

Workshop Description

This workshop has been developed with the goal to provide an in-depth understanding of advances in conventional and emerging pollutants in wastewater treatment. The attendees are likely to be practitioners, utility managers/engineers, and researchers. The quality of the presentations and the expertise of the presenters will provide considerable knowledge value to the attendees. Therefore, the invited speakers are leading edge professionals who are actively advancing wastewater treatment for conventional pollutants such as nitrogen and phosphorus and micropollutants such as endocrine disruptors, nanoparticles, and specialty industrial and munition compounds.

Program Committee

Krishna R. Pagilla, Ph.D., P.E., Chair
Professor of Environmental Engineering
Illinois Institute of Technology

Joseph G. Cleary, P.E., BCEE
Principal
HydroQual, Inc.

James W. Patterson, Ph.D., BCEE
President
Patterson Environmental Consultants, Inc.

Cecil Lue-Hing, D.Sc., P.E., BCEE, NAE
President
Cecil Lue-Hing & Associates, Inc.

W. Wesley Eckenfelder, D.Sc., P.E., BCEE
Professor Emeritus
Vanderbilt University

Thomas E. Wilson, Ph.D., P.E., BCEE
AECOM
President
Thomas E. Wilson Environ. Engrs., LLC

Course Credits

20 PDHs

Conference Location

Union League Club of Chicago
65 West Jackson Boulevard
Chicago, Illinois 60604-3598
T: (312) 427-7800 F: (312) 427-2835

A block of rooms is reserved at the conference rate of \$159 per night. These rooms will be available through April 15, 2010 or until sold out.

Workshop 2010

Advanced Wastewater Treatment Technology: Conventional and Micropollutants

Dates:
April 27th - 29th, 2010

Conference and Hotel Location:
Union League Club, Downtown Chicago

Sponsored by:

Environmental Engineering Program
Illinois Institute of Technology

Co-Sponsors:



Metropolitan Water Reclamation District of Greater
Chicago



Illinois Water Environment Association



National Association of Clean Water Agencies



American Academy of Environmental Engineers

Monday: April 26, 2010

7:00-9:00 p.m. - Informal Reception: Registration and Materials Pick-up

Tuesday: April 27, 2010

8:00-8:30 a.m. - Registration and Materials Pick-up

8:30-9:30 a.m.
Plenary Session-Emerging Contaminants in the Environment
Rao Y. Surampalli, Ph.D., P.E.
Engineer Director
USEPA

9:30-10:30 a.m.
Biological Wastewater Treatment-Overview
Krishna R. Pagilla, Ph.D., P.E.
Illinois Institute of Technology

10:30-10:45 a.m. • Break

10:45-11:45 a.m.
Physical/Chemical Wastewater Treatment-Overview
Davis L. Ford, Ph.D., P.E.
Ford and Associates, Inc.

11:45-1:00 p.m. • Lunch (Provided)

1:00-2:00 p.m.
Biological Nitrogen Removal - Theory and Practice
W. Wesley Eckenfelder, D.Sc., P.E., BCEE
Vanderbilt University

2:00-3:00 p.m.
Phosphorus Removal - Theory and Practice
James Barnard, Ph.D., P.Eng.
Black & Veatch, Inc.

3:00 -3:15 p.m. • Break

3:15 -4:15 p.m.
Biological Selectors-Municipal and Industrial Applications
Glen Daigger, Ph.D., P.E.
CH2M-Hill

4:15-5:00 p.m.
High Strength Nitrogen Wastewater Treatment - A Case Study
Joseph G. Cleary, P.E., BCEE
Hydroqual, Inc.

5:30-7:00 p.m. • Sponsors' Reception

Wednesday: April 28, 2010

8:30-9:30 a.m.
Wastewater Sidestream Biological and P/C Treatment
Beverly Stinson, Ph.D., P.E.
AECOM

9:30 - 9:50 a.m.
Vacuum Distillation of Centrate for N Recovery
Morton Orentlicher
ThermoEnergy

9:50-10:45 a.m.
Anaerobic Biological Treatment
Richard Speece, Ph.D., P.E.
Vanderbilt University

10:45-11:00 a.m. • Break

11:00-12:00 noon
Clarification: Theory and Applications
Dave Kinnear, Ph.D., P.E.
HDR, Inc.

12:00-1:00 p.m. • Lunch (Provided)

1:00-1:45 p.m.
Membrane-Based Wastewater Treatment Systems
Glen Daigger, Ph.D., P.E.
CH2M-Hill

1:45-2:45 p.m.
Adsorptive Treatment Technologies: Theory and Applications (PAC & GAC)
Davis L. Ford, Ph.D., P.E.
Ford and Associates, Inc.

2:45 - 3:00 p.m.
Superoxygenation of Industrial Wastewater
Richard Speece, Ph.D., P.E.
Vanderbilt University

3:00-3:15 p.m. • Break

3:15-4:00 p.m.
Removal of Pharmaceuticals and Micropollutants from Wastewater: Proven and Emerging Technologies
Ed Helmig
Wyeth Pharmaceuticals

4:00-5:00 p.m.
Control of Metals: Conventional and Advanced Technologies
James W. Patterson, Ph.D., BCEE
Patterson Environmental Consultants, Inc.

Thursday: April 29, 2010

8:00-9:00 a.m.
Control of Nanoparticles in Wastewater
Ganesh Rajagopalan, Ph.D.
Kennedy/Jenks Consultants

9:00-10:00 a.m.
Conventional and Insensitive Munitions Wastewater Treatment
Stephen Maloney, Ph.D., P.E.
US Army Corps of Engrs. -CERL

10:00-10:15 a.m. • Break

10:15 - 11:00 a.m.
Micropollutants Accumulation on Biosolids: Impact on Residuals Management
Thomas Granato, Ph.D.
MWRD of Greater Chicago

11:00 a.m.-12:00 noon
Panel Discussion: Emerging Contaminants - Fate, Effects and Control
Selected Speakers
Moderator: Joseph G. Cleary, P.E., BCEE
Hydroqual, Inc.

12:00 noon • Adjourn Workshop

**AWTTCM Workshop
Workshop Registration Form**
please fill a separate form out for each person attending.

Name_____

Title_____

Company_____

Address_____

City/State/Zip_____

Phone/Fax_____

Email address_____

Workshop Registration Fees
(Includes Breakfast, Lunches, Reception, and Proceedings)

Advance Registration
(prior to 2/28/10).....\$550

Registration
(after 2/28/10 or until all seats are sold out.).....\$675

Payment Options
 Bill to my company - invoice will be sent upon registration
 Credit card payment - online registration available at www.iweasite.org
 Check payment enclosed - Payable to: Illinois Institute of Technology - AWTTCM Workshop

For further information, please contact:
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