PRESIDENT'S CORNER

In February of this year, the sixth edition of the Register of Environmental Engineering Graduate Programs was published. On behalf of the board of AEEP I extend my thanks to all of the members who took time from their busy schedules to fill out the necessary forms. The register is already a best seller and second printing has been ordered. Bill Knocke and Gary Amary, who compiled the register, deserve a round of applause for a job well done. Additional copies of the register can be obtained from Des Lowler.

The Executive Committee of AEEP held its annual meeting in Washington, D.C. on February 25, 1989. On Monday the 27th, we took advantage of being in Washington to visit with EPA, various congressional staff persons, NSF, and WPCF. The principal objectives of the meetings with EPA and congressional staff persons were to express the concerns of AEEP’s membership with the limited availability of funding for investigator-initiated grants and to offer any assistance that might be of help in increasing the budget for the Office of Exploratory Research. In follow-up letters written to the congressional staffers with whom we visited, the initiative to increase the EPA budget for support of the peer-reviewed grants program was endorsed. Specifically, it was noted that the principal benefits to be derived from this program are:

- The Exploratory Research Grants Program allows for the advancement of basic scientific information that is essential for the development of practical and cost-effective engineering solutions to environmental problems.
- The Exploratory Research Grants Program helps to foster a diversity of scientific inquiry while at the same time serving to train the professionals required to address our environmental needs.

The meetings with NSF and WPCF were primarily informational, dealing with issues of mutual concern, including funding at NSF and the new research journal of WPCF.

Means of improving the effectiveness of the organization were also discussed at the meeting of the executive board. We will keep you apprised of any developments in this area. In the meantime, we welcome any suggestions you might have on how AEEP can be more effective in serving the membership.

Preparation of the AEEP history is progressing and, if all goes well, the printed volume should be available on or before the WPCF meeting in San Francisco. We have been contacted by the Pan American Health Organization about the possibility of developing a working program between AEEP, PAHO, and AECP and our Latin American counterparts. We will keep you informed of any developments as we explore the options for effective interactions.

It has been called to my attention that many environmental engineering professors have stopped participating actively in the Standard Methods committee process. Notwithstanding the travails of committee work, I encourage all of you to participate and become more active in getting several of the methods that are now being used as “standard” into the next editions. I also encourage you to attend the Purdue Industrial Waste Conference and the AEEP Workshop in early May.

George Tchobanoglous
President
AEEP Workshop — Biological Processes in Drinking Water Treatment

1989 AWWA Annual Conference, Los Angeles, California

Biological processes have the potential to remove pollutants that may be ineffectively removed by conventional treatment, such as biodegradable organics, synthetic organic compounds, ammonia, nitrate, iron, and manganese. Bio-attack of organic matter and ammonia decreases available substrates for microbial growth in distribution systems, reduces taste and odor, and decreases the amount of precursor available to form disinfection-by-products. Biological removal of certain contaminants could extend the service time or capacity of subsequent physicochemical processes. In U.S. water treatment, the practice is often to impair or preclude development of biological activity. Nevertheless, use of biological treatment to provide a safe and high quality drinking water is becoming relatively common in other parts of the world, especially in Western Europe. Information on biological process fundamentals pertinent to drinking water and European experience will be presented at this AEEP Workshop.

1. Overview and Principles

   Edward J. Bouwer
   Geography and Environmental Engineering
   The Johns Hopkins University
   Baltimore, Maryland 21218

2. European Experience

   Peter M. Hutt
   Dept. of Civil Engineering
   University of Alberta
   Edmonton, Canada T6G 2G7

Engineering Science and CH2M-HILL Dissertation Awards

Entries are sought for the 1989 Outstanding Doctoral Dissertation Awards, one sponsored by Engineering Science, Inc., and the other sponsored by CH2M-HILL. Two separate but equivalent awards will be given, each consisting of a plaque and a cash prize of $1000 for the student and a plaque and a cash prize of $500 for the faculty advisor.

Faculty advisors wishing to compete should send two copies of the thesis to Dr. Stephen J. Randtke, Civil Engineering Department, University of Kansas, Lawrence, KS 66045. The deadline for submission is June 15, 1989, and the thesis must have been completed during the 1988-1989 academic year. Faculty advisors are urged to limit themselves to a single entry (which will be considered for each of the two awards).

