Critical aspects of the utility water cycle
Tutorials given by internationally known experts
Practical applications from electric utility experience

Format geared toward improved training and continuing education of personnel responsible for electric utility chemistry

Sessions Include:

MAY 10–12, 2005
Hawthorn Suites
Champaign, Illinois

Extending the Life and Reliability of Power Plant Equipment through Improved Chemical Control

Sponsored by
University of Illinois at Urbana-Champaign - Office of Continuing Education
Illinois Department of Natural Resources - Illinois State Water Survey
About the Workshop

Now in its 25th year, this comprehensive program features state-of-the-art information on controlling corrosion and improving operation efficiency for fossil- and nuclear-fueled power plants. This year’s program is geared toward improved training and continuing education of personnel responsible for electric utility chemistry.

More than 3,000 chemists, consultants, and power plant administrators have attended the workshop since its inception in 1981. The 2005 program has been developed by a committee of representatives from midwestern electric utilities, the Illinois State Water Survey, the University of Illinois at Urbana-Champaign, and consultants serving the power industry.

Some of the most popular features of the workshop are the Utility Experience presentations. Seasoned professionals from utility companies discuss their experiences on a range of topics. The entire workshop has been structured to encourage participation from attendees.

A notebook containing current water treatment papers, reports, copies and/or outlines of papers presented, along with product information, is included in the registration fee. Notebooks are also available for those who cannot attend the meeting at $75 each. See the registration form to order.

Who Should Attend

This workshop is specifically designed for personnel involved in day-to-day decisions affecting the performance of electric utility generation in fossil-fueled and nuclear power plants. The program applies equally to power plant chemists and engineers as well as power plant designers and consultants, industrial and institutional plant engineers, managers, and operators.

Continuing Education Units

Each participant completing the workshop is eligible for 1.6 Continuing Education Units (CEUs) from the University of Illinois at Urbana-Champaign. CEUs are nationally recognized units of achievement, which may be used as evidence of increased performance capabilities and for professional advancement. If your position requires CEUs for certification renewal, please inquire at the registration desk when you arrive for the workshop.

Approval is pending from the Indiana Department of Environmental Management for this program to apply to requirements for Wastewater Treatment Plant Operators. Indiana Department of Environmental Management forms will be available at the registration desk.

Tuesday, May 10

Noon  Registration

2:00 PM  Welcome (note change in starting time)
  K. Anthony Selby, Conference Chair
  Elaine Wolff, University of Illinois at Urbana-Champaign

Opening Session–Data Acquisition and Data Management

Alphabet Soup: An Overview of Software Utilized for Chemistry Tracking
  Chris Skates, Electric Energy Inc.

Real-time Chemistry Data Acquisition and Archiving for Performance Improvement
  J. Barton Hoffman, General Physics, Performance Engineering Services

Benefits of Accessing Water Treatment Data via OSI PI at KCPL La Cygne Station
  Bruce L. Kelly, Performance Consulting Services, Inc.

Reducing Paperwork with Hand-held Data Acquisitions: A Work in Progress
  David R. Stamp, Nipsco,

5:00 PM  Reception and Vendor Display

Vendors in the industry will have displays of their latest products and services for participants to view during the reception.

Check the Web site:
www.conferences.uiuc.edu/eucw for a list of vendors.
Wednesday, May 11
7:30 AM Registration
8:00 AM Morning Session—Makeup Water Treatment

Ten Years Experience with Reverse Osmosis at Cayuga Station
Tom Bachey and Tracey Osborn, Cinergy

Producing Power Plant Makeup Using Membranes: The Newton Triple Membrane Water Plant
Harold W. Stansfield, Ameren Energy Generating

On-site Cleaning of Ion Exchange Resins and RO Membranes
William E. Bornak and Jeffrey Gaus, Recirculation Technologies Inc. (RTI)

Ion Exchange Performance, Monitoring, and Troubleshooting
Wayne E. Bernahl, W. Bernahl Enterprises

Real Time Monitoring of Biofilms in Power Plant Cooling Waters
George J. Licina, Structural Integrity Associates, Inc.

