World Aquatic Health Conference™
2019 Welcome Packet

October 16–18, 2019 • Williamsburg, VA

Register now at nsfp.org/wahc/register

Contact conference@phta.org
Historic Colonial Williamsburg is located just steps from the Williamsburg Lodge with over 20 guided and self-guided tours that offer unique insight into the storied homes and colorful residents of Revolution-era Williamsburg. Discounted hotel rates and more on p.3.

What to Look Forward to in 2019

| Improving Water & Air Quality                   |
| New Industry Technology                         |
| Model Aquatic Health Code                       |
| Increasing Fun & Reducing Risk                  |
| Recreational Water Illness Prevention           |
| Professional Development                        |
| Facility Management & Design                    |
| Disinfection & Sanitation                       |
| Regulations & Standards                         |

Who Will You Meet?

People who attend the WAHC work in the following fields:

- **40%** Aquatic Facilities
- **20%** Health Officials
- **13%** Service Companies
- **12%** Manufacturers
- **9%** Academia
- **6%** Builders/Designers

Colonial Williamsburg Location

Registration Costs

**Early Registration: $495**
(June 1–July 30)

**Regular Registration: $595**
(August 1–October 18)
Hotel and Travel Information

Reservations
The Williamsburg Lodge will provide the best rate and room online or by phone at 800-261-9530. The reservation office is open Monday–Friday, 8:30–5:00 ET, and be sure to mention the National Swimming Pool Foundation when making your reservation. **Deadline to book for the WAHC block is September 1.**

https://book.passkey.com/go/nsfns2

Get the WAHC Discounted Hotel Rates
The WAHC rate of $159 per night (+ tax) for a standard queen room is available for the dates Sunday, October 13 through Sunday, October 20, 2019.

The Williamsburg Lodge
310 South England Street
Williamsburg, VA 23185
**General (757) 220-7976**
**Reservations (800) 261-9530**

Airport Options

Newport News International Airport (PHF)
18.6 miles (20 minutes) to Williamsburg Lodge

Richmond International Airport (RIC)
46 miles (50 minutes) to Williamsburg Lodge

Norfolk International Airport (ORF)
44 miles (51 minutes) to Williamsburg Lodge

Things to Do

Visit colonialwilliamsburg.com for more information.

Attractions

**Governor’s Palace**
300 Palace Green Street

**Abby Aldrich Rockefeller Folk Art Museum**
326 Francis Street West

**Bassett Hall**
4207, 522 Francis Street East

Restaurants

**King’s Arms Tavern**
East Duke of Gloucester Street

**Berret’s Seafood**
199 South Boundary Street

**Food for Thought**
1647 Richmond Road
### Keynote Presentations

**Benjamin Franklin: Swimming Your Way to Enlightenment**  
Mitchell Kramer as Benjamin Franklin, Actor & Historian  
**Thursday October 17**  
From an early age Benjamin Franklin loved the water and was an avid swimmer his entire life. He crossed the Atlantic Ocean many times throughout his life, and his study of swimming led to his earliest invention, the swim flippers. Ocean crossings allowed him a chance to map and name the Gulf stream. Eventually his work would lead him to the study of hydrodynamics. Franklin’s study of electricity and his participation in the revolution are driven by his Enlightenment principles.

Learn how the love of nature and the discovery of man’s place in the world began in a small swimming pond off Mill Street in South Boston.

**Stop Being A Leader. Start Being THE Leader.**  
Ryan Avery, Keynote Speaker, AveryToday, Inc.  
**Friday October 18**  
Today’s world is competitive, innovative, and fast-paced. When serious about growing our business, it is no longer acceptable to offer A product, A solution or even be A Leader. Today’s consumers, employees, and followers want THE product, THE solution, and THE leader to follow. When we want to eliminate our competition, set record sales, motivate others to action, and produce solutions that actually matter, it’s time to go from A to THE. Ryan Avery is the right speaker to deliver these game-changing, life-magnifying strategies that allow audience members to step up to achieve next-level results.
Pre-Conference Events

**Insider's Tour:** October 16, 10:00 am–2:00 pm
Take a special tour of local, unique aquatic facilities to gain different perspectives on design, equipment, and operation. Lunch and transportation is covered in the $65 fee.