Faculty advisors should also be forewarned of the customary procedure for selecting the judges. According to long-established tradition, the faculty advisors of the winning theses serve as the judges for the following year. The winners of the 1988 awards were:


Each thesis will be judged on the basis of 100 points allocated as follows:

Scientific and Technological Validity of Research — 25
Originality of Research — 25
Contribution to Advancement of Environmental Engineering and Science — 20
Clarity of Presentation (Organization) — 10

The selections will be made by September 1, 1989 so that the winning students and faculty advisors can be invited to the AEEP luncheon of the WPCF meeting.

AEEP Outstanding Paper Award

Nominations are sought for the 1989 AEEP Outstanding Paper Award for a paper that has "withstood the test of time". Nominators should send a letter (2 pages maximum) to Dr. Stephen J. Randtke (Depart- ment of Civil Engineering, University of Kansas, Lawrence, KS 66045) giving the full reference and the reasons why the paper is considered a "landmark" and explaining how it has influenced the practice of environmental engineering. A nomination cannot be made by an author or co-author of the paper. Nominations are due July 15.

According to the current rules of the competition, any author on a winning paper is ineligible in the
Each year the papers ranked 2, 3, and 4 are automatically considered in the next year's voting. A paper is dropped from consideration if: (a) it finishes fifth or lower in any year, or (b) it has been in competition for three years without being selected. The only canvass nominations for this year's competition are:


The Awards Committee consists of a voting Chairman with a three-year term and six members each with a rotating three-year term. The Chairman is appointed by the President of AEEP. The two new committee members are appointed each year by the Chairman. Each term starts at the end of the Annual WPCT Conference. The current Committee is:

Stephen J. Randall, Chairman, term ends 1991
Perry L. McCarry, term ends 1989
Richard L. Dick, term ends 1989
Edward J. Bouwer, term ends 1990
Jack L. Cleatson, term ends 1990
Mackenzie L. Daves, term ends 1991
Jon C. Lieberman, term ends 1991

Any Committee member who is an author or co-author of a nominated paper will refrain from voting on that paper.

The current Committee has been asked to consider whether any changes should be made in the nomination process or in the selection process. Suggestions from the AEEP membership are most welcome and should be conveyed (preferably in writing) to the Chairman of the Awards Committee.

Please take a few moments to reflect on the papers that you think have had the greatest impact on environmental engineering and consider nominating one of them for this award. Note that papers in all areas of environmental engineering, including air pollution, water quality modelling, solid waste disposal, etc., are eligible.

**Nominations Requested for 1990 AEEP Lecturer**

Nominations are being sought for the 1990 Distinguished Lecturer Tour. If you wish to nominate a speaker, contact Dr. Fred Pohland, Dept. of Civil Engineering, 1141 Remsen Hall, University of Pittsburgh, Pittsburgh, PA 15261-2294 (412-624-1880). Nominations are due no later than June 1.

**Emeritus Member Nominations Sought**

The AEEP Board of Directors typically elects members to the status of Emeritus Member at its fall meeting. The Board wishes to solicit nominations for Emeritus Member status. Nominees shall be individuals who have made significant contributions to the Association over a significant period of time. Nominations shall be due no later than December 1, 1990.

**AEEP Committee Assignments**

**Committee**

AAE Liaison
AWWARF Liaison
Archives
Arrangements
Audit
Awards
Computer Software
Distinguished Lecturer
Education
1990's Education Conference
Enrollment Survey
Legislative Analysis
Membership
Newsletter
Nominating
Publications
Register

**Chairperson**

Paul Brest
Jim Edmiston
David Hendricks
Tom Keinath
John Ferguson
Steve Randall
J. B. Neerling
Mokzam Suman
Bill Batchelor
Robert Ballad
Bill Roy
Ray Lieberman
Bill Knocie
Greg Boardman
Dick Luty
Diamond Lawler
Bill Knocie
AAAEE Certification

The American Academy of Environmental Engineers (AAEE) is a group of highly qualified professional engineers who have imposed self-testing and review for entry qualification. The Academy is an active participant in the accreditation of environmental engineering curricula, ensuring that educational standards are responsive to the needs of the profession. Thus, the activities of the Academy should be of major interest to all environmental engineering educators.

The Association of Environmental Engineering Professors is a sponsoring organization of the American Academy of Environmental Engineers. Each sponsoring organization of the Academy may submit a list of not more than five (5) of its qualified members for consideration by the AAEE Board for certification.

