a group of dedicated hard-working men and women striving toward the same goals of job security, health and welfare benefits, a living wage, a safe working environment, a comfortable pension and dignity for all members because the voices of many are louder than the voices of an individual.

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**Our 300+ member companies produce more than 90 percent of the residential and commercial air conditioning, heating, water heating, and commercial refrigeration equipment made and sold in North America and across the globe. Through our certification program, standards, advocacy, and other activities, we strive to help save energy, improve productivity, and ensure a better environment.**

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**SoCal Plumbers 911** is the largest referral service in Southern California and we’re raising the standard in residential and light commercial plumbing and HVACR services. With the industry’s highest level of training and education to enhance our member’s skill level, SoCal Plumbers 911 features the best-trained, highest educated, and most experienced service technicians.

Precision Plumbing Products, located in Portland, Oregon, continues a long tradition of growth through product expansion, customer loyalty and a long-standing partnership with our manufacturing representatives. It has been the company policy through three and one half decades of providing plumbing specialty products to control the manufacturing and assembly processes at its manufacturing facilities in the United States, and they do not export jobs, therefore insuring the customer will receive the best quality possible. Simple, trouble-free designs at competitive prices, a simple and successful strategy that continues to create long-term growth.

**GOLD LEVEL SPONSORS**

**Plumbers & Pipefitters Local Union 100** is dedicated to the fundamental labor principles of providing gainful employment and safe working conditions for its working members. Furthermore, Local 100 endeavors to secure fair compensation and reasonable benefits for all of our working and retired members.

The Minnesota Mechanical Contractors Association is a member-driven association with a full-time staff designed to lead and direct our industry. MMCA and its predecessor organization have been in existence for over 100 years. The Minnesota Mechanical Contractors Association represents contractors involved in all facets of piping throughout Minnesota. It is a non-profit corporation governed by and for contractors. MMCA acts as management representative in negotiations with Minneapolis Pipefitters #539, St. Paul Pipefitters #455, St. Paul Pipefitters #455, St. Paul Plumbers #34, Minneapolis Plumbers #15 and Rochester Plumbers and Pipefitters #6, and their respective locals in Mankato and St. Cloud.

**GOLD LEVEL SPONSORS**

The California State Pipe Trades Council represents thousands of plumbers and pipe fitters in local unions across the state. We’re proud to contribute to California’s vibrant economy with highly skilled workers capable of meeting the challenges and demands of our growing state. We are part of the United Association which represents the plumbing and pipe fitting industry with over 300,000 members across the United States and Canada. We help build California’s homes, schools and offices to the highest standards of safety and efficiency.
The Holby Tempering Valve is used primarily as a master mixing valve, and complies with ASSE International (ASSE) Standard #1017-2009 (Temperature Actuated Mixing Valves for Hot Water Distribution Systems) and Canadian Standards Association (CSA) B125.3. Engineered for long life with ease of maintenance, the valve has only three internal parts to service. Because of its simplicity and durability, the Holby Tempering Valve has been the preferred mixing valve among consulting engineers, owners and plumbers for generations.

United Association of Plumbers and Gasfitters Local Union #15 was chartered on February 7, 1890 and currently represents approximately 1,500 members working in all aspects of the Plumbing and Gas Distribution/Pipeline industry, along with Metal Trades members and Engineers working for the City of Minneapolis Local 15 Journeyman and apprentices enjoy the benefits of being among the best trained in the Industry, experienced in residential & commercial construction and service, research and development, gas distribution and pipeline work.

Today, Plumbers Union Local 75, covering Milwaukee, Janesville, and Madison, Wisconsin, enjoys a reputation of credibility and strength in the building trades. But such a reputation didn’t happen overnight. It was established over a century through the struggles, hard work and foresight of its members. Ever since its beginnings, Plumbers Union Local 75 has continued to fight for the rights of the working person and the betterment of the trade. As a result of its tradition of compassion and dedication, Local 75 has grown to a current membership of approximately 2000. The organization will continue to draw on this rich legacy as it continues to protect the rights of its members and work toward a bright and prosperous future for the plumbing industry.

Local Union 78 proudly represents the hardest working, highly skilled men and women in the plumbing industry. Local 78’s premier training programs offer a five-year apprenticeship program, and extensive journeymen training.

Local 78 helps signatory contractors grow their market share by identifying new opportunities, and by providing the most skilled and highly trained workforce in the industry. Local 78 is committed to teaming with the city and state to provide a great working environment to grow the economy and make Los Angeles strong and safe.

POPS Technologies LLC has been Developing and manufacturing dilution – dispensing systems and accessories for the Jan/San industry for nearly 20 years. We provides robust and reliable equipment based on the end user’s experience, that is, easy to use and creates a positive chemistry delivery experience. At the same time we are investing in the future of dilution and dispensing equipment by developing innovative systems using new technologies.

United Association 4th District Apprentice Contest
Our contest consists of the best apprentices in the following Trades: Pipefitting, Sprinklerfiting, Plumbing, HVAC Service, and Welding. The United Association 4th District is made up of the following states: Illinois, Iowa, Kansas, Minnesota, Missouri, Montana, Nebraska, North Dakota, South Dakota, Wisconsin, and Wyoming.

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