

United States
Environmental Protection
Agency

Risk Reduction
Engineering Laboratory

Center for Environmental
Research Information (CERI)

Technology Transfer

Field Evaluations of Municipal Wastewater Treatment Technologies

Schenectady, NY—December 7-8, 1988
Charlotte, NC—January 9-10, 1989
Chicago, IL—January 12-13, 1989
Spokane, WA—January 23-24, 1989
San Francisco, CA—January 26-27, 1989

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Environmental Protection
Agency

Center for Environmental Research
Information
Cincinnati OH 45268

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CERI-88-58

- 9:30 a.m. **Ultra Violet Disinfection Technology**
O. Karl Scheible
Hydroqual, Inc.
Mahway, NJ
- 10:00 a.m. **Break**
- 10:30 a.m. **Field Study of In-Vessel Composting**
John Donovan
Camp, Dresser and McKee
Boston, MA
- 11:00 a.m. **Low-Energy Incineration**
John Donovan
- 11:45 a.m. **Lunch**
- 1:00 p.m. **European High Biomass Study**
Arthur J. Condren
- 1:45 p.m. **100% M/R Summary**
Bob A. Hegg
Process Applications, Inc.
Fort Collins, CO
- 2:30 p.m. **Sludge Production from POTWs**
Bob Hegg
- 3:00 p.m. **Question/Answer Session**

EPA WWT SEMINAR SERIES
c/o ERG, Inc.
6 Whittemore Street
Arlington, MA 02174

Place
Postage
Here

Background and Purpose

Advances in municipal wastewater treatment technology continue to develop at a dramatic pace, with several hundred Innovative and Alternative (I/A) projects now in operation across the country. Many studies have been undertaken by the U.S. Environmental Protection Agency to ascertain actual field-scale performance and capital and O&M costs of I/A technologies, as well as to document problems encountered with their design, construction, and operation. In addition, several important issues vital to effective performance of all Publically Owned Treatment Works (POTWs) have recently been addressed by the Agency. These include: major wastewater collection system problems, sludge production values, and toxics control. Specifically, this seminar series will:

—Provide actual full-scale experience data to improve the data base of *design engineers* and their client *municipalities* in properly considering alternative municipal wastewater collection and treatment systems and in performing accurate cost-effective analyses of these alternatives. This will increase the probability of optimum system choice.

—Provide *state regulatory officials* with the ability to impact ongoing and planned designs of I/A technologies by illustrating the problems encountered with *previous projects*. By *identifying these problems*, *design engineers* and *municipalities* can have greater certainty of the technologies' costs and design requirements.

--Identify problem technologies that have not performed as anticipated, necessitating modification and/or replacement (M/R) actions. The performance, design, and operation of these technologies will be discussed.

This seminar series will present information on several new technologies not covered in previous seminars, as well as newly developed design, performance, and operating data on some technologies that were.

The information presented in these seminars will be of major benefit to those involved in the evaluation, design, and/or approval of municipal wastewater systems and will be especially beneficial to those involved in I/A technology applications.

Registration

There is no registration fee and you may register for any one of the five seminars. We recommend, however, that you chose the seminar to be given closest to your EPA region since both regional and State personnel will be participating in the sessions. Attendance is limited so register early. A confirmation letter will be sent to all

registrants. For further information contact Ms. Karen Natsios, Seminar Coordinator, (617) 648-7870.

Hotel Information

Arrangements have been made for a block of rooms at each hotel where seminars are to be held. Special rates are available to seminar attendees. Make your reservations directly with the hotel and mention that you are attending the EPA seminar to receive the special guest room rate.

Seminar Locations and Dates

Ramada Inn
450 Nott Street
Schenectady, NY 12308
(518) 370-7151
December 7-8, 1988

Marriott City Center
100 West Trade Street
Charlotte, NC 28202
(704) 333-9000
January 9-10, 1989

The Palmer House
17 East Monroe Street
Chicago, IL 60603
(312) 726-7500
January 12-13, 1989

Sheraton
North 32 Spokane Falls Court
Spokane, WA 99201-0165
(509) 455-9600
January 23-24, 1989

Sir Francis Drake
Powell and Sutter Streets
San Francisco, CA 94012
(415) 392-7755
January 26-27, 1989

Seminar Program

First Day

- 7:30 a.m. **Registration**
- 8:20 a.m. **Welcome**
- 8:30 a.m. **Overview and Purpose**
James F. Kreissl
USEPA—Risk Reduction Engineering
Laboratory
Cincinnati, OH

- 8:45 a.m. **OMPC Activity Summary**
Peter Shanaghan
USEPA—Office of Municipal Pollution
Control
Washington, DC
- 9:00 a.m. **Local Case Study**
- 9:45 a.m. **Break**
- 10:15 a.m. **Sulfide Corrosion of Sewers**
Speaker to be Announced
- 10:45 a.m. **Rainfall-Induced Infiltration**
William F. Boyle
James M. Montgomery Consulting
Engineers
Pasadena, CA
- 11:15 a.m. **Sewer Exfiltration**
Jonathan Braswell
Engineering-Science
Fairfax, VA
- 11:45 a.m. **Lunch**
- 1:00 p.m. **Toxics in POTWs**
Jonathan Braswell
- 1:30 p.m. **Field Evaluation of the PACT Process**
Arthur J. Condren
James M. Montgomery Consulting
Engineers
Pasadena, CA
- 2:30 p.m. **Break**
- 3:00 p.m. **Field Evaluation of Intrachannel Clarifiers**
A. T. Wallace
University of Idaho
Moscow, ID
- 4:00 p.m. **Draft Tube Aeration Study**
William C. Boyle
- 4:45 p.m. **Question/Answer Session**

Second Day

- 8:00 a.m. **Constructed Wetlands**
Sherwood Reed
U.S. Army Corps of Engineers
Hanover, NH
- 8:30 a.m. **Updated Performance of Land Treatment Systems**
Sherwood Reed
- 9:00 a.m. **Alternative Sewers**
James F. Kreissl

FIELD EVALUATIONS OF MUNICIPAL WASTEWATER TREATMENT TECHNOLOGIES —U.S. Environmental Protection Agency—

For registering at the following seminars (check preference)

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Name and Title _____
Organization _____
Address _____
City, State, Zip Code _____
Telephone _____