The candidates must meet the following AAEE criteria:
1. B.S. in engineering or a related field.
2. Professional Engineer's license.
3. Professionally engaged on a full-time basis.
4. Must have at least fifteen (15) years of environmental engineering experience in one or more of the specialty fields. Eleven (11) of the fifteen (15) years shall be in responsible charge, which work must include active participation with responsibility primarily in one or more fields of environmental engineering.

Candidates' applications will be reviewed to see that all criteria are met and then presented to the AAEE Board for approval. The Board-approved applications will be submitted with a letter of transmittal to AAEE for consideration by the Academy Review Committee and Board.

Any active AEEP member in good standing who meets the above criteria is eligible for nomination. All applications should include letters of endorsement from three AEEP members who are familiar with the candidate's achievements. Consideration shall be given to the record of service to AEEP.

Note that any AEEP members meeting the criteria may apply directly to the Academy for membership, and acceptance is conditional on an oral examination. In addition, any members that do not have the experience noted above but have eight or more years experience in this field can apply directly to the Academy, one acceptance is conditional on a written and an oral examination. The Academy address and telephone number is:

American Academy of Environmental Engineers
132 Holiday Court, Suite 206
Annapolis, MD 21404
(301) 266-3311

Qualified AEEP members wishing to be sponsored as a nominee of AEEP or desiring more information should apply directly to the AEEP-AAEI Trustee, Dr. Paul L. Bishop, Department of Civil and Environmental Engineering, ML 74, University of Cincinnati, Cincinnati, Ohio 45221.

Student Memberships in IAWPRC

The International Association on Water Pollution Research and Control (IAWPRC) has a graduate student membership classification that costs only $28 per year. Since this enables them to receive subscriptions to both Water Research and Water Quality International, many wish to take advantage of this inexpensive opportunity to begin building their professional library. It is requested that environmental engineering faculty make this known to their graduate student body, and encourage them to join IAWPRC. An appropriate number of application blanks can be obtained by contacting Prof. T. Keilinh either by mail (Department of Environmental Systems Engineering, Clemson University, Clemson, SC 29634-0919), or telephone (800-666-5572).

Reorganization of NSF's Engineering Directorate


The Environmental Engineering Program was renamed Environmental Systems, one of two "catego-
ries" in the new Environmental and Ocean Systems Program. The section of the Biological and Critical Systems Division within which this Program is located is named Bioengineering and Environmental Sys-
tems, and includes three other programs, viz: Biochemicals, Biotechnology, and Biomedical Engineering and Aiding the Disabled. The other section in the Division of Biological and Critical Systems is the Haz-
ard and the Natural and Man-Made Hazard Mitigi-
ation Programs.

The Director of the Biological and Critical Systems Division is Dr. Robert D. Hanson. The Head for the Bioengineering and Environmental Systems Section is Dr. Duane F. Bruley. Program Directors in the Envi-
ronmental and Ocean Systems Program are: Dr. Edward H. Bryan (Environmental Systems) and Dr. Norman Caplan (Ocean Systems). The Assistant Di-
rector for Engineering is Dr. John A. White and his Deputy is Dr. Carl W. Hall.

Request for Information About Applications of Radiation Energy in Environmental Engineering

The American Society of Civil Engineers' (ASCE) Task Committee on Radiation Energy Treatment of Water and Wastewater met on January 18 in Emeryville, California. Committee Chairman is Paul Krugel, Pro-

fessor Emeritus of Nuclear Civil Engineering at Stanford University. Control Group members present and their topic assignments are: E. B. Ashbrook, Water and Wastewater Division Manager, CH2M HILL Denver (Gamma Radiation); E. H. Bryan, National Science Foundation (High Energy Radiation); F. J. D. Hough, Atomic Energy Control Board, London (Gamma Radiation); and A. J. Carlson, School of Engineering, University of Washington (Electrostatic Radiation); Richard J. Dick, Dept. of Civil Engineering, Cornell University (X-Ray Radiation).

The Committee plans to complete a preliminary draft of a report for discussion at a Committee meeting during the 1989 ASCE National Conference on Environmental Engineering in Austin, Texas (July 10-12, 1989). Any contributions by members of AEEP to the Control Group of the Task Committee that will assist them in compiling a summary of the state-
of-the-art of radiation energy treatment of water and wastewater and other appropriate applications in environmental engineering practice are welcome.