Atmospheric Emissions from Power Plant Cooling Towers
Wayne Micheletti, Wayne C. Micheletti, Inc.

Some Aspects of Helper Cooling Towers
K. Anthony Selby, Water Technology Consultants, Inc.

Lunch (provided)

Afternoon Session—Boiler Chemistry

Diverse Portfolios Require Station/Utility Chemists to Learn and Understand New Water Management Techniques
Christopher J. Howell, CROWN Solutions, Inc.

Water Chemistry Impact on Boiler Tube Failures
Mel J. Esmacher, GE Water & Process Technologies

Role of Phosphate in Boiler Waterwall-pitting Tube Failure Mechanism
David W. Reynolds, Dynegy, Inc.

The Impact of Condenser Performance, Feedwater Heating, and Steam Reheat on Steam Generator Efficiency
Bradley J. Buecker, Kansas City Power & Light Company

Boiler Waterside Inspections
Gary D. Bland, T H Standards

Nitrogen Gas Controlled Forced Cooling of Power Plant Production Equipment
Steven J. Barber, BJ Process & Pipeline Services, and Paul Trygstad, R.W. Beck

Breakout Sessions
-Boiler Feedwater Chemistry Issues, Warren Gilbert, discussion leader
-Chemical Cleaning Issues, Bradley J. Buecker, discussion leader
-Plant Level Environmental Issues, Prentiss Carter, discussion leader

Thursday, May 12
7:30 AM Registration
8:00 AM Closing Session—General Session

Synopsis of Breakout Sessions
Warren Gilbert, Bradley Buecker, Prentiss Carter

Total and Speciated Mercury in Coal-Combustion Matrices
Robert C. Brunette, Frontier Geosciences Inc.

Establishing and Maintaining Control Limits through the Use of Online Monitoring and Wet Chemistry
Nathan Moore, Analytical Products Group, Inc.

Panel - Modifying the Reducing Environments in Cycle Chemistry
Michael Adrihan, We Energies - Changing Reducing Agents and Installing ORP Monitoring – An Experience Paper
Glenn E. Rainer, Jr., Ameren Energy Generating Lab Services - The Elimination of Hydrazine at Ameren Energy Generating’s Newton Power Plant
Chris Skates, Electric Energy Inc. - Reducing Reduction by Addition: Establishing Ammonia Feed in a Hydrazine Only Feedwater System
Bradley J. Buecker, Kansas City Power & Light Company - A Comparison of AVT(O) Versus AVT (R) Feedwater Treatment

12:00 PM Adjourn

Presentation abstracts can be found on the Web site: www.conferences.uiuc.edu/eucw
Program Planning Committee

Michael Adrihan, We Energies
Al Aschoff, Consultant
Tom Bachey, Cinergy
Gary Bland, T H Standards
Brad Buecker, Kansas City Power & Light Company
Prentiss Carter, Ameren Edwards Plant
Chuck Curtis, Illinois State Water Survey
Gregg Finigan, Springfield City Water Light & Power
Warren Gilbert, Consultant
Greg Griffin, Consumers Energy
Russell Lane, Water Treatment Consultant
Ron Melton, Western Farmers Electric Coop
Bill Portz, Dynegy Midwest Generation
Ed Rainer, Ameren Energy Generating Company
Scott Reeves, Dominion Energy
J ohn Roark, Roark & Associates, Inc.
K. Anthony Selby, Water Technology Consultants LLC
Chris Skates, Electric Energy Inc.
Dave Stamp, Northern Indiana Public Service Company
Michael Statler, Associated Electric Cooperative, Inc.
Ronald Wine, Ronald D. Wine Consulting
Elaine Wolff, University of Illinois at Urbana-Champaign

Schedule - Registration begins Tuesday, May 10 at noon, followed by the Opening Session from 2:00-5:00 PM. A social hour from 5:30-8:00 PM gives the opportunity to talk with colleagues, vendors, and speakers. The workshop adjourns at noon on Thursday, May 12.

