

34th Annual Electric Utility Chemistry Workshop
University of Illinois at Urbana-Champaign, Center for Innovation in Teaching & Learning
June 3–5, 2014

Tuesday, June 3

- 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** **Some Safety Aspects of Chemical Delivery, Transfer, and Storage**
K. Anthony Selby, Water Technology Consultants™, Inc.
- 2:10 PM** **The Use of “Anodamine” to Eliminate Oxygen Scavenger in a Mixed Alloy System**
Bill Boyd, Arizona Public Service
IN Wastewater .50 Technical contact hour
- 2:40 PM** **Best Practices for the Measurement of pH in Ultrapure Water**
Fred Kohlmann, Endress+Hauser
IN Wastewater .50 Technical contact hour
- 3:10 PM** **Break**
- 3:30 PM** **Update on the Case Study of Full-Length Tube Coating and Condenser Life Extension**
James E. Mitchell, Plastocor
IN Wastewater .50 General contact hour
- 4:00 PM** **Achieving Excellence in Cycle Chemistry**
Randy Turner, Swan Analytical USA, Inc.
IN Wastewater .50 Technical contact hour
- 4:30 PM** **Optimizing Water Use and Minimizing Wastewater Generation within the Power Plant**
Josh Prusakiewicz, HDR Engineering, Inc.
IN Wastewater .50 Technical contact hour
- 5:00 PM** **Review of Boiler Tube Corrosion Gouging Mechanisms**
Mel J. Esmacher and K. Michael Adeosun, GE Power & Water, Water & Process Technologies
IN Wastewater .50 General contact hour
- 5:30 PM** **Reception and Vendor Display**

Wednesday, June 4

- 8:00 AM** **Morning Session—Announcements**, K. Anthony Selby, Workshop Chair
Session Moderators: Prentiss Carter, Dynegy, and Bill Boyd, Arizona Public Service
- 8:05 AM** **Biocide Treatment Startup On a Once-Through Water Cooling System**
Dwayne Crouse, FPL Cape Canaveral Energy Center
IN Wastewater .50 Technical contact hour

- 8:35 AM** **Surrogate On-line Monitoring: Finding the “Other Stuff in the Water” Using Non-Traditional Methods**
Kenneth Kuruc, Hach Company
IN Wastewater .50 Technical contact hour
- 9:05 AM** **Wet Scrubber Operations**
Scott D. Miller, Advatech LLC / URS Corporation
IN Wastewater .50 Technical contact hour
- 9:35 AM** **MATS and Monitoring for Mercury Emission Compliance**
Craig Myers, NIPSCO
IN Wastewater .50 Technical contact hour
- 10:05 AM** **Break**
- 10:30 AM** **Copper Transfer at the Ameren Missouri Rush Island Energy Center**
Chris Taylor, Ameren Missouri
IN Wastewater .50 General contact hour
- 11:00 AM** **Environmental Regulations: The Environmental Avalanche Continues—Part 3**
Bert Valenkamph, NIPSCO
IN Wastewater .50 Technical contact hour
- 11:30 AM** **The Problems with HRSG’s**
Joseph Schroeder, J. E. Schroeder Consulting LLC
IN Wastewater .50 Technical contact hour
- 12:00 Noon** **Lunch** (provided)
Session Moderators: Chris Taylor, Ameren Missouri, and Brad Buecker, Kiewit Power Engineers
- 1:00 PM** **Optical Dissolved Oxygen Measurement Rapid Response and Reliability**
Peggy Banarhall, Mettler-Toledo Process Analytics
IN Wastewater .50 Technical contact hour
- 1:30 PM** **Antiscalant Reduces Bottom Ash Dewatering System Maintenance and Overall Plant Total Cost of Operations**
Kevin Boudreaux, Nalco Power ITC
IN Wastewater .50 Technical contact hour
- 2:00 PM** **Use of Filming Amines in Power Plant Boiler Systems**
Daniel Cicero, Nalco, an Ecolab Company
IN Wastewater .50 General contact hour
- 2:30 PM** **Reduction in Condenser Biofouling and Backpressure Using a Proprietary Halogen-Based Biocide**
Robert Mitzel, Dynegy Operating Company
IN Wastewater .50 Technical contact hour
- 3:00 PM** **Break**
- 3:30 PM** **Cathodic Protection—A Tutorial for Power Plant Chemists**
George J. Licina, Structural Integrity Associates
IN Wastewater .50 Technical contact hour

- 4:00 PM** **Phosphate Hideout at Labadie Energy Center Following Boiler Chemical Cleaning**
Chris Taylor, Ameren Missouri
IN Wastewater .50 Technical contact hour
- 4:30 PM** **Sample Panel Modifications—A Practical Diagnostic Guide**
Ben Toon, Sentry Equipment Corp
IN Wastewater .50 Technical contact hour
- 5:00 PM** **Startup of a Flue Gas Desulfurization (FGD) Wastewater Treatment System While Addressing Regulatory Uncertainties Within Proposed Effluent Limitation Guidelines**
Cathy Ortiz-Wiegele, NIPSCO
IN Wastewater .50 Technical contact hour

5:30 PM **Adjourn**

Thursday, June 5

- 8:00 AM** **Closing Session—Announcements**, K. Anthony Selby, Workshop Chair
Session Moderators: Bob Mitzel, Dynegy Operating Company, and Chris Skates, Dynegy
- 8:05 AM** **X-Ray Fluorescence Spectroscopy (XRF) – Applications for Strong Base Anion Resins**
Gregory Bachman, Evoqua Water Technologies
IN Wastewater .50 Technical contact hour
- 8:35 AM** **Trouble Shooting an Ion Exchange Mixed Bed Unit—Part 2: What Are the Resin Problems?**
Don Downey, Purolite
IN Wastewater .50 Technical contact hour
- 9:05 AM** **Silica Leakage in Demineralizer Operation—Practical Solutions in Troubleshooting**
Scott Holloway, Buckman North America
IN Wastewater .50 Technical contact hour
- 9:35 AM** **Break**
- 10:05 AM** **Advancements in On-site Sodium Hypochlorite Generation Technology**
Thom Tackman, Process Solutions Inc.
IN Wastewater .50 Technical contact hour
- 10:35 AM** **Upgrading the Steam and Water Sample System at Southwestern Station Units 1-2**
David Webster, Solutions, Inc., and Troy Tallent and Greg Gray, American Electric Power (AEP) Southwestern Station
IN Wastewater .50 Technical contact hour
- 11:05 AM** **A New Understanding of Sulfate Source Terms in Condensate Polishers**
Matt Roth, Dow Water & Process Solutions
IN Wastewater .50 Technical contact hour
- 12:35 PM** **Adjourn**

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