



# Newsletter

Published Quarterly by the Association of Environmental Engineering Professors

VOLUME 15, NO. 2

APRIL, 1980

## PRESIDENT'S CORNER

By publication time for the next Newsletter issue, the Purdue Workshop and the 4th National Environmental Education Conference will be history. It is my hope that most of the membership will have had the opportunity to participate in one or both of these activities.

While each of these activities involves the contribution of a number of people, the simple truth is that the major burden rests with the individual carrying the title "Chairperson." On behalf of the organization, and myself I would like to extend heartfelt thanks and appreciation to the respective chairpersons of the Workshop and Educational Conference, Norm Schmidke and Jim Patterson. I know from my contact with them that each has invested an enormous amount of time in their respective activities.

To address the Toronto Education Conference further, upon examination of the arrangements available in Toronto, it should be apparent that some superb bargains have been arranged for accommodations on the University of Toronto campus. Note that lodging can be obtained for the week following the Education Conference for those wishing to stay over and attend the 10th International Conference on Water Pollution Research.

A slate of eminent invited speakers has been arranged that lends an international perspective to the Conference with Lord Eric Ashby, Werner Stumm and Rolf Kayser. Gerry Rohlich will be the dinner speaker on Thursday night and those who have heard Gerry speak before realize the treat that awaits completion of the dinner.

However, the highlight of the conference and its intrinsic value, is the convening of the people responsible for the teaching of Environmental Engineering with the objective of discussing the important issues facing the discipline and setting the course of environmental education for the next several years. Historically, the Education Conferences have had a significant impact on the educational philosophy of the field and the curriculum structure of many Environmental Engineering Programs.

There are many of you who have expressed concern about the future of environmental engineering education at both the graduate and baccalaureate levels. It would seem imperative that these concerns be defined, discussed and resolved, if possible, in a forum of the educators in the field. I would urge each AEEP member to give strong consideration to attending the Toronto Conference and upon attending to take an active and constructive part in the deliberations and subsequent development of resolutions.

I look forward to seeing you in Toronto.

Roger Minear

## IMPORTANT AEEP MEETINGS AT PURDUE

- |                           |                                                                               |
|---------------------------|-------------------------------------------------------------------------------|
| WORKSHOP:                 | 8:30 a.m.<br>Monday, May 12, 1980<br>Room 214<br>Stewart Center               |
| GENERAL BUSINESS MEETING: | 8:00 p.m.<br>Tuesday, May 13, 1980<br>Room 214<br>Stewart Center              |
| AEEP BOARD MEETING:       | 9:00 a.m.<br>Sunday, May 11, 1980<br>West Lafayette Inn (formerly the Hilton) |

All AEEP members are urged to make arrangements to attend the workshop and the general meeting if at all possible. Members desiring to bring specific matters to the attention of the Board should contact President Minear as soon as possible.

## WELCOME TO NEW AEEP MEMBERS

William Brian Arbuckle  
Environmental Engineering Sciences  
320 Black Hall  
University of Florida  
Gainesville, FL 32611  
904-392-0843

Mark M. Benjamin  
Dept. of Civil Engineering  
More Hall FX-10  
University of Washington  
Seattle, WA 98195  
206-543-7645

George E. Hoag  
Dept. of Civil Engineering  
University of Connecticut  
Storrs, CT 06268  
203-486-4015

Allen J. Medine  
Dept. of Civil Engineering  
The University of Connecticut  
Storrs, CT 06268

J. Jeffrey Peirce  
Dept. of Civil Engineering  
Duke University  
Durham, NC 27706  
919-684-2434

Thomas C. Young  
Dept. of Civil and  
Environmental Engineering  
Clarkson College  
Potsdam, NY 13676  
315-268-4430

## DEADLINE FOR JULY NEWSLETTER

Items to be included in the next issue should be received by the Editors no later than July 3, 1980. Please submit any items of general interest to the profession to:

J. F. Judkins, Jr. and J. M. Morgan  
Co-Editors, AEEP NEWSLETTER  
Department of Civil Engineering  
Auburn University  
Auburn, AL 36830  
(205-826-4320)

## AMERICAN ACADEMY OF ENVIRONMENTAL ENGINEERS

The American Academy of Environmental Engineers will hold oral and written examinations for those environmental engineers who wish to be certified in a specialty as Diplomates in the Academy on July 22, 1980. Applications must be received no later than May 15th on forms available on request from the Office of the Executive Director, American Academy of Environmental Engineers, P.O. Box 1278, Rockville, Maryland, 20850.

