



Newsletter

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PRESIDENT'S CORNER

One of the most important responsibilities of the Association of Environmental Engineering Professors is the educational programs devoted to protecting the environment of our nation, Article 2.03 of our bylaws state:

"The objectives of the Association shall be to develop long-range plans concerning education in the fields of sanitary engineering, water and air resources, environmental health engineering and related fields, and to implement these plans by working with professional and scientific societies and state and federal agencies."

In keeping with our goals, the Board of Directors of AEEP authorized the fourth National Conference on Environmental Engineering Education and assigned responsibility for this conference to the Education Committee. It is planned that the conference will be held during Spring or Summer of 1980 at the University of Texas Austin.

To provide perspective for the Fourth Conference let us make a brief visit to Cambridge, Massachusetts during the summer of 1960. We should note that twenty years will have passed since the first National Meeting held at Harvard University. Thomas R. Camp on June 27, 1960, stated in his introductory remarks at that meeting:

"The objectives of this conference are twofold: first, to study the present and future educational needs of sanitary engineers in order to develop graduate curricula and general course contents and objectives to meet these needs; and second, to explore the advisability, the feasibility, and methods of accrediting master's degree programs in sanitary engineering."

The 1960 conference closed with a series of resolutions with the following being directly concerned with education programs:

Resolution on Accreditation

The following resolutions were approved unanimously by the conferees:

1. A.S.E.I.B. should endorse the accreditation by E.C.P.D. of graduate programs in sanitary engineering, including other engineering programs in sanitary engineering related to environmental health, beginning with Master's programs.
2. To be accredited in sanitary engineering, including other engineering programs related to environmental health at the graduate level, shall not have to offer instruction in more than one of the fields considered by the conference.
3. A resolution favoring these positions should be transmitted to E.C.P.D.
4. The resolutions and recommendations of this conference should be submitted to E.C.P.D. as guidelines or general criteria for the accreditation of suitable programs.

Resolution on Length of Study for M.S. Degree

It was resolved that the time length of graduate instruction or continuation study for the first degree in sanitary engineering and environmental health be one calendar year rather than academic year.

Resolution on Thesis Requirement for M.S. Degree

It was resolved that each institution shall be free to require the preparation of a thesis for the first degree in sanitary engineering and environmental health.

Resolution on Common Core Courses

It was resolved that for the graduate programs in Water Resources Engineering, Air Resources Engineering and Environmental Health, the following courses would constitute a common core for each program: Chemistry, Microbiology, Radiological Hygiene, Statistics & Epidemiology.

There is no doubt that this conference and the following two at Northwestern and Drexel Universities were important in the development of long range educational policy and programs in our field. The influence of some of the 1960 resolutions are apparent today in our educational programs. These programs, however, are and must be dynamic in nature, ever-changing to meet the needs and challenges of the future. The purpose of the proposed 1980 Conference will be to provide guidance for the educational programs of the future.

The AEEP Meeting on Tuesday evening at Purdue this year will be devoted to the 1980 Conference on Environmental Engineering Education. I hope to see you all there so that we can begin to plan our future together.

Bruce Hanes

Tufts University

AEEP WORKSHOP AT PURDUE CONFERENCE

The Association of Environmental Engineering Professors is sponsoring a one-day workshop on "Land Treatment of Wastes: Status and Use of Technology" to be held in conjunction with the 1978 Purdue Industrial Waste Conference. The workshop registration fee is \$10 for AEEP Members and \$35 for non-members. There is no fee for enrolled graduate students. The Workshop will be held Monday, May 8, 1978, from 8:30 am to 4:30 pm in room 214 of the Stewart Center. Total registration will be limited to about 150. Featured speakers include:

Robert K. Bastain, U.S. E.P.A.

Herman Bouwer, Water Cons. Lab., Agricultural Research Service

Thomas D. Hinesly, Univ. of Illinois

William J. Jewell, Cornell Univ.

Raymond C. Loehr, Cornell Univ.

Allen R. Overman, Univ. of Florida

Charles Pound, Metcalf and Eddy, Inc.

