

**33<sup>rd</sup> Annual Electric Utility Chemistry Workshop**  
**University of Illinois at Urbana-Champaign, Online & Continuing Education**  
**June 11–13, 2013**

**Tuesday, June 11**

**1:30 PM**      **Welcome**—K. Anthony Selby, Workshop Chair  
Elaine Wolff, University of Illinois at Urbana-Champaign

*Session Moderators: Chris Taylor, Ameren Missouri, and Chuck Curtiss, Illinois State Water Survey*

**1:40 PM**      **The Million Man (Hour) March to Safety**  
Joe Huber, NIPSCO  
*IN Wastewater .50 General contact hour*

**2:10 PM**      **A Full Standards & OEM Compliant—Film Forming Metal Passivation Technology—Low, Medium & High Pressure Boilers**  
Paul Hattingh, anodamine™ Inc

**2:40 PM**      **Impact of Film Forming Amines on the Reliability of Online Analytical Instruments**  
Randy Turner, Swan Analytical USA  
*IN Wastewater .50 General contact hour*

**3:10 PM**      **Break**

**3:30 PM**      **Power Plant Liquid Analytics Using Intelligent Sensor Technology**  
Kirk Buecher, Mettler-Toledo Thornton, Inc  
*IN Wastewater .50 Technical contact hour*

**4:00 PM**      **New Alternatives for Monitoring Flow Accelerated Corrosion**  
Kenneth Kuruc, Hach Company  
*IN Wastewater .50 General contact hour*

**4:30 PM**      **Troubleshooting an Ion Exchange Unit Mixed Bed**  
Don Downey, Purolite  
*IN Wastewater .50 Technical contact hour*

**5:00 PM**      **Reception and Vendor Display**

**Wednesday, June 12**

**8:00 AM**      **Morning Session—Announcements**, K. Anthony Selby, Workshop Chair

*Session Moderators: Prentiss Carter, Ameren, and Bill Boyd, Arizona Public Service*

**8:05 AM**      **Evaluating the Use of Condensate Polishers: Economic and Operational Considerations**  
Colleen M. Layman, HDR Engineering Inc  
*IN Wastewater .50 Technical contact hour*

**8:35 AM**      **Environmental Regulations Impacting the Electric Utility Industry**  
Bert C. Valenkamph, NIPSCO  
*IN Wastewater .50 General contact hour*

- 9:05 AM**      **Manganese-Induced Pitting of Stainless Steel Piping and Heat Exchanger Tubing**  
George J. Licina, Structural Integrity Associates  
*IN Wastewater .50 Technical contact hour*
- 9:35 AM**      **Photosynthesis-Inhibiting Biocide Solves Algae Fouling Problems in Recirculating Water Systems**  
Jeffrey Kramer, BWA Water Additives  
*IN Wastewater .50 Technical contact hour*
- 10:05 AM**      **Break**
- 10:30 AM**      **What Time Is It and How Many Redundant pH Measurements Do You Need?**  
Fred Kohlmann, Endress+Hauser  
*IN Wastewater .50 Technical contact hour*
- 11:00 AM**      **Particulate Filter Strategies for Plant Cycle Sample Stream Application**  
Billie Rea, NEER Forney Energy Center, and Nisso Fazliddinova, Florida Power and Light  
*IN Wastewater .50 General contact hour*
- 11:30 AM**      **The Invisible Power Plant Chemist—Rethinking Cycle Chemistry Monitoring**  
Randy Turner, Swan Analytical USA  
*IN Wastewater .50 Technical contact hour*
- 12:00 Noon**      **Lunch (provided)**

*Session Moderators: Rob Grabarczyk, We Energies, and Brad Buecker, Kiewit Power Engineers*

- 1:00 PM**      **Failure in a New Polyethylene Sulfuric Acid Storage Tank**  
Steve Barnes, NIPSCO  
*IN Wastewater .50 General contact hour*
- 1:30 PM**      **Factors for Selecting Reliable Heat Exchanger Tube Materials**  
Dan Janikowski, Plymouth Tube Company  
*IN Wastewater .50 General contact hour*
- 2:00 PM**      **Effectively Cleaning Cellular Plastic Cooling Tower Fill**  
Raymond M. Post, ChemTreat, Inc  
*IN Wastewater .50 Technical contact hour*
- 2:30 PM**      **Break**
- 3:00 PM**      **Online Biofilm Removal and Associated Heat Transfer Recovery in a Nuclear Power Plant Service Water System**  
Jim Green, GE Water and Process Technologies  
*IN Wastewater .50 General contact hour*
- 3:30 PM**      **The RO and UF Autopsy: Implementing Analytical Results**  
Ken Robinson, Avista Technologies  
*IN Wastewater .50 Technical contact hour*

**4:00 PM**      **Novel Biocide Program Maintains Condenser Cleanliness for Power Plant**  
Chris Baron, Ashland Water Technologies  
*IN Wastewater .50 Technical contact hour*

**4:30 PM**      **Optimization and Successful Chemical Cleaning of a Supercritical Boiler**  
Christopher Hegger, Ameren Missouri

**5:00 PM**      **Adjourn**

**Thursday, June 13**

**8:00 AM**      **Closing Session—Announcements**, K. Anthony Selby, Workshop Chair

*Session Moderators: Dave Stamp, NIPSCO, and Bob Mitzel, Ameren*

**8:05 AM**      **Combustion Turbine Inlet Air Cooling**  
Brad Buecker, Kiewit Power Engineers  
*IN Wastewater .50 General contact hour*

**8:35 AM**      **SCR Operating Experience at Ameren Duck Creek Energy Center**  
Prentiss Carter and Jim Chaney, Ameren Energy Resources  
*IN Wastewater .50 Technical contact hour*

**9:15 AM**      **Advances in Fugitive Dust Control**  
Kevin Boudreaux and Adam Metzger, Nalco Company  
*IN Wastewater .50 General contact hour*

**9:45 AM**      **Break**

**10:15 AM**      **How Stripping Biofilm from the Cooling Water Loop Impacts Power Plant Production Output**  
Tom Muilenberg, MIOX  
*IN Wastewater .50 Technical contact hour*

**10:45 AM**      **High Rate Softening and Silica Removal with Actiflo® Turbo**  
Michael Reyes, Veolia Water Solutions & Technologies  
*IN Wastewater .50 Technical contact hour*

**11:15 AM**      **Ameren Meramec Energy Center Outsourced Demineralized Water**  
Chris Taylor, Ameren Missouri

**11:45 AM**      **Cooling Water Microbial Control Impacts Overall Plant Performance**  
Kevin Boudreaux, Nalco Company

**12:15 PM**      **Adjourn**

**Please return your evaluations to the workshop registration table before you leave.**