AAEE is the only known organization exclusively dedicated to work actively for improvement of environmental engineering standards in the areas of science and technology as well as professional conduct. Areas of specialty recognized by the Academy are: General Environmental Engineer, Air Pollution Control Engineer, Industrial Hygiene Engineer, Radiation Protection Engineer, Solid Waste Management Engineer, and Water Supply and Wastewater Engineer.

The Academy was organized in 1955 to improve the practice, elevate the standards, and advance the cause of environmental engineering to better serve the public. It is sponsored by the Air Pollution Control Association, the American Institute of Chemical Engineers, the American Public Health Association, the American Public Works Association, the American Society for Engineering Education, the American Society of Civil Engineers, the American Water Works Association, the Association of Environmental Engineering Professors, the National Society of Professional Engineers, and the Water Pollution Control Federation. Membership numbers over 2,000 Diplomates throughout the United States and several foreign countries.

Upon certification, each applicant becomes a Diplomate of the American Academy of Environmental Engineers. Requirements for certification include good moral and professional character, graduation with a degree in engineering from a qualified institution, registration as a professional engineer in one of the states of the United States or provinces of Canada, eight years of professional environmental engineering experience—four of which must be in responsible charge—and satisfactory completion of written and oral examinations given by the Academy.

Dr. P. W. Purdon, the AEEP contact for AAEE will attend the AEEP Board of Directors meeting to be held just prior to the Purdue Industrial Waste Conference (see notice elsewhere in this NEWSLETTER). Any interested AEEP member may meet with him at that time to discuss matters relating to AAEE.

## AEEP WORKSHOP

AEEP will sponsor a one-day workshop entitled "Process Scale-up in Sanitary Engineering" just prior to this year's Purdue Industrial Waste Conference on Monday, May 12, 1980. There is no fee for the workshop, but all attendees are urged to pre-register. The workshop will be directed by Dr. Norman Schmidke and will be held in Room 214 of the Stewart Center on the Purdue Campus. Registration will begin at 8:30 a.m. and the workshop itself will get underway at 9:00 a.m.

The objectives of the workshop are to examine how laboratory and pilot-scale process information can be successfully translated to prototype applications and, conversely, to explore ways of developing transfer functions which enable practitioners to transfer a process problem experienced at full-scale to the laboratory for analysis and solution.

For more information or to pre-register, contact:

Dr. Norman Schmidke  
Wastewater Technology Center  
Canada Center for Inland Waters  
Burlington, Ontario L7R4A6  
(416) 637-4374

### PUBLICATION OF THESIS TITLES

As a service of the AEEP Membership, the Board of Directors has 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 1979-80 work.

Time interval: July 1, 1979 to June 30, 1980

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 varies, persons interested in a specific publication will be asked to contact the Faculty Advisor directly.

Deadline: Submit by August 31, 1980 to:

J. F. Judkins, Jr. and J. M. Morgan  
Co-Editors  
AEEP Newsletter  
Department of Civil Engineering  
Auburn University  
Auburn, Alabama 36830

## AEEP RESEARCH AWARDS

### ENGINEERING-SCIENCE/AEEP AWARD

Engineering-Science, Inc. and the Association of Environmental Engineering Professors are pleased to announce that applications are being accepted for the Engineering-Science, Inc./AEEP Award for the best doctoral thesis relevant to environmental engineering practice published between June 1, 1979 and May 31, 1980. The award consists of a certificate and \$1,000 for the primary research advisor and a similar award for the student. One copy of the candidate thesis must be submitted to the address shown below no later than June 30, 1980.

