



Beyond Operations: 2018 Spring Utility Management Conference / Recognition Luncheon
Tuesday, March 13 and Wednesday, March 14
Caesar's, Atlantic City

Pre-Conference Event: *Commissioners Coffee March 13 at 10 a.m. in Tiberius room, 3rd floor. Peggy Gallos will interview David McGimpsey about authorities outside of New Jersey – freewheeling and interactive discussion. \$35 to register. Must do so by Wednesday, March 7. Coffee/tea will be served. Badge and ticket required.*

Please visit the exhibit hall in Palladium B, beginning at 11 a.m. Lunch will be served at 11:30 a.m. Badge and ticket required.

Tuesday, March 13
1 p.m.
 Welcome

Available credits

Tuesday – 3 W/WW TCh

Wednesday – 2 W/WW TCh

1 CPC (14B only)

Presenters and Presentations

Leadership in the Water Industry

David T. McGimpsey, creator of *The Water Values* podcast

Dave McGimpsey's many interviews of movers and shakers in the water and wastewater industry have given him a unique perspective on how leadership can be applied in ratemaking, infrastructure management, resilience, regionalization, and in the utility's interconnection to business & economic development as well as managing the customer relationship. Attendees who design and build infrastructure and who deliver water, wastewater and solid waste utility service will be able to apply this perspective in their work.

1 W/WW TCH

Implementations Update: Water Quality Accountability Act/2% Bill Cap for RSAs

Peggy Gallos, Executive Director and other AEA Leaders

These two new laws each present special challenges to the people who design, maintain and run drinking water systems and to those who support and work for sewerage authorities. Both these laws are expected to have consequences that could ultimately affect every public agency delivering wastewater and drinking water services in New Jersey.

.5 W/WW TCH

Financial Incentives to Upgrade Environmental Infrastructure

Steve Luttrell, Parker McCay

New Jersey municipalities and county authorities are faced with an urgent need to upgrade their water, wastewater, and stormwater systems due to ageing infrastructure and the impact of more intense weather events and rising sea levels. A recent state-wide task force reported to the legislature that the State's drinking water structure was in dire need of upgrade. Concurrently, the New Jersey Environmental Infrastructure Trust (NJEIT), a low cost financier of environmental infrastructure projects, reported that many townships have been delaying an investment in their water, wastewater, and stormwater infrastructure to their peril. Recently, Moodys Investment Services, a major credit rating agency, announced that its government bond ratings would factor into account whether a particular government issuer was prepared for climate-related shocks to its infrastructure. Particularly, it will assess how the issuer is addressing climate resiliency and risk management. All of these developments affect how public agencies are managed, how their work is financed, how capital projects are chosen or designed, and how staffing and other administrative matters are handled. Luttrell will discuss the implications for all of them.

.5 W/WW TCH

Adapting to the new FAST (Financial Automation Submission Tracking) System

Maureen Mitchell, NJ Department of Community Affairs

The Department of Community Affairs Division of Local Government Services (DLGS) is replacing the current submission procedures with an online process. Local units will have to adapt. The Financial Automation Submission Tracking system (FAST) is a web-based business processes management system that DLGS promises will enable it to

better handle regulatory mandates affecting local jurisdictions related to the collection, approval and reporting of financial data. The change is expected to make the submission, review and approval more efficient and thorough. This presentation will help commissioners, administrators and executive directors understand the new process and its implications, and it will assist those who prepare budgets and other documents navigate the new system successfully.

.5 W/WW TCH

Retaining Top Talent

Brian Valentino, Western Monmouth UA

The environmental sector is a seller’s market when it comes to recruiting and keeping top team members. This session will focus on employee retention techniques and best practices from across the nation including: Meeting the desires of a diverse workforce (Boomers vs. Millennials), conducting the “stay interview” and employee engagement best practices. Attendees will learn techniques and best practices they can apply in their work.

.5 W/WW TCH

Networking Reception 4:45pm

Palladium B Badge and ticket required.



Wednesday, March 14

7:00 a.m.

Continental Breakfast – Palladium B

Caesar’s Floor Plan, Page 4

8:30 a.m.