Sherwood W. Reed, U.S.A.C.E.

George Tchobanoglous, Univ. of Calif.—Davis

Richard E. Thomas, U.S.E.P.A.

Registration and requests for program and additional information should be addressed to :

Dr. William J. Jewell, Workshop Organizer

202 Riley-Robb Hall

Cornell University

Ithaca, NY 14853

PUBLICATION OF THESIS TITLES

As a service to the AEEP Membership, the Board of Directors have decided to publish the titles of theses completed each academic year by June 30. Only those lists submitted by the membership will be included in the listing. The next directory will appear early next fall for the 1977-78 work.

Time interval: July 1, 1977 to June 30, 1978

Classification of Titles:

Air Pollution

Agricultural Waste Management

Instrumental Methods of Analysis

Industrial Waste Treatment

Land Treatment

Non Point Pollution

Rivers, Estuaries and Lakes

Solid Wastes

Water and Wastewater Treatment

Water Management.

You may also use other classifications if there are a sufficient number of titles.

Format: "Title of Paper," Name of Author (Ph.D. or M.S.), X pp., Month Year, Name of University (Name of Faculty Advisor).

Comments: Since the availability of documents vary, persons interested in a specific publication will be asked to contact the Faculty Advisor directly.

Deadline: Submit by August 14, 1978 to:

J.F. Judkins, Jr., and J.M. Morgan

Co-Editors

AEEP Newsletter

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WELCOME TO NEW AEEP MEMBERS

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Medford, Massachusetts 02155

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Assistant Professor

Civil and Environmental Engineering

Clarkson College of Technology

Potsdam, New Jersey 13676

ACADEMIC MARKET PLACE

THE UNIVERSITY OF AKRON

The Department of Civil Engineering is seeking to employ an assistant professor in the engineering management and/or environmental engineering areas. Applicants for this position should be United States citizens, must hold a B.S. degree in civil engineering, and must have a Ph.D.

The University of Akron, a state-supported institution, is the third largest university in Ohio with an enrollment of 24,000. The Civil Engineering Department has approximately 250 undergraduate, 45 masters, and 15 doctoral students. Interested persons should submit their resume to:

Dr. Andrew L. Simon
Professor and Head
Department of Civil Engineering
The University of Akron
Akron, Ohio 44325
Phone: 216-275-7286

CLARKSON COLLEGE

There are five faculty positions presently available in the Department of Civil and Environmental Engineering at Clarkson College of Technology. These positions are to be filled in the following areas:

Environmental Engineering
Geotechnical Engineering
Structural Engineering and Mechanics
Transportation Engineering
Water Resources Engineering.

Interested persons should submit a resume with references to:

Dr. Norbert L. Ackerman, Chairman
Department of Civil and Environmental Engineering
Clarkson College of Technology
Potsdam, NY 13676

ILLINOIS INSTITUTE OF TECHNOLOGY

The Pritzker Department of Environmental Engineering at the Illinois Institute of Technology has a tenure-track position open at the Assistant Professor level for the Fall Semester 1978 for an ecologist who specializes in systems analysis of the aquatic environment. Experience in modeling and the ability to work in a multidisciplinary program of scientists and engineers are necessary. A Ph.D. is required and post-doctoral experience is preferred but not required. The successful applicant will teach graduate courses in aquatic ecology and is expected to develop a strong research program and to advise graduate students in thesis research. Interested persons should send their curriculum vitae, and a short statement of research and teaching interests to:

Dr. James W. Patterson, Chairman
Pritzker Department of Environmental
Engineering
Illinois Institute of Technology
Chicago, IL 60616

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UNIVERSITY OF ILLINOIS AT URBANA- CHAMPAIGN

The Department of Civil Engineering, University of Illinois at Urbana-Champaign, invites applications for a potential faculty position in the area of environmental engineering. The position will be available for the fall semester, 1978. Applicants should have advanced training in the area of process control as it relates to the control of gaseous pollutants. Candidates holding a doctoral degree in Mechanical, Civil, Environmental, or Chemical Engineering will be considered.

