

**Water Environment Association of Texas  
Municipal Resource Recovery Design Committee**

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**Presentation Title:** Peracetic Acid for Disinfection of Municipal Wastewater Effluent

**Presentation Date and Time:** Wednesday, October 11, 2017, 11:30AM-1:00PM

**Registration:** <https://attendee.gotowebinar.com/register/668344025138508291>

**Presenters:**

**Dr. Karl Linden**

Karl G. Linden is a Professor of Environmental Engineering and the Mortenson Professor in Sustainable Development at the University of Colorado Boulder. He has a BS from Cornell University in Agricultural and Biological Engineering and an MS and PhD from University of California at Davis in Environmental Engineering. Dr. Linden's research investigates efficacy of UV and oxidant disinfection for inactivation of pathogens; and the use of advanced oxidation processes for the degradation of organic and other emerging contaminants in water and wastewater. Dr. Linden is a consultant to the World Health Organization for revising the Guidelines for Drinking Water Quality and a member of the WHO Water Quality Technical Advisory Group. He received the 2013 Pioneer Award in Disinfection and Public Health from the Water Environment Federation and was WaterReuse Association's 2014 WaterReuse Person of the Year.

**Dr. Kati Bell, Stantec**

Dr. Bell currently serves as MWH's Water Reuse Global Practice Leader. Kati has extensive experience with selection, design and implementation of disinfection systems and she is skilled at troubleshooting facilities that experience challenges with disinfection compliance. Dr. Bell has led the North American industry in developing understanding and application of wastewater disinfection using peracetic acid (PAA). She is serving as Principal Investigator for the Water Environment & Research Foundation, PAA research project that will document the current state of the technology, and develop implementation guidance to support the growing interest in PAA. She has carried out PAA testing and/or system design for more than a dozen facilities in the U.S. She has a PhD in Environmental Engineering from Vanderbilt University and MS in Civil Engineering from Tennessee Technological University.

**Dr. Michael J. Watts**

Michael is a Water Technology Leader with Garver in Dallas, TX. For the past 13 years, he has focused on improving the design of oxidation and disinfection processes for water reclamation. In recent years, Dr. Watts has led studies of PAA disinfection on the laboratory bench, and at pilot- and full-scale. In addition, he has assisted (in multiple states) in the development of criteria for effective PAA disinfection, and safe residual discharge.

**Sarah A. Stewart**

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Ms. Stewart is an environmental engineer with 15 years of experience with planning and design for both water and wastewater utilities, site-civil design; wastewater collection systems and treatment; water and wastewater pump stations; and, potable water treatment, distribution and storage design. She is an employee with CDM Smith for the past ten years serving in multiple roles, currently she is an Associate and Senior Project Manager. Ms. Stewart has served as the project manager and/or project engineer for projects in the municipal, federal and industrial markets. She is also familiar with design/build project delivery for both the municipal and federal markets. Ms. Stewart has her B.S. in Civil Engineering from the Missouri University of Science and Technology (formerly University of Missouri-Rolla) and her M.C.E. from the University of Kansas. She is a licensed Professional Engineer in Texas, Missouri and Kansas.

## Leonard Levine

Leonard Levine is a licensed Professional Engineer with over 40 years of experience in the design and operation of industrial and municipal wastewater treatment facilities including the development and implementation of operator training programs for wastewater operators. Currently he serves as Technical Director for Gulf Coast Waste Disposal Authority (GCA) where he is responsible for the oversight of technology selection, design and operation for all GCA facilities. Leonard has been employed by GCA since 1980. Prior to his career at GCA, he was a consultant who did process design and operational upgrade work in a variety of wastewater treatment sectors. Over the years Leonard has coauthored and presented technical papers on a variety of subjects including control of VOC in industrial wastewater treatment facilities, process controls at industrial wastewater facilities, regionalization, disinfection, wastewater analytical and project implementation.

**Presentation Synopsis:** The presentation is on the use of peracetic acid for disinfection of municipal wastewater effluent. The following topics will be covered in the webinar:

### **Part 1: Peracetic Acid (PAA) Fundamentals**

*Speaker: Dr. Karl Linden, University of Colorado*

### **Part 2: PAA Current Regulatory Status and Issues**

*Speaker: Dr. Kati Bell, Stantec*

### **Part 3: WERF LIFT PAA Study Update**

*Speaker: Dr. Kati Bell, Stantec*

### **Part 4: Case Study #1 – Pilot testing of PAA with UV disinfection at Little Rock, AR**

*Speaker: Dr. Michael J. Watts, Garver*

### **Part 5: Case Study #2 – Full Scale Implementation of PAA at Washburn Tunnel, Gulf Coast Waste Disposal Authority (GCWDA)**

*Speaker: Sarah Stewart, CDM-Smith; Leonard Levine, GCWDA*

**Area of Interest:** Wastewater, 1.5 hrs of wastewater credit was requested through the TCEQ

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**Presentation Questions:** Will be sent next week.