

# **Annual Convention & Exposition**

September 11-14, 2019 Palm Springs Convention Center and Renaissance Palm Springs Hotel



# COOLING WATER SUBCOMMITTEE LEARNING LOUNGE AGENDA

- 1. WELCOME AND INTRODUCTION
- 2. 2019 PROJECT REVIEW
- 3. EXPERT PANEL DISCUSSION Q&A SESSION:

"Program Control Responsibilities:

**Shared Water Treatment Agreements**"

# **BIOFILM MONITORING PROJECT**

- 1. OBJECTIVE To complete a Comparative Study on field appropriate PASSIVE BIOFILM collection and monitoring methods
- 2. <u>BENEFITS TO AWT</u> Provide members with insights about PRACTICAL TOOLS that can allow for quantitative biofilm measurements usable on routine service calls.
- 3. WORK GROUP
  - a) Allison Bond (Premier)
  - b) Keith Johnson (Keith Johnson Consulting)
  - c) Rick Rosser (AMSA)
  - d) Derrick Vandenburg (Guardian)
  - e) John Caloritis (Metro)
- 4. PROJECT STATUS/UPDATE Submitted for Board approval, with request for the first version to be posted at awt.org. #AWTConf2019

# **BIOCIDE USE SURVEY**

- 1. OBJECTIVE To capture member opinions and industry trends related to the use of biocides in the water treatment industry. Completed a two-part survey over 18 months.
- 2. <u>BENEFITS TO AWT</u> The report is expected to highlight patterns, market sector insights, and clarify preferences/approaches.
- 3. WORK GROUP
  - a) Gary Garcia (Masters)
  - b) Rich Moll (Water Chemistry Consultants)
  - c) Tom Mercer (Dubois)
  - d) Ken Soeder (Jamestown)
  - e) Rick Rosser (AMSA)
  - f) John Caloritis (Metro)
- 4. PROJECT STATUS/UPDATE Part 1 was shared in this forum in 2018, and Part 2 was recently completed. Committee expects to post to awt.org in early 2020.

# **ON-LINE MONITORING PROJECT**

- 1. OBJECTIVE To develop a paper entitled "Demystifying Cooling Water On-Line Monitoring & Control Platforms"
- 2. <u>BENEFIT TO AWT</u> To provide the membership with the plain facts and a "user's guide" associated with this sector which is growing in demand and complexity
- 3. WORK GROUP
  - a) Saurabh Banerjee (Pulsafeeder)
  - b) Tim Keister (ProChemTech)
  - c) Vincent O'Reilly (Metro)
  - d) Paul Peacock (Lakewood)
  - e) John Caloritis (Metro)
- 4. PROJECT STATUS/UPDATE Paper is 75% Complete and expected to be submitted for Board review and approval by end of year.

# MICROBIOLOGICAL MONITORING PROJECT

- 1. OBJECTIVE To produce a resource document that puts all Microbiological Monitoring tools in one place for members to identify, reference and source.
- 2. BENEFIT TO AWT A three-part spreadsheet illustrates Biocide Tests, Field Tests and Laboratory Methods and provides relevant descriptive/background information for each.
- 3. WORK GROUP
  - a) Eric Liimatta (Albermarle)
  - b) Kristin Majeska (Idexx)
  - c) Tom Mercer (Dubois)
  - d) Rich Moll (Water Chemistry Consultants)
  - e) Shivy Selvaratnam (Weas Engineering)
  - f) John Caloritis (Metro)
- 4. PROJECT STATUS/UPDATE Project now complete and submitted to the Board for approval at this meeting. Expectation is for posting on awt.org/Cooling

# SHARED WATER TREATMENT

**EXPERT PANEL DISCUSSION** 

LIABILITY REDUCTION THROUGH UP-FRONT CLIENT AGREEMENTS



# Project Background – Shared Water Treatment (Ken Soeder – Jamestown Chemical)

#### **PROJECT CONSIDERATIONS –**

- 1. Tool Developed to ensure WT program success and to minimize WTSC liability
- 2. Outlines Necessary WT Program Workflow Requirements broken down by size and/or system complexity
- 3. Involves the Client in the process and taking ownership over program administration
- 4. Provides a template for potential contractual use by AWT members
- 5. Project has roots in earlier unfinished work previously aimed at development of a WT Specification

## **WORK GROUP** –

- **Ken Soeder (Jamestown)**
- Gary Garcia (Masters Co.)
- **Anthony Selby (Water Consultants, Inc.**
- Keith Johnson (Keith Johnson Consultants)
- John Caloritis (Metro)



# Jay Farmerie, CWT



alm Springs Convention Center and Renaissance Palm Springs Hotel



Jay Farmerie, CWT

Cyrus Rice Water Consultants, Inc.

