

United States
Environmental Protection
Agency

Water Engineering
Research Laboratory (WERL)

Center for Environmental
Research Information (CERI)

Research and Development

Field Evaluations of I/A Technologies

St. Louis, MO—August 19-20, 1986
Hartford, CT—September 15-16, 1986
Norfolk, VA—September 18-19, 1986
Albuquerque, NM—September 22-23, 1986
Salt Lake City, UT—September 25-26, 1986

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United States
Environmental Protection
Agency

Center for Environmental Research
Information
Cincinnati OH 45268

Official Business
Penalty for Private Use

Second Day

- 8:30 a.m. **Technology Evaluations**
— **Biological Phosphorus Removal**
— **Sludge Composting**
— **Trickling Filter Solids Contact**
Arthur H. Benedict
Brown and Caldwell Consulting
Engineers
Walnut Creek, CA
- 10:00 a.m. **Break**
- 10:30 a.m. **Technology Evaluations**
— **UV Disinfection**
— **Vacuum Assisted Sludge Drying Beds**
— **Sequencing Batch Reactors**
Arthur J. Condren
- 12:00 noon **Lunch**
- 1:00 p.m. **Counter-Current Aeration**
**Autothermal Thermophilic Aerobic
Digestion**
Kevin J. Deeny
Roy F. Weston
West Chester, PA
- 2:00 p.m. **Phase Isolation Ditches**
Arthur H. Benedict
- 2:30 p.m. **Biological Aerated Filter**
Arthur J. Condren
- 3:00 p.m. **In-Channel Aeration**
**Hydrograph Controlled Release
Lagoons**
D. Donald Deemer
ERM—Southeast
Marietta, GA
- 4:00 p.m. **Question/Answer Session**
- 4:30 p.m. **Adjourn**

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

BULK RATE
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CERI-86-16

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Background and Purpose

Since 1979, more than 35 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.

With more than 400 Innovative and Alternative (I/A) projects in operation, several studies have been undertaken by the U.S. Environmental Protection Agency to evaluate the field-scale performance of I/A technologies. These studies are intended to ascertain performance, capital and operation and maintenance costs, and problems encountered with the design, construction, and operation of these technologies. Specifically, these studies and this seminar series will:

- Provide actual full-scale experience data to improve the data bases of *design engineers* and their client *municipalities* in properly considering alternative municipal wastewater treatment systems and in performing an accurate cost-effective analysis of those alternatives. Since inadequate performance, operation, and cost data existed for many of the I/A technologies originally chosen, the information provided by this seminar series will permit more accurate cost-effective analysis and increase the probability of a more optimum treatment system choice.
- Provide *state regulatory officials* with the ability to impact ongoing or planned designs of these technologies by illustrating the problems encountered with initial I/A technology projects. By identifying these problems, *design engineers* and *municipalities* can have greater certainty of the I/A technologies' costs and design requirements.
- Identify problem technologies that have not performed as anticipated, necessitating modification and/or replacement (M/R) actions. Not only will the performance, design, and operation of these technologies be discussed, a suggested procedure for *municipalities* to utilize in identifying the causes of poor plant performance prior to initiation of 100% M/R actions will be presented.

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 of those technologies that were.

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

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. Jean McNish, Seminar Coordinator, (310) 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. Omni International
St. Louis Union Station
1820 Market Street
St. Louis, MO 63103
August 19-20, 1986
(314) 241-6664
2. Sheraton
Trumble Street at Civic Center Plaza
Hartford, CT 06103
September 15-16, 1986
(203) 728-5151
3. Omni International
777 Waterside Drive
Norfolk, VA 23510
September 18-19, 1986
(804) 622-6664
4. Hilton
1901 University Blvd., N.E.
Albuquerque, NM 87102
September 22-23, 1986
(505) 884-2500
5. Hilton
150 West 5th Street
Salt Lake City, UT 84101
September 25-26, 1986
(801) 532-3344

SEMINAR PROGRAM

First Day

- 7:30 a.m. Registration**
- 8:30 a.m. Welcome/Purpose**
- 9:00 a.m. Overview**
Richard Thomas
USEPA—Office of Municipal Pollution Control
Washington, DC
- James Kreissl
USEPA—Water Engineering Research Laboratory, Cincinnati, OH
- 9:45 a.m. Break**
- 10:15 a.m. Local I/A Case Study**
- 10:45 a.m. Application of CCP Approach to 100% M/R**
Arthur J. Condren
J. M. Montgomery Consulting Engineers
Pasadena, CA
- 11:45 a.m. Lunch**
- 1:00 p.m. Four Potential 100% M/R Case Studies**
Arthur J. Condren
- 2:30 p.m. Break**
- 3:00 p.m. Improved Design Concepts for Community Mound Systems**
Richard J. Otis
RSE Group/Ayres
Madison, WI
- 3:45 p.m. Preliminary Assessments of Draft Tube Aeration and Microscreening of Lagoon Effluents**
K. Fred Updegraff
Gannett Fleming Environmental Engineers
Harrisburg, PA
- 4:45 p.m. Question/Answer Session**
- 5:00 p.m. Adjourn**

FIELD EVALUATIONS OF I/A TECHNOLOGIES —U.S. Environmental Protection Agency—

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

- St. Louis, MO—August 19-20, 1986
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 Albuquerque, NM—September 22-23, 1986
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Name and Title _____

Organization _____

Address _____

City, State, Zip Code _____

Telephone _____