Annual American Institute of Chemical Engineers (AIChE) Environmental Division Student Award

Call for Papers

1st Place — $300.00
2nd Place — $200.00

3rd Place — $100.00

Certificates and awards will be presented at the Summer National AIChE Meeting to be held in Philadelphia, Pennsylvania on August 20-23, 1989. The AIChE will also provide the 1st place winner with the lowest cost airfare and two (2) days accommoda-
tion for attendance at the awards presentation. In addition, the paper is intended for publication in Environmental Progress.

Contest entry rules:
1. The work must be a first paper (i.e., report on or-
iginal unpublished work).
2. The paper must report on research or investiga-
tion related to an environmental program.
3. The author must be the sole author and must be a full-time undergraduate student in a school with an accredited chemical engineering pro-
gram.
4. The student author must be a member of the student chapter of AIChE.

Submit manuscript with cover letter by May 14, 1989, to the Second Vice Chairman of the Environ-
mental Division:

Dr. Joseph J. Cramer
Stone & Webster Engineering Corporation
245 Summer Street - 11th floor
Boston, MA 02107

Southern Wastewater Treatment Center Nominated for ASCE Engineering Achievement Award

The Southern Wastewater Treatment Center, located in the Cleveland suburb of Cuyahoga Heights, Ohio, is one of 13 projects nominated for the American Society of Civil Engineers' (ASCE) 1989 Outstanding Civil Engineering Achievement Award (OCEAA).

The OCEA award recognizes engineering projects that demonstrate the greatest engineering skills and represent the greatest contributions to civil engineer-
ing progress and mankind. The winning project and awards of merit will be named in April 1989 at the Society's Board of Direction meeting.

In continuous construction for 13 years, the Southern Wastewater Treatment Plant is the largest in Ohio and one of the ten largest advanced treatment facilities in the United States. It has an average design flow of 200 million gallons a day (mgd) and a stormwater flow capacity of 735 mgd.

ASCE Announces Priority Issues

The American Society of Civil Engineers (ASCE) re-
cently published the summary of ASCE Board-
adopted policy statements, position papers, and
The award was instituted in 1968 and is endowed by the partners and family of Wesley B. Homer, past president of the Society.

Kaufman and Haith worked to develop a method for characterizing uncertainties associated with land application of sludge and quantifying the risk of nitrate-nitrogen groundwater contamination. The resulting method can be used on a particular site basis to determine the severity and frequency of nitrate-nitrogen contamination and subsequent sludge application rates.

ASCE's Bechtel Award

Dr. Reynold K. Watkins, professor of civil and environmental engineering at Utah State University, won the American Society of Civil Engineers' (ASCE) 1988 Stephen G. Bechtel Pipeline Engineering Award. He received the award in recognition of his contributions to the advancement of pipeline design.

Watkins' work has focused on improving life in the arid Great Basin and arid lands around the world by designing pipelines to bring in water. He developed pipeline principles in terms of dimensionless parameters, a concept borrowed from his colleagues in hydraulics.

His work showed that buried pipes could be much larger than had been thought previously, resulting in the manufacture of large diameter pipes. He also showed that a good backfill contributes more support to the pipe-soil system than had been acknowledged, seeing as part of the structure instead of just another load on it. Therefore, the use of lighter-weight, lower-cost pipes, including plastics, become feasible alternatives to traditional pipes, especially in corrosive environments.

AAE Awards

The American Academy of Environmental Engineers recently announced the winners of its national Excellence in Environmental Engineering competition.
Awards were made in the following four (4) categories:

Research
Entrant: Electric Power Research Institute
Engineer in Charge: Robert L. Glover, P.E.
Project Name: High Sulphur Test Center
Location: Barker, New York

Planning
Entrant: Metropolitan Water Reclamation District of Greater Chicago
Engineer in Charge: William Macaitis, P.E.
Project Name: Sidestream Elevated Pool Aeration (SEPRA) on the Calumet Waterway System in the Greater Chicagoland Area
Location: Chicago, Illinois

Design
Entrant: Malcolm Pirnie, Inc.
Engineer in Charge: John J. Stankutis, P.E.

Project Name: Southerty Wastewater Treatment Center
Location: Cuyahoga Heights, Ohio

Operations/Management
Entrant: Pima County Wastewater Management Department
Engineer in Charge: George A. Brinsko, P.E.
Project Name: Regional Sludge Management Program
Location: Tucson, Arizona

Thirty-five (35) entries were received from industry, consulting firms, government agencies and institutions. The entries were judged by a four (4) person panel composed of Dr. Edward H. Bryan, P.E., DEE, Program Director Environmental Engineering, National Science Foundation; Rear Admiral Benjamin F. Montoya, P.E., Commander, Naval Facilities Engineering Command U.S. Navy; William S. Parker, P.E., DEE, Assistant Secretary of Defense Environment; and Howard B. Stusman, Editor-in-Chief, Engineering News Record Magazine.

