

30th Annual Electric Utility Chemistry Workshop
University of Illinois at Urbana-Champaign, Office of Continuing Education
June 8-10, 2010

Tuesday, June 8

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

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

1:40 PM **Practical Quality Assurance of On-Line Analytical Measurements**
David M. Gray, Mettler-Toledo Thornton, Inc.

2:10 PM **UV Fluorescence Hydrocarbon in Water Monitors**
Chip Westaby, Turner Designs Hydrocarbon Instruments

2:40 PM **Development and Benefits of Laboratory Quality Assurance Program at Northern Indiana Public Service Company**
Linda Diggs, Northern Illinois Public Service Company

3:10 PM **Break**

3:30 PM **Pall Integrated Membrane System Enhances Makeup Water Quality and Results in Significant Operating Cost Savings**
Donna DeMarah, Pall Corporation

4:00 PM **Where Your Water Plant Is Costing You Money**
William Bornak, RTI/Recirculation Technologies Inc.

4:30 PM **Difficult and Unusual Locations of Air Leaks**
Steve Barnes, Northern Indiana Public Service Company, and Dusty Booth, DZAtlantic

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

Wednesday, June 9

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

Session Moderators: Dave Stamp, NIPSCO, and Brad Buecker, Consultant

8:05 AM **The Application of Six Years of Learning at the EUCW to the Installation of a New Boiler Make-up System at the University of Notre Dame Power Plant**
Jeff Guerra, University of Notre Dame

8:35 AM **Continuous Mercury Monitoring**
Don Klotz, M&C Tech Group

- 9:05 AM** **Optimizing Mercury Removal Processes for Coal-fired Power Plant Wastewaters**
Gerald Walterick, GE Water & Process Technologies
- 9:35 AM** **Mercury Reduction Plans at Northern Indiana Public Service Company: An Air and Water Perspective**
Bert Valenkamph, NIPSCO
- 10:05 AM** **Break**
- 10:30 AM** **Mercury Speciation Control in Coal-Fired Power Plants**
John Meier, Nalco Mobotec, Inc.
- 11:00 AM** **The NIPSCO Pathway to Copper Compliance at Michigan City Generating Station**
Catherine Ortiz-Wiegele, NIPSCO
- 11:30 AM** **FGD and/or SCR Gas Analysis**
Don Klotz, M&C Tech Group

Lunch (provided)

Session Moderators: Bill Boyd, Prairie State Power Plant, and Prentiss Carter, Ameren

- 1:00 PM** **Targeted In Furnace Injection**
Pat Mongoven, Fuel Tech, Inc.
- 1:30 PM** **Safe, Green, and Economical Biocide Strategy for Power Plant Cooling Towers**
Rodney Herrington, MIOX Corporation
- 2:00 PM** **Low Frequency Electromagnetic Technique Inspections Improving Boiler Reliability**
Shawn Gowatski, TesTex, Inc.
- 2:30 PM** **Break**
- 3:00 PM** **Principles of Corrosion Monitoring**
George Licina, Structural Integrity Associates, Inc.
- 3:30 PM** **Colloidal Silica and its Effect on Water Treatment Plants and Boiler Chemistry**
Chris Hegger, Ameren
- 4:00 PM** **Carbon Capture and Sequestration: An Overview of Technology**
Stephen Donner, Donner Solutions, LLC
- 4:30 PM** **Development of a Saline Reservoir Carbon Sequestration Project at Decatur, Illinois**
Robert Finley, University of Illinois Institute of Natural Resource Sustainability
- 5:00 PM** **Adjourn**

Thursday, June 10

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

Session Moderators: Bob Mitzel, Ameren, and Scott Reeves, Dominion

8:05 AM **Measurement and Control Aspects of pH using Inductively Coupled Bidirectional Memosens Technology in Flue Gas Desulfurization Process**
Bhupendrakumar Patel, Endress + Hauser Inc.

8:35 AM **Introduction to ABMet (Advanced Biological Metals Removal)**
Jill Sonstegard, GE Water & Process Technologies

9:05 AM **Ineffective Cooling Tower Chlorination due to FGD Treated Waste Contamination**
Rob Grabarczyk, We Energies

9:35 AM **Break**

10:05 AM **Microbiological Treatment for Removal of Heavy Metals and Nutrients in FGD Wastewater**
Stephen J. Shulder, Structural Integrity Associates

10:30 AM **Sampling and Monitoring High Purity Water Systems**
Wayne Bernahl, W. Bernahl Enterprises

11:00 AM **A Connection between Cycle Chemistry and Condenser Configuration: Part II**
Warren Welch, Intek

11:30 AM **Trace Contaminants Removal from FGD Waste Water**
H. Robert Goltz, Dow Chemical – Dow Water & Process Solutions

12:00 PM **Adjourn**

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