Mr. Donald Suggs  
125 West Huntington Drive  
Arcadia, California 91006

The selection committee will consist of Dr. David Jenkins, Chairman, Dr. Perry McCarty and one individual designated by Engineering-Science, Inc. Entries will be graded as follows:

Scientific and Technical Validity of the Research	25 points
Originality	25 points
Contribution to the Advancement of Environmental Engineering and Science	40 points
Clarity of Presentation (organization)	10 points
Total	100 points

The winners will be notified in September, 1980, and the awards will be presented at the AEEP meeting at the Water Pollution Control Federation conference in Las Vegas, Nevada, in October.

### NALCO/AEEP AWARD

The Nalco Chemical Company and the Association of Environmental Engineering Professors are pleased to announce that applications are being accepted for the NALCO/AEEP Award of \$2,500 for the best doctoral thesis in chemical research dealing with Industrial Waste Treatment or Combined Municipal and Industrial Waste Treatment published between June 1, 1979 and May 31, 1980. The award is to be shared equally between the Ph.D. candidate and the principal faculty advisor. Two copies of the candidate thesis must be submitted on or before June 30, 1980 to:

Dr. John T. Novak  
Department of Civil Engineering  
University of Missouri  
Columbia, Missouri 65201

The winners will be notified in September, 1980 and the awards will be presented at the AEEP meeting at the Water Pollution Control Federation conference in Las Vegas, Nevada, in October.

# MEETINGS OF INTEREST

## FOURTH NATIONAL CONFERENCE ON ENVIRONMENTAL ENGINEERING EDUCATION JUNE 19-21, 1980 UNIVERSITY OF TORONTO, CANADA

The Fourth Conference on Environmental Engineering Education will be held at the University of Toronto on June 19-21, 1980. The conference is sponsored by the American Academy of Environmental Engineers and AEEP. A number of other professional and educational organizations are cooperating in the conference. Four focal issues, encompassing a number of important subissues, have been selected to be addressed at the conference:

1. Qualities of excellence in Environmental Engineering education.
2. Curricula balance in Environmental Engineering education.
3. Relationship of Baccalaureate to graduate Environmental Engineering education.
4. Micro vs Macro orientation in Environmental Engineering education.

Preconference draft position papers on each of the four issues are being prepared by Task Groups. These draft papers will provide the basis for discussion and debate by conference attendees at Discussion Sessions during the Conference. These Discussion Sessions are expected to produce recommendations for plenary consideration by the Conference membership.

Housing for the Conference is available through local hotels or on the University campus. Campus housing is far more economical than the hotels and is available through Dr. Barry Adams, Chairman of Local Arrangements, Department of Civil Engineering, University of Toronto, Toronto M5S 1A4.

An interim report by the conference committee will be given at the AEEP general membership meeting at the Purdue Industrial Waste Conference.

## IAWPR

The following IAWPR conferences are scheduled:

*Tenth Biennial Conference - Toronto - June 23-27, 1980*

Obtain registration information from:

Mr. Ken Charbonneau

Conference Services

National Research Council of Canada

Ottawa, Ontario M5S 1A4

CANADA

*IAWPR Pre and Post Conference Events*

*Pre Conference Seminar on 'Non Point Source Pollution' - June 12-20, 1980*

Professor Bill Snodgrass  
Department of Civil Engineering  
McMaster University  
Hamilton, Ontario L8S 4L7  
CANADA

*Pre Conference Seminar on 'Nuclear Power and Wastewater Management' - June 17-20, 1980*

Dr. Kenneth Hare  
Institute for Environmental Studies  
University of Toronto  
Toronto, Ontario M5S 1A4  
CANADA

*Pre Conference Seminar on 'Ecotoxicology and the Aquatic Environment' - June 17-19, 1980*

Professor P. M. Stokes  
Institute of Environmental Studies  
University of Toronto  
Toronto, Ontario M5S 1A4  
CANADA

*Post Conference Seminar on 'Design of Water and Wastewater Services for Cold Climate Communities' - June 28-29, 1980*

Dr. S. E. Hrudehy  
Department of Civil Engineering  
University of Alberta  
Edmonton, Alberta T6G 2G7  
CANADA

*Specialized Conference on River Basin Management - June 29-July 3, 1980*

Mr. Leo Weaver  
Executive Director  
The Ohio River Valley Water  
Sanitation Commission  
414 Walnut Street  
Cincinnati, Ohio 45202