CONFERENCES AND EDUCATIONAL PROGRAMS

ASCE Call for Papers: National Forum on Education and Continuing Development for the Civil Engineer: 'Selling the Agenda'
Las Vegas, Nevada, April 17-20, 1990

This program will focus on the theme "Selling the Agenda" so as to generate recommendations for civil engineering education for the next decade and into the twenty-first century.

The forum will join educators, practitioners, human resource managers, employers and professional societies in specific discussions on how to take action regarding the key issues in civil engineering education.

There is a need for papers in both specialty areas and professional concerns as noted below:

**Specialty Areas**
- Construction
- Engineering Mechanics
- Environment
- Geotechnical
- Hydraulics
- Management
- Materials
- Structures
- Surveying and Mapping
- Transportation

**Profession-Wide Concerns**
- Accreditation
- Aerospace
- Cold Regions Engineering
- Computers and Computer Applications
- Continuing Education: Professional Development
- Design, Creativity, Safety, QA/QC
- Professional Considerations (Including ethics, communications, legal aspects)
- Students: Quality: Quantity: Career Guidance
- Urban Planning

The forum will rely on input from selected papers which will be published in the pre-conference proceedings and mailed to all registrants. Papers will be scheduled for discussion rather than presentation and may reflect significant issues other than or in addition to the above suggested topics.

Please submit paper topic (a brief summary is required) by April 30, 1989. Authors will be notified of the acceptance of their paper topic by May 31, 1989.

To obtain your author's information packet, write or phone:
Charles Day
Director of Education Services
ASCE
345 East 47 Street
New York, NY 10017
☎ (212) 705-7659
or toll-free, ☎ 1-800-548-ASCE
Announcement of ASM Programs

The following programs will be sponsored by the American Society for Microbiology (ASM) in the coming year:

In Houston, Texas:

- Water Quality: Current Status of Indicator Organisms and Newly Emerging Microbiological Problems
  Friday, 15 September
- Biotechnology Applications in Hazardous Waste Treatment
  Friday and Saturday, 16-17 September
- Purification and Analysis of High-Purity Water Systems
  Saturday, 16 September

In Minneapolis, Minnesota:

- Water Quality: Current Status of Indicator Organisms and Newly Emerging Microbiological Problems
  Thursday, 19 October
- Biotechnology Applications in Hazardous Waste Treatment
  Thursday and Friday, 20-21 October
- Purification and Analysis of High-Purity Water Systems
  Friday, 20 October
- Techniques for Detecting and Evaluating Biofouling
  Friday, 20 October
- Biodegradation Assessment of Environmentally Relevant Chemicals
  Saturday, 21 October

Fees: $150 - $310

Sponsor: American Society for Microbiology
Contact: Workshop Registrar, American Society for Microbiology, 1915 L St. NW, Washington, DC 20006

NATO/Advanced Study Institute on Transport Processes in Porous Media


A NATO/ASI will be held at Pullman, Washington to present the fundamentals and recent developments in transport phenomena in porous media. Because of the pressing needs in areas of practical interest, the meeting will address various aspects of contamination and flow in soils and groundwater. Lectures will be given by leading experts in the field. Oral and poster presentations by participants are also planned. Travel and/or accommodation grants are available for selected participants from NATO countries. The meeting will be directed by M. Yavuz Corapcioglu, Dept. of Civl and Envng. Washington State University Pullman, WA 99164-3001, USA and Jacob Bear, Dept. of Civl Engg. Technion-Technion City, 32000, Israel.

Those who are interested in participating should contact M. Yavuz Corapcioglu, (509) 335-4678.