Duties will include teaching undergraduate courses and graduate courses on the control of air pollution. The successful candidate will be expected to develop and supervise research in his areas of interest and guide graduate students in these areas. Salary is open and rank will be in accordance with qualifications and experience. To receive full consideration, applications must be received prior to April 30, 1978.

Resumes should be addressed to:

Dr. Jon C. Liebman, Head
Department of Civil Engineering
University of Illinois at Urbana-Champaign
Urbana, Illinois 61801
Phone: 271-333-6966

WAYNE STATE UNIVERSITY

Three faculty positions at ranks through full Professor are available depending upon qualifications. Candidates should possess background in one or more of the following: waste water treatment, industrial waste treatment, water quality, water resources and solid waste disposal. Ph.D. and at least one degree in Civil Engineering required. B.S.C.E. preferred. Undergraduate and graduate teaching. Development of externally-funded research program essential. Interested persons send resume to:

Dr. John H. Lamb, Chairman
Department of Civil Engineering
Wayne State University
667 Merrick
Detroit, Michigan 48202

ILLINOIS INSTITUTE OF TECHNOLOGY

The Pritzker Department of Environmental Engineering at the Illinois Institute of Technology has a tenure-track position open at the Assistant Professor level for Fall Semester 1978 for an environmental engineer specializing in water and wastewater treatment. A Ph.D. is required. The successful applicant will teach graduate and undergraduate environmental engineering courses and is expected to participate in and assist in developing the program's research. Interested persons should send their curriculum vitae and a short statement of research and teaching interests to:

Dr. James W. Patterson, Chairman
Pritzker Department of Environmental Engineering
Illinois Institute of Technology
Chicago, IL 60616

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UNDERGRADUATE REGISTER AVAILABLE

Copies of the *Register of Undergraduate Environmental Engineering Programs* are now available at a cost of \$6.00 each postpaid. Order from:

Dr. D.B. Aulenbach
Department of Chemical and Environmental Engineering
Rensselaer Polytechnic Institute
Troy, New York 12181.

GORDON RESEARCH CONFERENCES

Summer 1978

The Gordon Research Conferences for the summer of 1978 will be held in New Hampshire and California. The Conferences were established to stimulate research in universities, research foundations, and industrial laboratories. This purpose is achieved by an informal type of meeting consisting of scheduled speakers and discussion groups. Sufficient time is available to stimulate information discussion among the members of each Conference. Meetings are held in the morning and in the evenings, Monday through Friday, with the exception of Friday evening. The afternoons are available for recreation, reading, or participation in discussion groups, as the individual desires. This type of meeting is a valuable means of disseminating information and ideas to an extent that could not be achieved through the usual channels of publication and presentation at scientific meetings. In addition, scientists in related fields become acquainted and valuable associations are formed that often result in collaboration and cooperative efforts among laboratories.

It is hoped that each Conference will extend the frontiers of science by fostering a free and informal exchange of ideas among persons actively interested in the subject under discussion. The purpose of the program is to bring experts up to date on the latest developments, to analyze the significance of these developments and to provoke suggestions concerning the underlying theories and profitable methods of approach for scientific research. The review of known information is not desired.

In order to protect individual rights and to promote discussion, it is an established requirement of each Conference that no information presented is to be used without specific authorization of the individual making the contribution whether in formal presentation or in discussion. Scientific publications are not prepared as emanating from the Conferences. The recording of lectures by tapes, etc. and the photography of slides are prohibited.

Applications must be submitted in duplicate on the standard application form which may be obtained from the office of the Director. A registration card will be mailed to those selected. Advance registration by mail for each conference is required and is completed upon receipt of the card and the deposit of \$30.00.

The complete program for the 1978 Gordon Research Conference is published in "Science," March 10, 1978. Reprints are available on request.