*Specialized Conference on the Environmental Impact of Man's Use of Water - Brighton, England - November 3-7, 1980*

Program and registration information may be obtained from:

Mr. G. Lee  
Water Data Unit  
Reading Bridge House  
Reading RG1 8PS  
UNITED KINGDOM

*Second International Conference on Urban Storm Drainage - Urbana, Illinois - June 14-19, 1981*

Submit extended abstracts (500-700 words) by September 1, 1980 to:

Dr. Ben Chia Yen  
Department of Civil Engineering  
University of Illinois  
Urbana, Illinois 61801

**DESIGN OF WATER QUALITY  
MONITORING NETWORKS SHORT COURSE**  
Colorado State University,  
Fort Collins, Colorado

The Short Course will develop, in detail, a systematic procedure for designing a water quality monitoring network. Following an overview of an entire water quality information system, the Course will cover selection of water quality variables to measure, location of sampling stations and determination of sampling frequency.

The Short Course is directed to persons actively involved with the design, operation and/or management of a water quality monitoring network. The Short Course assumes that attendees have a brief introduction to all of the material presented during the Short Course. Attendees should bring a calculator, as it will be needed during problem sessions. The Course will be July 21-25, 1980 at Colorado State University, Fort Collins, Colorado.

The fee will be \$460.00 which includes tuition, all class material, the course manual, refreshment breaks and the banquet Thursday evening.

For further information contact:

Mrs. Kristine L. Schneider  
Research Institute of Colorado  
Drake Creekside Two  
2625 Redwing, Suite 200  
Fort Collins, Colorado 80526  
(303) 491-8540 or 491-8652

## ASCE

The 1980 National Conference on Environmental Engineering is sponsored by the Environmental Engineering Division of the American Society of Civil Engineers in cooperation with Manhattan College, the Environmental Engineering Group of the ASCE Metropolitan Section, the New York Water Pollution Control Association Inc., and the North Jersey Branch of the ASCE New Jersey Section.

The purpose of this conference is to give those active in the environmental area the opportunity to exchange ideas and information. This interaction will further increase knowledge and enhance engineering practice within the environmental discipline. Many individuals and committees, both on the local and national levels, have generously contributed their time in helping to prepare a well-balanced program of general interest.

The program content follows the guideline set by areas of environmental interest as defined by the Environmental Engineering Division and focuses on the major environmental issues of the day. The topics outlined by the Environmental Engineering Division and covered in this con-

ference include: the provision of safe, palatable, ample public water supplies; the proper disposal of or recycling of wastewater and solid wastes; the adequate drainage and disposal of or recycling of urban and rural storm water runoff; the control of surface and subsurface water, soil, and air pollution; the handling and disposal of hazardous wastes; and the social and environmental impacts of technological advances in these areas as well as in related public health areas concerned with: (1) provision of adequate sanitation in urban, rural, and recreational areas, and (2) elimination of industrial and agricultural health hazards. Furthermore, particular attention has been given in the program to the subject of hazardous wastes due to its current interest on the national level, while noise control was a topic which generated a session based on local interest. In addition, during the opening session a general evaluation of environmental policy in the areas of sludge disposal and hazardous wastes in the environment is to be presented. This conference encompasses a wide range of subjects and activities. It will be an experience which will prove to be both informative and enjoyable for all.

The registration fee is \$110 for those who pre-register (before June 9) and \$125 for those who register at the conference in New York. The fee includes a copy of the Summary Proceedings, the Awards Luncheon, Reception, and coffee breaks. Because this meeting must be self-supporting, the registration fee will apply to all who attend. Pre-registration is encouraged by using the accompanying form. Daily registrations, special student and spouse fees are available.

For additional information contact:

ASCE  
345 East 47 Street  
New York, NY 10017  
(212) 644-7544

## AWWA

The AWWA Student Activities Committee will sponsor two technical sessions and a reception for students, faculty and friends at the Annual AWWA Meeting in Atlanta. All of these functions will be held on Wednesday, June 18.

Inexpensive (\$8.50 per night) housing is available near the Georgia Tech campus for male students and faculty at the downtown YMCA. This housing is located within easy walking distance (2½ blocks) of the convention center and has various recreational facilities that will be available for those staying there.

