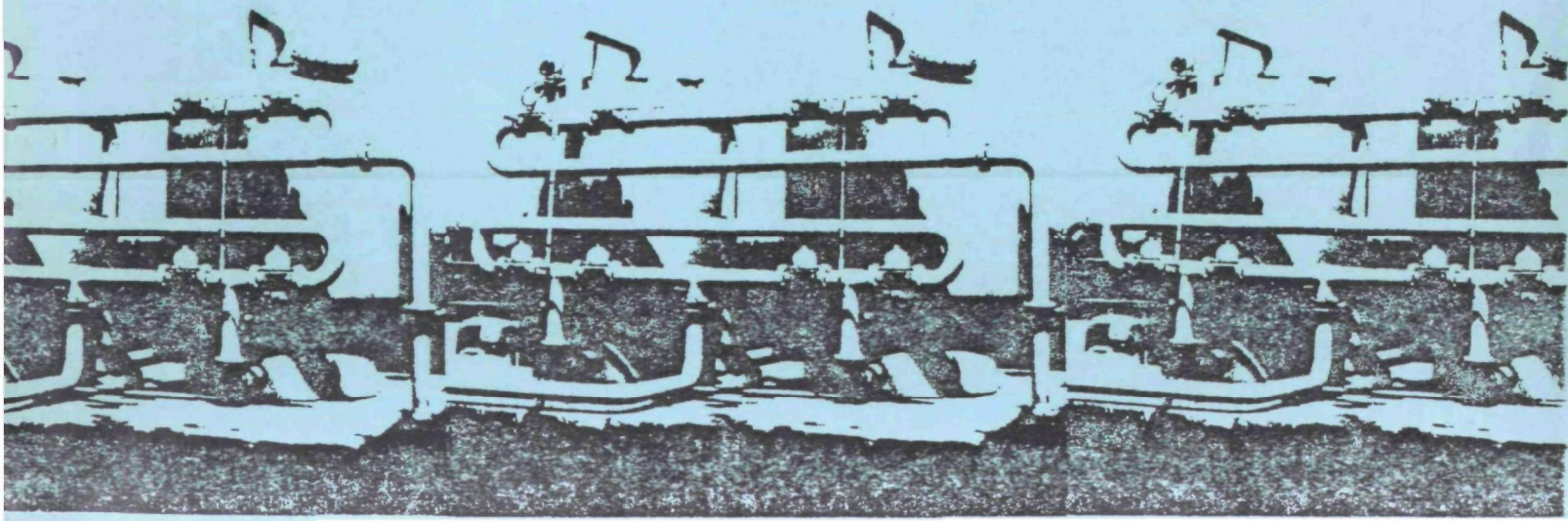




INTERNATIONAL SEMINAR ON CONTROL OF NUTRIENTS

**Agenda
Attendees List**

September 9, 10, 11, 1980



AGENDA FOR
INTERNATIONAL SEMINAR
ON

CONTROL OF NUTRIENTS IN WASTEWATER EFFLUENTS

SEPTEMBER 8, 1980

7:30 to 9:00 p.m. RECEPTION/EARLY REGISTRATION

SEPTEMBER 9, 1980

PHOSPHORUS CONTROL TECHNOLOGY

7:30 to 9:00 a.m. REGISTRATION

9:00 to 9:15 WELCOME AND INTRODUCTION TO PROGRAM
(EPA Regional Representative or local municipal authority)
and Edwin Barth, Chief Biological Treatment Section,
Wastewater Treatment Division, U.S. EPA/MERL

9:15 to 10:05 NUTRIENT CONTROL TECHNOLOGY - THE CANADIAN
CONNECTION

Speaker: Dr. Norbert W. Schmidtke, Director Wastewater
Technology Centre
Environmental Protection Service
Environment Canada
Burlington, Ontario, Canada

10:05 to 10:20 COFFEE BREAK

10:20 to 11:10 PHOSPHORUS REMOVAL IN LOWER GREAT LAKES
MUNICIPAL TREATMENT PLANTS

Speaker: Dr. Joseph DePinto
Department of Civil and Environmental
Engineering
Clarkson College, Potsdam, New York

11:10 to 12:00 OPERATIONAL EXPERIENCE AT GLADSTONE, MICHIGAN
UTILIZING ROTATING BIOLOGICAL CONTRACTORS
FOR BOD, PHOSPHORUS AND AMMONIA REMOVAL

Speaker: Mr. Willard Lee Morley, Superintendent
Water and Wastewater Treatment
City of Gladstone, Michigan

12:00 to 1:00 LUNCH

1:00 to 1:50

CONTROL TECHNOLOGY FOR NUTRIENTS IN
MUNICIPAL WASTEWATER TREATMENT IN SWEDEN

Speaker: Dr. Bengt Gunnar Hultman
Swedish Water and Wastewater
Works Association
Stockholm, Sweden

1:50 to 2:40

RESEARCH ON PHOSPHORUS CONTROL IN JAPAN

Speaker: Mr. Tokuji Annaka
Department of Sewage and Serage
Purification
Ministry of Construction
Japan

2:40 to 3:30

ECONOMICAL AND EFFICIENT PHOSPHORUS
REMOVAL AT INDUSTRIAL-DOMESTIC WASTEWATER
PLANT

Speaker: Mrs. Doris Van Dam, Superintendent,
Wastewater Treatment Plant
Grand Haven, Michigan