Dr. Alexander M. Cruickshank, Director
Gordon Research Conferences
Pastore Chemical Laboratory
University of Rhode Island
Kingston, Rhode Island 02881
(401) 783-4011

Mail for the office of the Director from June 12 to August 25, 1978, should be addressed to:

Dr. Alexander M. Cruickshank, Director
Gordon Research Conference
Colby-Sawyer College
New London, New Hampshire 03257
(603) 526-2870

Conference Fees (Five-day conference, registration, room, meals, service):

New Hampshire \$160.00
California \$185.00

CONFERENCE ON WATER SUPPLY ENGINEERING: QUALITY, TREATMENT, MANAGEMENT

The Department of Environmental Sciences and Engineering of the University of North Carolina at Chapel Hill, in cooperation with the Continuing Education Program of the UNC School of Public Health, is sponsoring a three-day short course on "Water Supply Engineering: Quality, Treatment, Management," on May 22-24, 1978. The course will provide a critical review of recent developments in the water supply field.

The course is divided into three components dealing with water quality (turbidity, viruses, organics, metals, and the Safe Drinking Water Act), water treatment (coagulation and flocculation, adsorption, disinfection, chemical oxidation, and plant-scale experiences in upgrading treatment facilities), and water supply management (demand, regionalization, pricing, and distribution). The course will be presented at an advanced level for individuals actively engaged in the water supply field—those conducting research and those responsible for the design of new, and modifications of existing water supply system.

The course is specifically intended for consultants, municipal engineers, regulatory agency personnel, and researchers at academic, industrial, consulting, and governmental institutions. The registration fee for the course is \$80.

For more information, correspondence should be addressed to Dr. Phillip C. Singer, Department of Environmental Sciences and Engineering, University of North Carolina, School of Public Health 201H, Chapel Hill, NC 27514.

INTERNATIONAL SYMPOSIUM ON BIOLOGICAL INDICATORS OF WATER QUALITY

The University of Newcastle Upon Tyne announces a symposium to be held September 12-15, 1978. A number of eminent research workers from Britain, the Continent and North America have been invited to review recent developments in the use of biological indicators to assess the quality of water.

The purpose of this symposium is to summarize the present state of knowledge on biological assessment so that more widespread use can be made of the biological populations in water. The quantitative and qualitative use of rooted plants, algae, vertebrates, invertebrates, protozoa and microorganisms in the examination of rivers, lakes, and reservoirs, abstracted waters, estuaries and coastal waters will be introduced by the speakers. Present British, Continental and North American systems and standards, and proposed new systems and standards will be fully discussed.

Additional information can be obtained from:

Mrs. Lilian M. Evison
Lecturer in Public Health Engineering
Department of Civil Engineering
The University
Newcastle Upon Tyne—NE 1 7 RU

INTERNATIONAL ASSOCIATION OF WATER POLLUTION RESEARCH

The Ninth Biennial Conference of the International Association of Water Pollution Research will be held in Stockholm on June 12-18, 1978. Post-Conference activities include Research Seminars on "Kinetics of Wastewater Treatment" (in Copenhagen), "Lake Restoration" (in Lund), "Eutrophication in Deep Lakes" (in Gjøvik, Norway), and "Water Pollution Control in Pulp and Paper Industries" (in Stockholm). Additionally, participants might consider attending the 4th European Sewage and Refuse Symposium and the 5th International Sewage and Refuse Engineering Exhibition in Munich during the week of June 5-9, 1978. Information on the IAWPR Biennial Conference may be obtained from Richard Dick at Cornell University. Fred Pohland, Georgia Tech, has made travel arrangements for Conference attendees.

The Eleventh Biennial Conference of the International Association on Water Pollution Research will be held in Toronto in June, 1980. The Canadian National Committee has invited the U.S.A. National Committee to submit proposals for possible Post-Conference Seminars in the United States. Those interested in considering the development of a proposal to USANC for a possible Post-Conference Seminar should contact Richard Dick, Cornell University, concerning IAWPR and USANC Guidelines for such seminars.

A proposal has been submitted by USANC to EPA for preparation of a report on International Research activities based on developments at the Stockholm Conference. A similar report, based on the IWAPR Conference in Sydney, has previously been submitted. It is available from the National Technical Information Service. The NTIS Accession Number is PB-268-365, and it costs \$3 in microfiche and \$8 in paper.