For more information contact:

Dr. T. F. Craft  
Nuclear Research Center  
Georgia Institute of Technology  
Atlanta, GA 30332



## GORDON RESEARCH CONFERENCES

The Gordon Research Conferences for the summer of 1980 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. 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. Sufficient time is available to stimulate informal discussion among members of each Conference. In addition, scientists in related fields become acquainted and valuable associations are formed that often result in collaboration and cooperative efforts among laboratories. Meetings are held in the morning and in the evening, 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.

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.

Requests for applications to the Conferences, or for additional information, should be addressed to:

Dr. Alexander M. Cruickshank, Director  
Gordon Research Conferences  
Pastore Chemical Laboratory  
University of Rhode Island  
Kingston, Rhode Island 02881  
Tel. 401-783-4011 or 401-783-3372

Mail for the office of the Director from June 9 to Aug. 22, 1980 should be addressed to:

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

## APCA

The 73rd APCA Annual Meeting & Exhibition will be held at the Place Bonaventure Exhibition Hall, Montreal, Quebec, within walking distance of all major downtown hotels. The exhibition, most technical sessions, and Technical Council meetings will be conducted in the Place Bonaventure/Hotel Bonaventure complex.

The Queen Elizabeth Hotel, which is the headquarters hotel, will be the site of the Reception & Mixer on Sunday evening (June 22), the Plenary Session on Monday (June 23), the Critical Review session and President's Luncheon on Wednesday (June 25), and the Annual Banquet on

Thursday evening (June 26). In addition, the Continuing Education and Refresher Courses the preceding Thursday through Sunday, June 19-22, will be presented at the Queen Elizabeth Hotel.

For further information contact:

Air Pollution Control Association  
P.O. Box 2861  
Pittsburgh, Pennsylvania 15230

## "INTERNATIONAL SYMPOSIUM ON INLAND WATERS AND LAKE RESTORATION"

to be held in  
Portland, Maine  
September 8-12, 1980

This Symposium will provide international exchange of scientific information on the most current lake water quality problems and worldwide investigative efforts. Presentations will be made by recognized world experts in a variety of water pollution control fields. Sessions will also foster discussions among water quality experts, planning personnel, those charged with regulatory responsibilities, lake restoration consulting engineers and the general citizenry for whom the benefits are designed.

The symposium is sponsored by The United States Environmental Protection Agency and the Maine Department of Environmental Protection. For further information contact:

Dr. Ann N. Clarke, Project Manager  
AWARE, Inc.  
P.O. Box 40284  
Nashville, Tennessee 37204

## FIRST ANNUAL INDIANA WATER RESOURCES SYMPOSIUM

The Indiana Water Resources Association is sponsoring, in cooperation with the Indiana University School of Public and Environmental Affairs and the U.S. Geological Survey, the First Annual Indiana Water Resources Symposium to be held at the Turkey Run Inn, Marshall, Indiana, June 12-14, 1980. Individuals in all water-related disciplines and types of employment are encouraged to attend. Special emphasis will be placed on the following subject areas:

Evaluation of agricultural non-point source pollution  
Urban hydrology  
Hydrologic aspects of surface mining  
Lake management  
National and state water policy  
Water law  
Toxic substances  
Indiana 208 activities

For more information contact:

Bill Wilber  
U.S. Geological Survey  
1819 N. Meridian Street  
Indianapolis, Indiana 46202  
(317) 269-2034

## NSF RESEARCH SUPPORT OFFER

The National Science Foundation's Division of Inter-governmental Science and Public Technology plans to award approximately \$1.8 million in Fiscal Year 1980 to support an experimental research program in Appropriate Technology. For the purpose of this program, appropriate technologies are defined as those which possess many of the following qualities. They are decentralized, require low capital investment, are amendable to management by their users, result in solutions that conserve natural resources and are in harmony with the environment. They are small or intermediate in scale, take into account site-available, natural and human resources and are more labor than capital-intensive. Topics included are:

- Appropriate Technology and Urban Innovation
- Small-Scale Industrial Technology
- Recycling, Resource Recovery and Conservation
- Appropriate Technology, Rural Revitalization and the Small Farm
- Food and Nutrition
- Appropriate Technology - Its Roles and Impacts on Society, the Economy and Technological Development

The program will not provide support for product design, product or technology development, technical assistance, demonstrations or economic development projects. Clinical, market, classified and weapons-related research are not funded by NSF. Technologies for alternative energy sources, energy conversion and related topics are excluded because they fall within the scope of an appropriate technology program of the U.S. Department of Energy.

