

United States
Environmental Protection
Agency

Municipal Environmental
Research Laboratory (MERL)

Center for Environmental
Research Information (CERI)

Technology Transfer

New Municipal Wastewater Treatment Technology

New Orleans, LA—March 12-13, 1984
Orlando, FL—March 15-16, 1984
San Francisco, CA—April 2-3, 1984
Portland, OR—April 5-6, 1984
St. Louis, MO—April 30-May 1, 1984
Minneapolis, MN—May 3-4, 1984
Phoenix, AZ—May 14-15, 1984
Denver, CO—May 17-18, 1984
Boston, MA—June 7-8, 1984
Albany, NY—June 18-19, 1984
Baltimore, MD—June 21-22, 1984

655R84002

United States
Environmental Protection
Agency

Center for Environmental Research
Information
Cincinnati OH 45268

Official Business
Penalty for Private Use \$300

BULK RATE
U.S. POSTAGE
PAID
Cincinnati, Ohio
Permit No. G35

- 3:15 p.m. **Small Diameter Gravity Sewers**
Richard Otis
- 4:15 p.m. **Secondary Clarification and In-Channel
Clarification in an Oxidation Ditch**
Robert P. G. Bowker
J. M. Smith & Assoc.
Cincinnati, OH
- 5:00 p.m. **Adjourn**
- Second Day**
- 8:30 a.m. **Fine Bubble Diffusers**
Daniel H. Houck
D. H. Houck Assoc., Inc.
Silver Spring, MD
- 9:30 a.m. **Biological Phosphorus Removal**
Dr. H. David Stensel
University of Utah
Salt Lake City, UT
- 10:30 a.m. **Break**
- 10:45 a.m. **Sequencing Batch Reactors**
Dr. Robert Irvine
University of Notre Dame
Notre Dame, IN
- 11:45 a.m. **Lunch**
- 1:00 p.m. **Instrumentation Testing Institute**
Richard Sullivan
APWA Research Foundation
Chicago, IL
- 2:00 p.m. **Captor**
Daniel Houck
- 3:00 p.m. **Break**
- 3:15 p.m. **Biological Aerated Filters**
Dr. H. David Stensel
- 4:15 p.m. **Rotating Biological Contactors**
Dr. L. Michael Saunders
Georgia Institute of Technology
Atlanta, GA
- 5:15 p.m. **Adjourn**

U.S. GOVERNMENT PRINTING OFFICE: 1984-759-015/7260

CERI-84-4

EPA WWT SEMINAR SERIES
c/o Dynamac Corp.
P.O. Box 2198
Kensington, MD 20895

Place
Postage
Here

Background and Purpose

The Clean Water Act of 1977, as amended, encourages the development and implementation of "Innovative and Alternative" technologies and improved management and operation of wastewater and sludge collection, treatment, and disposal systems. Special emphasis is given to technologies that reduce costs, conserve or recover energy, reclaim/reuse water, recycle wastewater constituents, or improve operational reliability or improve toxics management.

Since 1979, more than 25 Technology Transfer seminars covering advances in municipal wastewater treatment technology have been conducted across the country. Developments in this field continue at a dramatic pace.

This new seminar series is being conducted in cooperation with several State environmental agencies. It will present information on several new technologies not covered in previous seminars as well as newly developed design, performance, and operating data on some of those technologies that were presented previously.

These seminars are intended primarily for those involved in the design and/or approval of municipal wastewater treatment systems and will be especially beneficial to those involved in evaluating "Innovative and Alternative" systems.

Registration and Hotel Information

There is no registration fee and you may register for any one of the eleven seminars. We recommend, however, that you choose the seminar to be given in your EPA region since both regional and State personnel will be participating in the sessions. Because attendance is limited we request that you register early and indicate on the registration form three choices in order of preference (1st, 2nd, 3rd). For further information, contact Ms. Sheri Marshall, Seminar Coordinator, (301) 468-2500.

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. Reservations should be made directly with the hotel and you must state that you are attending the EPA seminar to receive the special guest room rate.

Seminar Locations and Dates

1. New Orleans, LA
Monteleone Hotel
214 Rue Royale
March 12-13, 1984
(504) 523-3341
2. Orlando, FL
Holiday Inn
6515 International Drive
March 15-16, 1984
(305) 351-3500
3. San Francisco, CA
Westin Miyako
1625 Post Street
April 2-3, 1984
(415) 922-3200
4. Portland, OR
Portland Marriott
1401 S.W. Front Avenue
April 5-6, 1984
(503) 226-4000
5. St. Louis, MO
Sheraton - West Port Inn
191 West Port Plaza
April 30-May 1, 1984
(314) 878-1500
6. Minneapolis, MN
Hyatt Regency
1300 Nicollet Mall
May 3-4, 1984
(612) 370-1234
7. Phoenix, AZ
Hotel Westcourt
10220 N. Metro Parkway East
May 14-15, 1984
(602) 997-5900
8. Denver, CO
Brown Palace
321 17th Street
May 17-18, 1984
(303) 297-3111
9. Boston, MA
Copley Plaza
138 St. James Avenue
June 7-8, 1984
(617) 267-5300

10. Albany, NY
Albany Hilton
State and Lodge Streets
June 18-19, 1984
(518) 462-6611
11. Baltimore, MD
Baltimore Hilton
101 W. Fayette Street
June 21-22, 1984
(301) 752-1100

SEMINAR PROGRAM

First Day

- 7:30 a.m. Registration**
- 8:30 a.m. Welcome**
- 8:45 a.m. Purpose**
- 9:15 a.m. National I/A Program Summary**
EPA-Office of Water Program Operations
Washington, DC
- EPA-Municipal Environmental Research
Laboratory
Cincinnati, OH
- 10:15 a.m. Break**
- 10:30 a.m. Applied Regional Research Relating to I/A Technology**
- 11:00 a.m. Land Treatment**
Dr. A. T. Wallace
University of Idaho
Moscow, ID
- 11:45 a.m. Lunch**
- 1:00 p.m. Large Soil Absorption Systems**
Richard Otis
RSE, Inc.
Madison, WI
- 2:00 p.m. Vacuum-Assisted Drying Beds**
A. T. Wallace
- 3:00 p.m. Break**

NEW MUNICIPAL WASTEWATER TREATMENT TECHNOLOGY

—U.S. Environmental Protection Agency—

For registering at one of the following seminars (check 1st, 2nd, 3rd preference).

- New Orleans, LA—March 12-13, 1984
 Orlando, FL—March 15-16, 1984
 San Francisco, CA—April 2-3, 1984
 Portland, OR—April 5-6, 1984
 St. Louis, MO—April 30-May 1, 1984
 Minneapolis, MN—May 3-4, 1984
- Phoenix, AZ—May 14-15, 1984
 Denver, CO—May 17-18, 1984
 Boston, MA—June 7-8, 1984
 Albany, NY—June 18-19, 1984
 Baltimore, MD—June 21-22, 1984

Name and Title _____

Organization _____

Address _____

City, State, Zip Code _____

Telephone _____