**CPO Certification Course:** October 16, 8:00 am–5:00 pm
Earning a CPO Certification provides individuals with a better understanding of the operator's role in pool care, basic pool operation, and risk reduction. Widely accepted in many states and countries as the standard of care for education, this comprehensive course is offered in two formats: choose from a two-day in-person class (October 15 & 16) or blended online and one-day in-person class (October 16). Both formats include the Pool & Spa Operator Handbook and certification fee.

**Instructor Update Meeting:** October 16, 3:00 pm–5:00 pm
Instructors are encouraged to attend the International Instructor Meeting held at the WAHC each year. Awards are presented to top instructors and new products/programs are introduced in detail. Engage with other Instructors and staff to provide feedback on teaching practices that are going well and opportunities for improvement.

**Environmental Health Leader's Symposium:** October 16, 10:00 am–2:00 pm
This symposium allows environmental health officials to gather from jurisdictions around the country to share information on how to protect patrons at public pools and spas. Past sessions have addressed topics such as Legionnaires, plan review, inspector training, and dog paddle events. Symposium includes lunch roundtable. The event is free to WAHC registrants and $25 for non-registrants. Email conference@phta.org for more information.

Post-Conference

**Colonial Williamsburg Tour**
October 19, 10:00 am–12:00 pm
Before you leave, take a guided tour of Colonial Williamsburg.

**Build-A-Pool Conference**
October 19, 8:00 am–5:00 pm
October 20, 8:00 am–5:00 pm
The Regional Build-A-Pool Conference by USA Swimming will offer plans for programming facilities for sustainability plus innovative ideas and examples for new building and renovations. Visit usaswimming.org/buildapool for more information.

**Water Safety USA Meeting (closed meeting)**
October 19, 8:00 am–5:00 pm
The annual in-person meeting of this water safety roundtable.

Interested in Hosting a Meeting at the WAHC?
We offer several opportunities for a complimentary and convenient place to meet with your group. conference@phta.org
2019 WAHC Schedule at a Glance

**Monday, October 14**
- 7:15 am–8:15 am: Instructor School Breakfast (closed event)
- 8:00 am–5:00 pm: Instructor School (closed event)
- 12:30 pm–1:30 pm: Instructor School Lunch (closed event)

**Tuesday, October 15**
- 7:30 am–9:00 am: Instructor School Breakfast (closed event)
- 8:00 am–5:00 am: Instructor School (closed event)
- 8:00 am–5:00 pm: CPO Certification Course* 
- 12:30 pm–1:30 pm: Instructor School Lunch (closed event)
- 1:00 pm–5:00 pm: Recreational Water Quality Council Meeting (closed event to council members)

**Wednesday, October 16**
- 7:30 am–6:00 pm: WAHC Registration Open
- 7:00 am–8:00 am: Instructor School Breakfast (closed event)
- 8:00 am–12:00 pm: Instructor School (closed event)
- 8:00 am–5:00 pm: CPO Certification Course* 
- 8:00 am–5:00 pm: Recreational Water Quality Council Meeting (closed event to council members)
- 10:00 am–2:00 pm: Insider’s Tour* 
- 10:00 am–2:00 pm: Environmental Health Leader's Symposium* (closed event to EH officials)
- 3:00 pm–5:00 pm: Instructor Update Meeting (closed event to Instructors)
- 6:30 pm–9:00 pm: Welcome Reception

**Thursday, October 17**
- 7:00 am–5:30 pm: WAHC Registration Open
- 7:15 am–8:15 am: Speaker’s Breakfast* 
- 7:30 am–8:30 am: Continental Breakfast

*Pre-registration required

**Questions?**
Email conference@phta.org

**Add-Ons**

**CPO Certification**
- **1 Day Course** $365
- **2 Day Course** $345

**Insider’s Tour** $65

**Welcome Reception Guest Ticket** $40
2019 WAHC Schedule at a Glance, cont.

Keynote: Mitchell Kramer as Benjamin Franklin

8:30 am–9:30 am  
9:30 am–10:00 am  
10:00 am–12:00 pm  
12:00 pm–1:30 pm  
1:30 pm–2:30 pm  
2:30 pm–3:00 pm  
3:00 pm–5:00 pm

Friday, October 18

7:30 am–3:00 pm  
7:30 am–8:30 am  
8:30 am–9:30 am  
9:30 am–10:00 am  
10:00 am–12:00 pm  
12:00 pm–1:30 pm  
1:30 pm–3:20 pm  
3:20 pm–4:30 pm

Keynote: Ryan Avery

Saturday, October 19

7:00 am–8:00 am  
8:00 am–5:00 pm  
10:00 am–12:00 pm  
11:30 am–1:00 pm

Sunday, October 20

7:00 am–8:00 am  
8:00 am–5:00 pm  
11:30 am–1:00 pm

More Add-Ons*

Colonial Williamsburg Tour $35

Speaker Breakfast Ticket $25

Guest Breakfast Ticket $15

Guest Lunch Ticket $25

Stay in the Loop

Follow us to get the latest updates, announcements, and a chance to enter giveaways only available through social media.