For further information, contact:

Dr. Edward H. Bryan, Program Manager  
Experimental Program in Appropriate Technology  
National Science Foundation, Room 1108  
Washington, D.C. 20550

## CALL FOR PAPERS

### ENVIRONMENTAL IMPACT ASSESSMENT REVIEW

The *Environmental Impact Assessment Review* is a new quarterly publication for planners, engineers, scientists, and administrators involved in the practice of impact assessment. The *Review* seeks to bridge the gap between theory and practice. Brief summaries of new analytic techniques and breakthroughs in environmental decision making will be highlighted in each issue. Feature articles by practitioners, scholars, and policy makers will address some of the most urgent problems in the field, including:

- Approaches to forecasting long-term and second-order impacts on the natural environment
- Technical dilemmas of social impact assessment
- Strategies for effective public involvement in environmental decision making
- Mediators and their role in environmental dispute resolution
- Strengths and weaknesses of market-oriented approaches to environmental regulation
- The future of NEPA and the EIS requirement
- Cross-cultural perspectives on environmental impact assessment
- Intergovernmental coordination in environmental impact assessment

The editors welcome a variety of contributions including reflections on current practice, approaches to solving technical problems, case studies of innovative practice, theoretical analyses, book reviews, research summaries, and news of agency and organization activities.

All manuscripts typed double-spaced in original, and three copies should be sent to:

Rebecca Packard  
Massachusetts Institute of Technology  
77 Massachusetts Avenue  
Cambridge, Mass. 02139

## ACADEMIC MARKET PLACE

- SCHOOL:** University of Delaware  
**POSITION:** Visiting Assistant Professor - 2 to 3 year term with possibility of tenure.  
**QUALIFICATIONS:** Ph.D. Degree  
**RESPONSIBILITIES:** Undergraduate teaching in fluid mechanics; development of graduate courses in water resources planning, hydrology or groundwater.  
**APPLICATION DEADLINE:** June 15, 1980  
**CONTACT:** Dr. A. F. Gaudy, Jr., Chairman  
Department of Civil Engineering  
University of Delaware  
Newark, DE 19711

**SCHOOL:** University of Delaware  
**POSITION:** Assistant Professor  
**QUALIFICATIONS:** Ph.D. with strong background in Urban Transportation and urban problems.

**RESPONSIBILITIES:** Undergraduate and graduate teaching in urban transportation and development and direction of research.

**APPLICATION DEADLINE:** June 15, 1980  
**CONTACT:** Dr. A. F. Gaudy, Jr., Chairman  
Department of Civil Engineering  
University of Delaware  
Newark, DE 19711

**SCHOOL:** University of Delaware  
**POSITION:** Research Assistant Professor  
**QUALIFICATIONS:** Ph.D. in CE or Environmental with strong background in chemistry and biology and demonstrated research competence.

**RESPONSIBILITIES:** Working with M.S. and Ph.D. students on research, some teaching and development of research proposals.

**APPLICATION DEADLINE:** June 15, 1980  
**CONTACT:** Dr. A. F. Gaudy, Jr., Chairman  
Department of Civil Engineering  
University of Delaware  
Newark, DE 19711

**SCHOOL:** Drexel University  
**POSITION:** Rank and salary open.  
**QUALIFICATIONS:** Ph.D. in either Environmental, ChE, ME, CE with specialization in solid waste.

**RESPONSIBILITIES:** Teach graduate solid waste courses and develop research, some undergraduate teaching.

**APPLICATION DEADLINE:**  
**CONTACT:** Dr. P. W. Purdom, Director  
Environmental Studies Institute  
Drexel University  
Philadelphia, PA 19104

**SCHOOL:** Florida Institute of Technology  
**POSITION:** Assistant or Associate Professor  
**QUALIFICATIONS:** Ph.D. in Environmental or ChE with demonstrated teaching and research ability.