Palladium C

Welcome

Presenters and Presentations

New Jersey’s Economic Outlook

Dr. James W. Hughes, University Professor and the former Dean of the Edward J. Bloustein School of Planning and Public Policy at Rutgers, The State University of New Jersey.

Dr. Hughes will draw from his extensive research and policy background to discuss national and Garden State business cycles and significant changes in demographics such as the faltering growth of NJ suburbs. His insights will provide commissioners, consultants, attorneys and managers, and anyone who plans a career in the NJ water/wastewater/solid waste sector with information that will help inform their planning, design, financial decisions and asset management.

1 W/WW TCH

10 a.m.

Concurrent Sessions

<p>14A Information Technology <i>(To be held in Palladium C)</i></p>	<p>14B Challenges in Treating and Supplying Water <i>(To be held in Tiberius Room on Level 3)</i></p>
<p>Cyber Security for Water and Wastewater Utilities David Chanda, Suburban Consulting Engineers, Inc. Mr. Chanda plans to discuss how cyber security has grown in importance as the world has changed from paper to digital. He will do a deep dive into recent legislation that affects water and wastewater utilities -- the Water Quality Accountability Act. Chanda will discuss how utilities can meet the new requirements by using proper security measures. This discussion will</p>	<p>Peracetic Acid Disinfection—a Solution for CPO Chris Jepson, Van Cleef Engineering Tom McAndrew, Berkeley Heights WWTP The Berkeley Heights WWTP was facing very stringent DMR limits for chlorine-produced oxidants (CPO) and installation of very costly UV disinfection appeared to be the only alternative. However, BHWWTP was subsequently learned of peracetic acid (PAA). PAA, a mixture of vinegar and hydrogen peroxide has been</p>

include areas for concern as well as best practices to help ensure the protection of client and company information.

Resilience in Today's Cyber Eco-system

Chris Mangano, Mercadien

Michael DePalma, Datto

Evolving technology is affecting every organization; we're able to gather, evaluate and use information at a pace, never before seen. The integration of global networks, have removed past barriers to sharing information. Enter the Cyber-Ecosystem: "Like natural ecosystems, the cyber ecosystem comprises a variety of diverse participants – private firms, nonprofits, governments, individuals, processes, and cyber devices (computers, software, and communication-technologies)...that interact for multiple purposes..." according to the Department of Homeland Security. Information sharing is, at once, the cyber-ecosystem's primary benefit and threat. Private data is becoming increasingly accessible to criminals/bad-actors. It's not a question of "if" but "when" your organization will fall victim to a cyber-attack. Organizations of all sizes need to make sure they've developed and can follow a Resiliency & Business Continuity Management (BCM) process in the event of a disruption; BCM is a "management process that identifies risk, threats and vulnerabilities that could impact an entity's continued operations and provides a framework for building resiliency and the capability for an effective response". Experts from Mercadien Technologies & Datto will help attendees understand the importance and value of a business impact analysis (BIA) and how any size organization can put in place a BCM plan that is affordable & practical.

Data Systems Management

Sami Sarrouh, T&M Associates

Utilities collect a lot of data from operation and business functions. In most cases the data is kept in separate databases which makes it harder to keep secure, cross check, analyze and utilize for enterprise level decision making. This presentation provides insight into newer approaches to integrate, secure and validate SCADA, maintenance, GIS and other data to improve day to day as well as emergency operational decisions and provide a single source of truth for upper management to reliably monitor and plan enterprise activities.

1 W/WW TCH

used with FAA approval in the food industry for decades. It exhibits very little toxicity (WET tests @ 100%) and breaks down readily in the environment. After conducting bench test studies with promising results, the utility approached the DEP and proceeded. This presentation will discuss the various design aspects and necessary components for BHWWTTP to utilize PAA in satisfying very stringent DMR limits and maintaining regulatory compliance. The DEP approved the QAPP and indicated it would modify the permit to remove CPO and chlorine residual requirements.

Causes and control of algae and algal toxins

William Becker, Hazen and Sawyer

The shut-down of the Toledo, Ohio water system two summers ago due to detected algal toxins has brought national attention to a water quality issue that has been increasing in recent years and is expected to become an even bigger issue for more utilities as our climate changes and extreme events like droughts and intense rainfalls occur more frequently.