**Contact Information:** 

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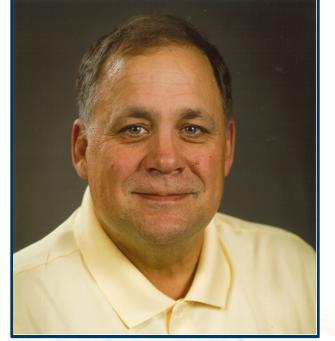
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#### **EXPERTISE AND SKILL:**

- Water Treatment Certified Water Technologist (CWT)
  - Cooling Towers/Process Waters, Closed Loop Systems, Boiler Water & Wastewater Systems
  - Water Treatment Chemistry: Formulations / Scale, Corrosion & Microbial Control;
  - Metallurgical Interpretations on pipe & system failures as it relates to water-based systems;
  - Treatment program effectiveness and conformance to regulatory requirements
  - Expert Witness in 30+ Water Treatment cases
- NACE Task Group Chairman of "Preoperational Cleaning Standard" & "Monitoring Cooling Water Systems Standard Development"
  - Enhanced Tubes in shell and tube heat exchangers and chillers.
- > ASTM Standards Development for D19 Water and D22 Legionella Testing Protocols

#### PROFESSIONAL BACKGROUND:

- **Cyrus Rice Water Consultants, Inc. 1994 Present**
- **GLA Water Consultants, Inc 1992 Present**
- Great Lakes Associates, Inc., 1987-1994 (Water Management Group)
- Merck & Company, 1977-1987 (Calgon Corporation)
- Combustion Engineering, 1975-1977
- Association of Water Technologies (AWT): Past President (2005)
- AWT / Ray Baum Memorial Water Technologist of the Year Award (2009)
- BS Chemistry (DeSales University)/ Masters in Business & Science (Robert Morris University)



# Adam Green, Esquire







**Adam Green** 

Water Treatment, Construction & Infectious Disease Litigation

#### **Contact Info:**

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#### **Relevant Expertise**

#### **Chairman, Water Technology & Water Treatment Group**

#### **Water Treatment**

- Consulted and defended litigation arising from issues incident to shared responsibility between owners, managers, maintenance staff and water treaters on a national scale
- Successfully defended multi-million dollar lawsuits involving corrosion related failures of mechanical equipment and condenser water systems for the past 18 years
- Consulted and defended disputes arising from a litany of failure modes and causes including operational errors, design issues, improper commissioning, passivation, inadequate cycling, over-firing, improper layup, dead legs and inadequate flow

#### Legionella & Infectious Disease

- Defense and complete dismissal of water treaters from multiple Legionella fatalities
- Successfully argued the issue of legal duty and responsibility to US Appellate Courts

#### **Professional Background**

- Baker Donelson Bearman Caldwell & Berkowitz, PC: December 2000 to present
- Author/Presenter, AWT, CTI, IADC, ASPE

# Michael J. Highum, CPCU







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Michael J. Highum, CPCU — As Vice and Partner of McGowan President Group, Mike directs Insurance and spearheads all marketing and public relations initiatives for the firm. In addition to his account executive duties, Mike oversees the agency's specialty practice groups including Chemical & Environmental and Life Science & Technology. He also regularly speaks and consults on a wide variety of risk management related topics. Responsible for the public image of the firm, Mike enhances the agency's lasting impact not only in the community, but across the nation.

# **Bill Pearson, CWT**





W.E. (Bill) Pearson II, CWT

**BPEARSON** Consulting LLC / Arthur Freedman Associates, Inc.

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### **EXPERTISE AND SKILL:**

- **➤ WATER TREATMENT Certified Water Technologist (CWT)** 
  - Cooling Towers/Process waters, Closed Loop Systems, Boiler Water Systems,
  - Water Treatment Chemistry: Formulations / Scale, Corrosion & Microbial Control
- **► LEGIONELLA SME Consultant / Expert Witness** 
  - ASHRAE SSPC-188 / Legionella Standard, Vice Chair
  - ASHRAE SPC-514 / Building Pathogens Standard (NSF)
  - AWT Legionella Guideline, author / Task Force, Chair
  - CTI GDL-159 / Legionella Guideline, Chair
  - ASSE / Legionella Water Management Specialist Qualifications Standard committee

## PROFESSIONAL BACKGROUND:

- Independent Consulting: Jan/2018 to present
- Special Pathogens Laboratory: Sr. VP Business Development / Apr'16-Jan'18
- Southeastern Laboratories, Inc: VP / Consulting-Technical Services / Sep'75-Mar'16
- Association of Water Technologies (AWT): Past President (2003)
- AWT / Ray Baum Memorial Water Technologist of the Year Award (2005)
- BS Biology / Medical Biochemistry