List of Contributors and Topics

F. M. Adler (CNRS, France) — Fractal Porous Media
J. Auffait (Grenoble, France) — Dynamic Behavior of Porous Media
J. Bear & Y. Bouchonnet (Technion, Israel) — Deformation of Nondrained Effects in Transport Models
J. M. Buchlin (Von Karman Inst., Belgium) — Transport in Process Associated with Nuclear Reactors
T. H. Christensen (Tech. Univ., Denmark) — Heavy Metals in Soils
F. A. L. Dullien (Waterloo, Canada) — Structure of Porous Media
B. D. Kay & E. Perfect (Guelph, Canada) — Transport in Freezing Soils
W. Kinkelbach (Kassel, FRG) — Random Walk Modeling
P. K. Kitanidis (Stanford Univ.) — Parameters for 3-D Flow
J. C. S. Long (Lawrence Berkeley Lab) — Fractured Porous Media
P. L. McCarty, C. S. Ciddor & L. Alvarez (Stanford Univ.) — Microbial Processes in Porous Media
P. V. Roberts (Stanford Univ.) — Migration of Organics in Aquifers
D. Szwarc (CNRS-ENSC, France) — Theory of Chromatography
F. Schwille (FRG) & H. O. Schiegg (Switzerland) — Movement of Hydrocarbons in Groundwater

8
W. J. Weber (U. Michigan) — Adioporation Processes in Porous Media
S. W. Wheatcroft (U. Nevada) — Applications of Fractal Geometry

Additional contributors and topics may be added.

IWEM Technology Transfer in Water and Environmental Management Conference and Exhibition
Metropole Hotel, NEC, Birmingham, September 12-14, 1989

Topics for the Institute of Water and Environmental Management (IWEM) Conference will range over the whole area of water and environmental management, but IWEM 89 will have a heavier-than-usual emphasis on technology: new technology, technology with relevance to both industrialized and developing countries and technology transfer.

Plenary sessions will be held on Monday, Wednesday afternoons and Thursday morning. On Wednesday morning three concurrent sessions will deal with water and wastewater treatment, river engineering and solid and hazardous waste.

Authors are drawn from the USA (EPA), France, Wto, water authorities, water companies, consultants, contractors, a waste regulation authority and research and training consultants.

EMPLOYMENT OPPORTUNITIES

University of California, Los Angeles

Faculty Position in Environmental Science and Engineering, School of Public Health. Upper level tenured-track appointment in the Interdepartmental Environmental Science and Engineering Program and, jointly, in the Division of Environmental and Occupational Health Sciences. The candidate should have demonstrated potential to be the director of the ESE program. Research and teaching in an environmentally pertinent area of biology, microbiology, chemistry, or biochemistry, as broadly defined. The ESE Program emphasizes the relationship between science and public policy, so a demonstrated interest in this relationship plus an outstanding record of research in a specialized area is required. Opportunity to participate in the M.S. and Ph.D. training programs of the Division and for other departments such as Biology, Microbiology, Biological Chemistry, Chemistry, Engineering, Earth Sciences, etc. Send curriculum vitae, statement of research and teaching goals, and names of three references by March 15, 1989 to: Robert A. Math, Chair, ESE Search Committee, School of Public Health, UCLA, Los Angeles, CA 90024. UCLA is an affirmative action, equal opportunity employer. Women and minorities are encouraged to apply.

University of California, Riverside

The newly formed College of Engineering at the University of California, Riverside expects to make a faculty line or tenured-track appointment in the area of Environmental Engineering on or after July 1, 1989. While the appointment level is open, preference will be given to exceptionally qualified individuals having an understanding of research. Applicants in all areas of environmental engineering science are welcome. Research within the fields of aquatic chemistry, water quality, groundwater pollution, hazardous wastes, risk assessment, and air pollution control are of particular interest. The individual appointed will be expected to play a strong role in the development both of Environmental Engineering and the College of Engineering. Please send a resume and names of at least three individuals willing to write letters of references to:

Chair, Search Committee
Environmental Engineering
College of Engineering
Riverside, California 92521

The University of California, Riverside is an equal opportunity, affirmative action employer.

University of Cincinnati

The Department of Civil and Environmental Engineering at the University of Cincinnati invites applications for a tenure-track position at the full professor level in environmental engineering. Research expertise should be in the area of biological treatment processes with a specialization in anaerobic treatment preferred. Applicants should have a record of outstanding scholarly achievement and must have demonstrated strong leadership abilities in research with a proven record of significant publications and sponsored research. Responsibilities include teaching at both the graduate and undergraduate level, the development of a strong research program, and advising of students at the B.S., M.S., and Ph.D. levels. The anticipated starting date is September 1989. Applications will be received until the position is filled. UC is an affirmative action/equal opportunity institution and in that spirit, we encourage applications from a broad spectrum of people including women and members of ethnic minorities. Applicants should send their resumes and the names of three references to: Dr. R. Scott Summers, Search Committee Chairperson, Depart
Clarkson University

The Department of Civil and Environmental Engineering, Clarkson University, is accepting applications from any academic rank to replace faculty on sabbatical leave. Ph.D. in environmental engineering or a related field is required. Contributions to graduate teaching and participation in graduate research programs are desirable. Salary and responsibilities are negotiable. Closing date for applications is August 1, 1989. Submit resume to: Dr. Norbert L. Ackermann, Chairman, Dept. of Civil and Environmental Engineering, Clarkson University, Potsdam, NY 13699. An Affirmative Action/Equal Opportunity Employer.