**RESPONSIBILITIES:** Teaching and research in water and/or wastewater treatment; also teaching in air pollution, solid waste, radioactive waste and industrial waste.

**APPLICATION DEADLINE:**  
**CONTACT:** Dr. Donald R. Mason  
Florida Institute of Technology  
Melbourne, FL 32901

**SCHOOL:** Georgia Institute of Technology

**POSITION:** Rank and salary open.  
**QUALIFICATIONS:** Ph.D. in engineering; strong background and practical experience in design control of optimization of water and waste treatment systems.

**RESPONSIBILITIES:** Undergraduate and graduate teaching and development of research.

**APPLICATION DEADLINE:**  
**CONTACT:** Dr. J. E. Fitzgerald, Director  
School of Civil Engineering  
Georgia Institute of Technology  
Atlanta, GA 30332

**SCHOOL:** University of Minnesota  
**POSITION:** Rank open (tenure track).  
**QUALIFICATIONS:** Ph.D. in engineering or applied science; strength in physical/chemical/biological process analysis; interest in design.

**RESPONSIBILITIES:** Undergraduate and graduate teaching, research development.

**APPLICATION DEADLINE:** Appointment beginning September 16, 1980.

**CONTACT:** Charles Fairhurst, Professor and Head  
Department of Civil and Mineral Engineering  
112 Mines and Metallurgy Bldg.  
University of Minnesota  
211 Church Street, S.E.  
Minneapolis, MN 55455

**SCHOOL:** State University of New York, Syracuse  
**POSITION:** Associate or Full Professor  
**QUALIFICATIONS:** B.S. in Engineering with Ph.D. in Agricultural, Civil, Environmental or Forest Engineering (P.E. desirable).



**RESPONSIBILITIES:** Graduate teaching and research in water pollution controls for forest, wood and paper industries.  
**APPLICATION DEADLINE:** June 30, 1980  
**CONTACT:** Dean William P. Tully  
Search Committee Chairman  
School of Environmental and Resources Engineering  
State University of New York  
College of Environmental Science and Forestry  
Syracuse, NY 13210

**SCHOOL:** University of North Carolina - Chapel Hill  
**POSITION:** Associate or Full Professor, tenure track and Director of Institute of Environmental Studies.  
**QUALIFICATIONS:** Ph.D. in Sciences, Engineering or Environmental Management Administrative experience.  
**RESPONSIBILITIES:** Organization of seminars and symposia, and stimulation of University wide Environmental programs; graduate research and teaching.

**APPLICATION DEADLINE:** June 1, 1980  
**CONTACT:** Professor J. Donald Johnson  
106 Rosenau Hall, 201H  
University of North Carolina  
Chapel Hill, NC 27514

**SCHOOL:** University of North Carolina - Chapel Hill  
**POSITION:** Associate or Full Professor (tenure track)  
**QUALIFICATIONS:** Ph.D. in engineering and active in engineering aspects of water quality research.  
**RESPONSIBILITIES:** Graduate teaching, research.

**APPLICATION DEADLINE:**  
**CONTACT:** Dr. Philip C. Singer  
Dept. of Environmental Sciences and Engineering  
School of Public Health  
201-A  
University of North Carolina  
at Chapel Hill  
Chapel Hill, NC 27514

**SCHOOL:** University of Notre Dame  
**POSITION:** Visiting faculty member  
**QUALIFICATIONS:** Ph.D. or equivalent experience; research interest in wastewater treatment and pollution abatement.

**RESPONSIBILITIES:** Graduate teaching and research participation in ongoing projects.  
**APPLICATION DEADLINE:** As soon as possible.  
**CONTACT:** Dr. Lloyd H. Ketchum, Jr.  
Department of Civil Engineering  
University of Notre Dame  
Notre Dame, IN 46556  
(219) 283-3709

**SCHOOL:** University of Oklahoma  
**POSITION:** Rank open (tenure track); Visiting appointment possible.

**QUALIFICATIONS:** Ph.D. or equivalent experience and registration or potential for registration.  
**RESPONSIBILITIES:** Graduate and undergraduate teaching and research development in Environmental and Water Resources.