Vendor Displays – Each year the planning committee selects a topic to focus on during the Opening Reception and Vendor Displays. This year the topic is “Data Acquisition and Data Management.” Invitations have been extended to vendors that deal with this topic. If you have not been contacted and feel your company’s products fit into this theme, please contact Tony Selby at 303-679-0080 or e-mail tselby@qwest.net.

Cancellations – If you register and find you cannot attend, a refund less a $50 processing fee will be made if you notify the Conferences & Institutes office (217-333-2880) by May 3, 2005. No refunds will be issued after May 3. You may send someone in your place.

Lodging – Reservations should be made directly with the hotel. Be sure to mention that you are attending the "Electric Utility Chemistry Workshop," as a block of rooms has been reserved at special conference rates. Make your reservations early—after April 15, 2005, the rooms will be released on a first-come, first-served basis.

Hawthorn Suites
101 Trade Centre Drive
Champaign, IL 61820
217-398-3400
Conference Rate: Single or Double - $70.00

Submission of Questions - Registrants are strongly encouraged to submit questions for discussion by the speakers. Please send your questions to: Elaine Wolff, Conferences & Institutes, 302 East J ohn Street, Suite 202, Champaign, IL 61820, or e-mail: eucworkshop@ad.uiuc.edu.

Transportation – The Champaign (Willard) Airport offers daily flights to and from St. Louis (by American Connection), Chicago O’Hare (by American Eagle), Cincinnati (by Delta) and Detroit (by Northwest Airl ink). AMTRAK service is also available. Champaign-Urbana is located on Interstates 72, 74, and 57; 135 miles south of Chicago and 120 miles west of Indianapolis.

For more information contact:
Conferences & Institutes
University of Illinois at Urbana-Champaign
302 East J ohn Street, Suite 202
Champaign, Illinois 61820
Phone: 217-333-2880
Fax: 217-333-9561
E-mail: eucworkshop@ad.uiuc.edu

General Information

Registration – The full meeting registration fee includes all conference materials, the reference notebook, Tuesday reception, lunch on Wednesday, and morning and afternoon breaks. If received on or before April 25, the fee is $350. After April 25, the fee is $400.

Single day registration is also available. The registration fee of $200 includes meals or breaks served on the day you attend, speaker handouts for the day you attend, and a participant roster.

Payment in full is expected upon registration for the workshop. Please use the registration form as your invoice. Phone or fax registrations must have a credit card number. Payment by cash, check, or credit card must accompany all on-site registrations.

Location – All program sessions will be held at the Hawthorn Suites, 101 Trade Centre Drive, Champaign, Illinois 61820. Phone: 217-398-3400.
FOUR WAYS TO REGISTER

Online registration at www.conferences.uiuc.edu/eucw

Complete the form and mail to:
Cashiering Office
University of Illinois
162 Henry Administration Building
506 South Wright Street
Urbana, Illinois 61801

Fax: Conferences & Institutes 217-333-9561
Call: 217-333-2880 or toll free 877-455-2687

Note: Payment in full is expected upon registration for the workshop. Please use this registration form as your invoice.

For vendor exhibit registration, contact Conferences & Institutes at 217-333-2880 or e-mail eucworkshop@ad.uiuc.edu

REGISTRATION FORM

First Name

Last Name

Organization

Address

City State

Zip Country

E-mail

Business Phone

Fax Number

REGISTRATION FEES

☐ Full Conference Fee – on or before April 25: $350
☐ Full Conference Fee – after April 25: $400
☐ One Day Fee: $200
  Indicate which day you will attend: ☐ Tuesday ☐ Wednesday ☐ Thursday
☐ Notebook Only: $75 (each person with full registration receives a notebook)

METHOD OF PAYMENT

☐ Check enclosed (make payable to the University of Illinois)
☐ I prefer to pay by credit card:
  ☐ Visa ☐ Amex ☐ MasterCard ☐ Discover

Card #

V-Code (The V-Code is a 3-digit, non-embossed number printed in the signature box on the back of Visa, MasterCard, and Discover cards. On American Express, the 4-digit number is printed above the account number on the face of the card. The V-Code is recorded as an additional security precaution.)

Expiration Date

Signature
If the person on the label is no longer employed at your organization, please route this material to the replacement or department supervisor.