Duke University

Duke University, Department of Civil and Environmental Engineering requests applications for a tenure-track faculty position in environmental engineering, starting in September 1989 or soon thereafter. Requirements include 1) an ability and interest in teaching, 2) potential for independent scholarly research and 3) a doctoral degree. Although all areas in environmental engineering will be considered, backgrounds in water treatment processes, water and wastewater design, and aquatic chemistry/biology are preferred. Send resumes and references to:
Dr. P. A. Vesilind
Dept. of Civil and Environmental Engineering
School of Engineering
Duke University
Durham, NC 27705

Duke University is an equal opportunity employer.

New Mexico State University

Tenure-track Faculty Position in Environmental Engineering. The Department of Civil, Agricultural and Geological Engineering at New Mexico State University invites applications for a tenure-track faculty position in Environmental Engineering. The position is at the rank of Assistant Professor or Associate Professor commencing Fall Semester 1989. Candidates for this position should have a degree in Engineering and an earned doctorate with emphasis in Environmental Engineering. Design experience is desirable and a strong potential to establish a research program and to publish in peer-reviewed journals is essential. Responsibilities include teaching of the undergraduate and graduate levels and the development of an externally-funded sponsored research program. Among the areas of interest are general environmental engineering, water and waste treatment processes, and hazardous waste management. Candidates with a background in the physical-chemical processes and in contaminant movement in porous media are of particular interest. This position offers an excellent opportunity for personal and professional growth. Good communication skills in both spoken and written English are required. Applications including a detailed resume and three letters of reference are required by March 1, 1989, but applications will be accepted until the position is filled. Inquiries and applications should be sent to: Dr. K. R. White, Professor and Head, Department of Civil, Agricultural, and Geological Engineering, Box 30001 - Dept. 3CE, New Mexico State University, Las Cruces, NM 88003.

New Mexico State University is an equal opportunity/affirmative action employer.

University of North Carolina at Charlotte

The Department of Civil Engineering, The University of North Carolina at Charlotte invites applications for a possible tenure-track position in an interdisciplinary biotechnology program. Candidates with a background in biotechnology and research and practical experience in industrial fermentation/bioprocess engineering are preferred. The successful candidate will work with an interdisciplinary team of faculty from the Chemistry Department, Biology Department, and College of Engineering. This tenure-track position at the Assistant or Associate Professor level requires a doctoral degree or near completion of work in civil engineering or a closely related field. Duties include undergraduate and graduate teaching, student advising, pursuit and development of sponsored research, and participation in ongoing research. Good communication skills in both spoken and written English are necessary and University teaching and/or research experience is desirable. The position will be available as early as August 1989. Applications received before June 1, 1989 will be given priority. Applicants should send a complete resume including publications, transcript of all courses included in graduate program and the names, addresses, and telephone numbers for four references to: Dr. L. Ellis King, Chairman, Department of Civil Engineering, University of North Carolina at Charlotte, Charlotte, NC 28223. The University of North Carolina at Charlotte is an equal opportunity/affirmative action employer.

Rutgers University

Extension Specialist in Environmental Science. Cooperative Extension, Cook College/New Jersey Agricultural Experiment Station, Rutgers University, New Brunswick, New Jersey. 12 month, tenure track fac-
Tennessee Technological University

Tennessee Technological University invites applications for a tenure-track position at the Assistant/Associate Professor level in Civil (Environmental) Engineering available July 1, 1989. Candidates are expected to be actively involved in research (85%-90% time), attract external funding for support of a research program and teach undergraduate and graduate courses (10-15% time). A Ph.D. in Engineering (Environmental emphasis), U.S. citizen or permanent resident, and possession of, or eligibility to obtain, a Tennessee P.E. license are required. The successful candidate will conduct research at the Center for the Management, Utilization and Protection of Water Resources and teach in association with the Civil Engineering department. Review of applicants begins April 15, 1989. Position will remain open until filled. Please send resume with names and addresses of three references, a list of publications, and a statement of research interests to:

Dr. V. Dean Adams, Director
Center for the Management, Utilization and Protection of Water Resources
Tennessee Technological University Box 5082
 Cookeville, TN 38505

TTU is an EOE/AA Employer.