**APPLICATION DEADLINE:** May 30, 1980  
**CONTACT:** Dr. Leale E. Streebin, Director  
Civil Engineering and Environmental Science  
202 W. Boyd, Rm. 334  
University of Oklahoma  
Norman, OK 73019

**SCHOOL:** Old Dominion University  
**POSITION:** Assistant Professor - Environmental Engineering  
**QUALIFICATIONS:** CE Degree, Ph.D., potential for registration in Virginia  
**RESPONSIBILITIES:** Undergraduate and graduate teaching and research involvement.

**APPLICATION DEADLINE:** June 1, 1980  
**CONTACT:** Dr. William A. Drewry, Chairman  
Department of Civil Engineering  
Old Dominion University  
Norfolk, VA 23508

**SCHOOL:** Tennessee State University  
**POSITION:** Assistant/Associate Professor (tenure track)

**QUALIFICATIONS:** Ph.D. in Environmental Engineering.  
**RESPONSIBILITIES:** Teaching and research in Environmental Engineering.

**APPLICATION DEADLINE:**  
**CONTACT:** Professor Macon G. Hinton, Head  
Civil Engineering Dept.  
Tennessee State University

3500 Centennial Blvd.  
Nashville, TN 37203

SCHOOL: University of Vermont  
POSITION: Assistant/Associate Professor  
(tenure track)  
QUALIFICATIONS: Ph.D. in Civil or Environmental  
RESPONSIBILITIES: Undergraduate and graduate  
teaching and research in  
environmental engineering.  
APPLICATION DEADLINE: May 1, 1980  
CONTACT: Dr. James P. Olson, Acting  
Chairman  
Department of Civil Engineering  
University of Vermont  
Votey Hall  
Burlington, VT 05405

SCHOOL: West Virginia University  
POSITION: Rank not specified.  
QUALIFICATIONS: Environmental Engineer with  
interest in solid-hazardous  
waste management and  
groundwater transport of  
contaminants.  
RESPONSIBILITIES: Teaching undergraduate and  
graduate courses; advising  
graduate students and di-  
recting research.

APPLICATION DEADLINE:  
CONTACT: Dr. Fred Beaufait  
Chairman, Dept. of Civil  
Engineering  
West Virginia University  
Morgantown, WV 26506

SCHOOL: West Virginia University  
POSITION: Rank not specified.  
QUALIFICATIONS: Interest and experience with  
alternative and innovative  
waste treatment systems.  
RESPONSIBILITIES: Directing technical services  
for the EPA Small Waste-  
water Clearinghouse at WVU;  
teaching and research.

APPLICATION DEADLINE:  
CONTACT: Dr. Fred Beaufait  
Chairman, Dept. of Civil  
Engineering  
West Virginia University  
Morgantown, WV 26506  
(304) 293-3031

SCHOOL: University of Wyoming  
POSITION: Department Head, Civil &  
Architectural Engineering  
QUALIFICATIONS: Ph.D. in Civil Engineering

or closely related field, ex-  
perience in academics and  
research, government, or in-  
dustry. Should possess ad-  
ministrative and leadership  
qualities.

RESPONSIBILITIES: Administration of depart-  
ment with 20 faculty, 300  
undergraduate and 28 grad-  
uate students.

APPLICATION DEADLINE: As soon as possible (Appoint-  
ment for Fall Semester,  
1980)

CONTACT: Professor Arthur P. Boresi  
Chairman, Search Committee  
University Station Box 3295  
Laramie, WY 82071

SCHOOL: University of Kentucky  
POSITION: Assistant Professor (Tenure  
Track)

QUALIFICATIONS: Ph.D., (BS in C.E. with re-  
gistration potential)

RESPONSIBILITIES: Undergraduate and graduate  
teaching, research student  
advising and university ser-  
vice.

APPLICATION DEADLINE: July 31, 1980

CONTACT: Prof. Robert A. Lauderdale  
Chairman, Search Committee  
Dept. of Civil Engineering  
University of Kentucky  
Lexington, KY 40506

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The University of Texas at Austin  
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