

**21st Annual Electric Utility Chemistry Workshop
University of Illinois
May 8-10, 2001**

Tuesday, May 8

Noon Registration Begins

1:00 Welcome – K. Anthony Selby, Conference Chair
Elaine Wolff, University of Illinois at Urbana-Champaign

Session Moderators: Bill Portz, Dynergy Midwest Generation, and William Boyd,
Kincaid Generation ALLC

1:15 Emerging Issues and Technologies
K. Anthony Selby, Water Technology Consultants Inc.

1:45 Getting the Most Out of Your On-Line Instruments
Daniel E. Meils, O&M Expert Group, NUS Information Services

2:15 Practical Application of Specific and Cation Conductivity
David M. Gray, Thornton Inc.

2:45 Break

3:15 Advances in Ion Chromatography for Applications in the Power Industry
Beverly J. Newton, Dionex Corporation

3:45 Corrosion Product Sampling – E.W. Brown Generating Station Unit 3
Michael C. Rupinen, Kentucky Utilities Company

**4:15 On Understanding Mechanisms that Control Dissolved Oxygen in Condenser
Condensate**
Joseph W. Harpster, Intek Inc.

4:45 Panel Discussion

5:30 Opening Reception and Vendor Display

Wednesday, May 9

7:30 Registration and Coffee

8:00 Morning Session

Session Moderators: Prentiss Carter, AES Edwards Power Plant, and Al Aschoff, Consultant

8:15 Practical Applications of Oxidation Reduction Potential (ORP) to Control Oxygen Scavenger Injection in Fossil Power Plants

Stephen J. Shulder, Constellation Power Source Generation

8:45 Equilibrium Phosphate Conversion and Case Histories for High Pressure Utility Boilers

George J. Verib, FirstEnergy Services Corp.

9:15 Break

9:45 The Troubleshooting of Condenser Tube Leaks

Eric J. Szymanski, The Atlantic Group

10:15 Cost of Chemistry Excursions

James A. Mathews, Duke Power Company

10:45 CO₂ Deepwell Cleaning and Line Pigging

Scott A. Glover, Cinergy Corporation

11:15 Panel Discussion

Noon Lunch (provided)

1:00 Afternoon Session

Session Moderators: Gregory Finigan, City Water Light & Power, and Stephen Donner, Consumers Energy Company

1:15 Wind Power in the 21st Century

Jesper Michaelsen, NEG Micon USA

1:45 Chemistry in HRSG's with High Blowdown in One Stage

James C. Bellows, Siemens Westinghouse Power Corporation

2:15 Combined Cycle Power Plant Chemistry – Concepts and Field Experience

Frank Gabrielli, ALSTOM Power Inc.

2:45 Break

- 3:15 Determining the Need for Chemically Cleaning a Boiler**
K. Anthony Selby, Water Technology Consultants, Inc.
- 3:45 Use of Gear Pumps for Demineralizer Chemical Regenerant Feeds**
Gary D. Bland, AmerenUE
- 4:15 Panel Discussion**
- 5:00 Adjourn**

Thursday, May 10

- 7:30 Registration and Coffee**
- 8:00 Closing Session**
Session Moderators: Scott Glover, Cinergy Corporation, and Kent Smothers, Illinois State Water Survey
- 8:15 Design and Modeling of Using Secondarily Treated Municipal Wastewater as Raw Water Supply to the LES (Lincoln Electric System) Salt Valley Combined Cycle Project**
Feiyu Ma, Burns & McDonnell Engineering Co., Inc.
- 8:45 Effective Nitrogen Blanketing of Power Generating Equipment for Oxygen Exclusion and Corrosion Control**
Ronald D. Wine, Ronald D. Wine Consulting
- 9:15 Portable Cooling Towers**
Tom R. Knapke, Cinergy – PSI Energy
- 9:45 Break**
- 10:15 Off-site Condensate Resin Regeneration by Service Contract**
Gregory L. Bartley, Tennessee Valley Authority
- 10:45 Eliminating Copper in Utility Feedwater: Removing the Source Versus Removing the Corrosion/Erosion Products**
Charles R. Mosser, Graver Technologies Inc.
- 11:15 Panel Discussion**
- Noon Adjourn**