Tennessee Technological University

Assistant Professor of Chemistry (Environmental). A key position in the Center for the Management, Utilization and Protection of Water Resources is to be filled by a qualified Environmental Chemist.

The position requirements include:

Providing expertise for environmental chemistry aspects of the Center's research, teaching, and public service roles.

Applicants must hold a doctorate in Chemistry or Environmental Chemistry, have a strong record of research and a strong potential for securing external funding. A demonstrated expertise in an area related to environmental aspects of water quality is necessary with postdoctoral experience being preferred. This position is to be filled by the Assistant Professor level and is a tenure-track position. The position is available July 1, 1989. Salary will be commensurate with qualifications and experience. Position is open until filled. Send letter of intent, including a statement of research interests, curriculum vitae and names and addresses of three references to:

Dr. V. Dean Adams, Director
Center for the Management, Utilization and Protection of Water Resources
Tennessee Technological University Box 5082
Cookeville, TN 38505

TTU is an EOE/AA Employer.

Tennessee Technological University

Assistant Professor of Plant & Soil Science (Environmental). A key position in the Center for the Management, Utilization and Protection of Water Resources is to be filled by a qualified Soil Scientist.

The position requirements include:

Providing technical support for soil chemistry aspects of the Center's research, teaching, and public service roles.

Developing long-term research programs in the area of soil chemistry.

Advising the Center Director in retaining the necessary environmentally oriented personnel and other resources needed to conduct interdisciplinary research.
Operation of a soil chemistry research program in a highly independent, self-motivated manner.

Teaching courses at the graduate and undergraduate level related to soil chemical analysis and soil chemistry.

Applicants must hold a Ph.D. in Soil Science, be ARPA-C certified, or have the ability to obtain certification within a period of one year from date of appointment. Expertise in sorption and movement of soil contaminants relating to protection of water resources is required. Demonstrated knowledge of soil isotope and radio-isotope analytical methods is highly desirable.

This position is to be filled at the Assistant Professor level and is a tenure-track position. The position is available July 1, 1989. Salary will be commensurate with qualifications and experience. Position is open until filled.

Send letter of intent, including a statement of research interests, curriculum vitae and names and addresses of three references to:

Dr. V. Dean Adams, Director
Center for the Management, Utilization and Protection of Water Resources
Tennessee Technological University
Box 5082
Cookeville, TN 38505

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APPLICATION FOR MEMBERSHIP
in the
Association of Environmental Engineering Professors

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Official Title _______________________________ Dept. _______________________________

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Applying for: Membership Status ☐ Rank: ____________________________ Affiliate Status ☐

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Blacksburg, Virginia 24061

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The publications from AEEP are shown on the order form in this edition of the newsletter. This new order form reflects several changes in the publications that have occurred in the last few months.

The Laboratory Manual for Unit Operations and Unit Processes has been fully revised under the direction of Makram Suidan and is now available. This 1989 edition of the Manual has had a few new experiments added and a few deleted from the previous edition. In addition, all experiments were carefully reviewed (by several volunteers) prior to publication, so this new edition of the manual maintains the strengths of previous editions and includes several improvements.

The new edition of the Register of Graduate Programs in Environmental Engineering is also now available from the publications committee. This new 1989 edition has entries from 104 schools, with several pages for each program describing degree requirements, courses available, and faculty research interests. Compiled and edited by Bill Knocke and Gary Amy, this new publication should be invaluable in telling students about attending graduate school. The price is slightly higher than the pre-publication price available when dues notices were mailed. As always, member prices for AEEP publications are set merely to cover costs.

Finally, the Proceedings of the AEEP Conference on Fundamental Research Directions in Environmental Engineering will soon be available and is now listed on the order form. This conference, held in Washington, D.C. in November, 1988, had sessions on physical, chemical, and biological aspects of air, land, water, and inter-media phenomena. All papers and formal discussions of the papers are included in the proceedings. For those who were not able to attend the conference, these proceedings are an excellent way of getting a glimpse of the directions of our field in the coming years. The views presented span several orders of magnitude in both time and space; many would form good discussion items among groups of graduate students and faculty.
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