ASCE NATIONAL CONFERENCE ON ENVIRONMENTAL ENGINEERING

The Environmental Engineering Division (ASCE) will hold its annual conference in Kansas City, Missouri, on July 10-12, 1978. The opening session will be highlighted by the Simon W. Freese Memorial Lecture which will be presented by Mr. Russell Train. In addition, philosophical papers will be presented by Dr. John T. O'Connor, University of Missouri-Columbia, and Dr. Ross E. McKinney, University of Kansas. Technical papers covering a wide area of environmental engineering topics will be presented in four concurrent sessions during the course of the meeting. A wives program will be provided and will include a hospitality room, tour of the city, a special workshop, and assistance with places to see.

Information may be obtained by contacting:
Mr. Gregory Reed, Conference Chairman
1122 East 48th Street
Kansas City, Missouri 64110

TWENTY-FIRST CONFERENCE ON GREAT LAKES RESEARCH

The International Association for Great Lakes Research will hold its Twenty-first Annual Conference at the University of Windsor, Windsor, Ontario, May 9, 10, and 11, 1978. The purpose of the Conference is to stimulate information exchange on theoretical and experimental research having a direct relation to the Great Lakes, or applicable to the understanding or management of large lakes in general. Papers related to the physical, chemical, biological, engineering, and socio-economic problems of the Great Lakes will be presented. The Conference will consist of three full days of technical and plenary sessions and panels.

A CALL FOR PAPERS

The American Water Works Association Research Foundation is organizing an International Water Reuse Symposium under the principal sponsorship of the Office of Water Research and Technology (U.S. Department of the Interior) and U.S. Army Medical BioEngineering Research and Development Laboratory. The Symposium will be held in Washington, DC March 25-29, 1979. With the theme of "Water Reuse—From Research to Application", it will be the first week-long effort devoted entirely to renovation and reuse of wastewaters. Subjects to be covered include pertinent case histories, new water recycling research and practical community applications. Selected papers will emphasize innovative approaches, new or unreported system design and performance data and future water reuse plans.

Technology transfer will be paramount from formal papers at plenary and concurrent sessions, sub-group workshops, and special poster presentations designed to optimize one-to-one communication.

The program is directed to individuals from water, wastewater utilities, consulting firms, federal and state research/regulatory agencies, research divisions of manufacturers, Universities and other water research organizations. Interested authors are invited to submit qualification information and a detailed 500 word abstract of their proposed papers by September 15, 1978 to:

Richard D. Heaton
Conference Organizing Committee
AWWA Research Foundation
6666 West Quincy Avenue
Denver, Colorado 80235 U.S.A.
(303) 794-7711.

AEEP/ENGINEERING — SCIENCE AWARD FOR BEST DOCTORAL THESIS RELEVANT TO PRACTICE

This is to announce that applications are being accepted for the Engineering Science Award of \$1000 for the best doctoral thesis relevant to practice. In order to be eligible, a thesis must be completed between July 1, 1977, and May 31, 1978.

Research will be judged on the following basis: scientific and technical—20%; originality—20%; practical—50%, and clarity—10%. Three copies of the candidate's thesis must be submitted by May 31, 1978, to Dr. John F. Andrews, Department of Civil Engineering, University of Houston, Houston, Texas 77004 (713-749-4481).

AEEP SPONSORS WATER RESEARCH SYMPOSIUM

The Association of Environmental Engineering Professors is sponsoring a symposium to present current research in the field of water treatment. The symposium will be entitled "New Discoveries in Water Treatment Research" and will be held on Wednesday evening, June 28, from 7-10 pm, during the week of the Annual American Water Works Association Convention in Atlantic City, New Jersey. Papers are now being solicited for 15-minute presentations on "up-to-the-minute" research developments. Abstracts should be sent by May 19, 1978 to: Dr. John T. O'Connor, Department of Civil Engineering, University of Missouri, Columbia, Missouri, 65201.

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