* Pre-registration required
Session Schedule

Thursday, October 17

10:00 am

- Health Effects of Disinfection Byproducts (DBP) & Strategies to Reduce Exposure, Vance D. Fiegel
- Software Approach to the Integration of Aquatic Facilities with Regulators, Forrest Montgomery
- Better Indoor Air: MAHC as a Vehicle for Change; Air Quality Ad Hoc Committee Update, Chip Blatchley, Doug Sackett & Harry Milliken
- The Preventable Adult Drowning Epidemic: A Call to Action, Kari Hemund & Mary Wykle
- Preventing Pool Chemical Injuries, Kayla Esschert

11:00 am

- Filter Your Aquatic Venue Smarter for Safer & Cleaner Water, James Amburgey
- AOP & UV: The Facts & Figures Behind Better Water Care, Tom Schaefer
- Roundtable: Is More Outside Air the Only Answer to Better IAQ?

Chip Blatchley, Doug Sackett & Harry Milliken

Safety Operations for Open Water Swimming Events, Dan Jones

Outbreak of Gastrointestinal Illness Among Patrons and Employees of a Water Park Following a Backflow Prevention Error—Colorado, 2018, Tori Burket

1:30 pm

- Developing Effective HVAC Strategies to Limit Trichloramine Exposure in Indoor Aquatic Facilities, Jason Sliusarczyk, Joseph Seidl & Sue Hopper
- Understanding the NSF Listing for UV Systems as a Water Conditioning Device, John Watt & Mike Fowler

CMAHC Update: Leadership and Other Changes, Mini-MAHC’s, Committee Work, CMAHC Certification, MAHC Adoption and Influence on Aquatics, Kristie Riester, Doug Sackett & Joe Laco

Drownings in Lifeguarded Pools: Why Submerged Victims Go Unnoticed, Maria Bella

Crypto Here, Crypto There, Crypto, Crypto, Everywhere?, John Kelly

The Road to “Better Than 90% Treatment Efficacy,” Gerhard Weiss & Steven Mueller

Digital Documentation: Moving Record-Keeping to the Cloud, Kevin Post


Drowning Prevention Week: How Iowa is Using Media, Educational Activities, and Drowning, Mindy Uhle & Chelsea Stevens

Burden and Direct Healthcare Cost of Waterborne Disease in the United States: Implications for Swimming and Aquatics Facilities, Vincent Hill
4:00 pm
- The Impact of DBP & Combined Chlorine on Air & Water Quality, Joseph Laurino, James Egan, Kenneth Gregory, Jody O'Grady, & Terry Arko
- The Benefits of Ultra Fine Bubbles for Aquatic Facilities, Michael Geyer
- Assessing the Impact of Cyanuric Acid on Bather's Risk of Gastrointestinal Illness at Swimming Pools, Richard Falk
- Surf Parks: Are They Pools? Are They Lakes? Michele Hlvasa

11:00 am
- Deeper Dive with Ryan Avery, Ryan Avery
- Distracted Lifeguards: Reducing Distractions to Improve Lifeguard Readiness, Dan Jones
- The Main Attraction: Transforming Public Pools with the Waterpark Model, David Hoy
- The Future of Disinfection, Ellen Meyer
- What's New, What's Different with the Updated APSP 16, Sung Choe

2:30 pm
- Preventing Accidental Chlorine Gas Exposures at Aquatic Facilities, Kevin Boyer
- Land vs. Aquatic Strength Training, Mary Wykle
- Transforming Aquatic Centers into a Community's Third Space, Josh Martin
- Secondary & Supplemental Sanitation: The Adoption Dilemma, Tom Schaefer
- Swiftly Moving: Float Tank Standards & Regulations, Graham Tally & Ashkahn Jahromi