3:30 to 3:45

COFFEE BREAK

3:45 to 4:35

FULL-SCALE BIOLOGICAL PHOSPHORUS REMOVAL
USING THE PHOSTRIP PROCESS

Speaker: Mr. Carl J. Heim, Assistant Staff Engineer
Union Carbide Corporation
Linde Division
Tonawanda, New York

4:35 to 5:00

DISCUSSION ON PHOSPHORUS CONTROL TECHNOLOGY

*Dave Kritchen Air Products
Largo Florida*

SEPTEMBER 10, 1980

NITROGEN CONTROL TECHNOLOGY

8:00 to 8:50 a.m. EMERGING STRATEGY FOR NITROGEN CONTROL
BASED ON RECEIVING WATER QUALITY CON-
SIDERATIONS

Speaker: Dr. Willi Gujer
Swiss Federal Institute for Water
Pollution Control
Switzerland

8:50 to 9:40 FULL-SCALE CARBON OXIDATION/NITRIFICATION
STUDIES AT THE METROPOLITAN SANITARY
DISTRICT OF GREATER CHICAGO

Speaker: Dr. Cecil Lue-Hing, Laboratory Director
Metropolitan Sanitary District of
Greater Chicago
Chicago, Illinois

9:40 to 10:30 PHOSPHORUS REMOVAL WITH IRON SALTS AT
BLUE PLAINS

Speaker: Mr. Ed Jones, Chief Process Engineer
Wastewater Treatment Plant
Washington, D.C.

10:30 to 10:45 COFFEE BREAK

10:45 to 11:45 NITRIFICATION AT LIMA, OHIO

Speaker: Mr. Felix Sampayo
Jones and Henry Engineers, Ltd.
Toledo, Ohio

11:45 to 1:30 p.m. LUNCH

Speaker: Dr. Henry Heimlich, Professor of
Advanced Clinical Studies
Xavier University
Cincinnati, Ohio
Author of The Heimlich Maneuver

1:30 to 2:20 OPERATING EXPERIENCE WITH A 30 MGD TWO-STAGE
BIOLOGICAL NITRIFICATION PLANT

Speaker: Mr. Earl W. Knight
Assistant Chief Engineer
Metropolitan Sanitary District of
Greater Chicago
Chicago, Illinois

2:20 to 3:10

**NITRIFICATION-DENITRIFICATION IN FULL-SCALE
TREATMENT PLANTS IN AUSTRIA**

Speaker: Dr. Norbert F. Matsche
Assistant Professor
Technical University, Vienna, Austria

3:10 to 3:25

COFFEE BREAK

3:25 to 4:15

**SINGLE STAGE NITRIFICATION-DENITRIFICATION
AT OWEGO, NEW YORK**

Speaker: Mr. Donald E. Schwinn, P.E.
Stearns and Wheler
Civil and Sanitary Engineers
Cazenovia, New York

4:15 to 5:00

DISCUSSION ON NITROGEN CONTROL TECHNOLOGY

SEPTEMBER 11, 1980

COMBINED PHOSPHORUS AND NITROGEN CONTROL TECHNOLOGY

8:15 to 9:05 a.m. DESIGN AND OPERATION OF NITROGEN CONTROL FACILITIES AT TAMPA AND THE NSSD

Speaker: Mr. Thomas E. Wilson, Principal Engineer
Greely and Hansen
Chicago, Illinois

9:05 to 9:55 PERFORMANCE OF FIRST U.S. FULL-SCALE BARDENPHO FACILITY

Speaker: Dr. H. David Stensel, Manager
Sanitary Engineering Technology
Development, EIMCO PMD
Salt Lake City, Utah

9:55 to 10:10 COFFEE BREAK

10:10 to 11:00 DENITRIFICATION IN CONTINUOUS-FLOW SEQUENTIALLY AERATED ACTIVATED SLUDGE SYSTEMS AND BATCH PROCESSES

Speakers: Dr. Mervyn C. Goronszy
Senior Investigating Engineer
State Pollution Control Commission
Sidney, Australia ;

and

Dr. Robert L. Irvine, P.E.
Department of Civil Engineering
University of Notre Dame
Notre Dame, Indiana

11:00 to 12:00 NITROGEN AND PHOSPHORUS REDUCTION FROM LAND APPLICATIONS AT DISNEY WORLD

Speaker: Mr. Ted W. McKim , Sanitary Engineer
Reedy Creek Utilities Co., Inc.
Walt Disney World
Lake Buena Vista, Florida

12:00 to 1:00 p.m. LUNCH

1:00 to 1:50 EXPERIENCE WITH AMMONIA REMOVAL BY SELECTIVE ION EXCHANGE AND CLOSED-CYCLE AIR STRIPPING REGENERANT REMOVAL

Speaker: Mr. L. Gene Shur, Vice President and
Director
CH₂M-Hill Consultants
Corvallis, Oregon

1:50 to 2:40

**NITRIFICATION AND PHOSPHORUS REMOVAL IN A
35 MGD ADVANCED WASTE TREATMENT PLANT AT
ROANOKE, VIRGINIA**

Speakers: Mr. Donald E. Eckmann
Alvord, Burdick, and Howson Engineers
Chicago, Illinois;

and

Mr. Harold S. Zimmerman, Plant Manager
Waste Treatment Plant
Roanoke, Virginia

2:40 to 3:30

**FULL-SCALE EXPERIENCE WITH TWO-STAGE
NITRIFICATION AND PHOSPHORUS REMOVAL**

Speaker: Mr. Winfield A. Peterson, Chief
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Metcalf and Eddy, Inc.
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