Algal blooms cause both physical and chemical treatability issues. Low density algae can contribute greatly to particle counts and turbidity, and do not settle well as associated engineering principles will be presented. This often causes poor settled water quality and short filter runs which can limit a plant's original design/production capacity. Algae also produce raw water quality changes, specifically reductions in dissolved oxygen, and fluctuation in pH and TOC, occurring on a diurnal cycle which can result in treatability issues including wide swings in filtered water particle counts and changes in coagulant demand. Some algae (and actinomycetes) produce taste and odor (such as geosmin and MIB) and algae derived toxins.

The results from a study of water bodies and utilities across the country that have experienced algal events have been synthesized into design recommendations to water utilities on how to best respond to algae and algal toxins.

1W/WW TCH, 1 CPC

12:15 Recognizing Excellence Luncheon – Palladium B

Wave Awards and Environmental Professional Development Academy Ceremonies. Badge and ticket required

Caesar's Floor Plan

Second Level



Palladium Rooms

Tiberius Room

Third Level (North)





**Association of Environmental Authorities
Beyond Operations
Utility Management Conference
March 13 and 14, 2018
Caesar's, Atlantic City**

Featuring Annual Recognition Luncheon

Registration Fees**

Plan A: \$355 Full Conference

Plan B: \$249 Tuesday Only (incl. lunch/reception)

Plan C: \$199 Wednesday Only (incl. breakfast/lunch)

Plan D: \$90 Spouse/Guest Full (incl. all food functions)

Plan E: \$59 Spouse/Guest Tuesday (incl. lunch/reception)

Plan F: \$59 Spouse/Guest (including breakfast/lunch)

****Non-members add \$75 additional to each plan**

Returning a copy of this completed form insures you a reservation at the above seminar/conference. Send us the form with or without a check. No need to send your voucher for a separate signature. **This form has been approved by the Local Finance Board and meets the requirements for certification of performance of service.**

NO REFUNDS AFTER FEB. 28, 2018

Affiliation _____

Address _____

Phone _____ **Fax** _____ **Email** _____

***PLEASE READ before you complete the forms on the following pages!
Complete registration and, as appropriate, licensing and certification sections.***

All registrants attending must choose a concurrent session on Wed., March 14
so that we can ensure adequate seating
Choose 14 A (Information Technology) or 14B (Challenges in Treating and Supplying Water)

Name of Registrant (<i>Water/wastewater licensees: Please provide info here AND below.</i>)	Plans A-F (Choose one)	Concurrent Sessions (Indicate one each day and for each attendee)		Cost
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		14A / 14B		

Name of Licensee Who Will Attend (Name MUST be EXACTLY as it appears on license.)	License Type	License Number (6 or 7-digit License # must appear EXACTLY as on license, including an zeros!)						

Certification by Approval Official

I certify and declare that this bill/invoice is correct, and that sufficient funds are available to satisfy this claim. The payment shall be chargeable to: Appropriation Account(s) and Amounts Charged: _____

IN HOUSE PO# _____ Signature: _____

Date: _____ Title: _____

CFO, Finance Director

Certification by Receiving Agency

I, having knowledge of the facts, certify and declare that the goods have been received or the services rendered and are in compliance with the specifications or other requirements, and said certification is based on signed delivery slips or other reasonable procedures, or verifiable information.

Signature: _____ Title: _____

Date: _____

Claimant's Certification and Declaration

I do solemnly declare and certify under penalties of the law that the bill or invoice is correct in all its particulars; that the goods have been furnished or services have been rendered as stated herein; that no bonus has been given or received by any person or persons within the knowledge of this claimant in connection with above claim; that the amount therein stated is justly due and owing; and that the amount charged is a reasonable one.

Date: March 2018 Federal Identification Number: 22-2405796 Signature: Karen Burris

Position: Office Manager

Make checks payable to AEA ~ No credits cards accepted.

Mail or fax to:

2333 Whitehorse-Mercerville Road, Suite 2, Mercerville, NJ 08619 or fax to (609) 584-8271

*If number of registrants/licenses exceeds available space,
please duplicate form and attach.*