



Association of
Environmental
Engineering
Professors

Newsletter

VOLUME 29, NO. 1

Published three times yearly by AEEP

April 1994

PRESIDENT'S CORNER

"To Improve the Scientific Basis for Making Decisions on Environmental Issues"

This is the motto for the proposed National Institute for the Environment, presently making its way through the Washington committees. According to Bob Baillod who has been keeping an eye on this new kid on the block, there is every indication that we will have with us a new independent institute to rival NIH, NSF and other such organizations.

The NIE is being proposed because there seems to be nobody in charge of assessing our ever-increasing knowledge about the environment, evaluating the research that daily provides us with more information on what not to do, and coordinating training and education in the environmental sciences. The goals of NIE are to improve the scientific basis for making decisions on environmental issues by increased problem-focused research, improving assessments of current environmental problems and their implication, enhancing communication and information retrieval, and strengthening educational programs.

The proposed institute is to have three directorates; 1. Directorate of Environmental Resources, which is to catalog environmental ecological resources and developing methods for accounting these resources; 2. Directorate of Environmental Systems, concentrating on understanding the function of ecosystems, including climate change; and, 3. Directorate of Environmental Sustainability, which is to address the question of maintaining our systems and resources, including pollution prevention, remediation and conservation.

The complete NIE proposal is attainable from Harry H. Howe, Committee for the National Institute for the Environment, Department of Biological Sciences, M/C 066, the University of Illinois at Chicago, Chicago, IL 60607-7060. Telephone 312-413-0023.

When the draft proposal was first circulated, technology and engineering was completely ignored. As Bob Baillod correctly pointed out in a letter sent to the NIE executive director:

"We like the integrated, coherent and scientific approach to environmental research built into the proposed organization of the NIE. However,...we are concerned that the proposal completely ignores engineering as a component of the research and educational plan... We feel the our (AEEP) membership has an important role to play in the proposed NIE. We are concerned that the proposal does not specifically recognize a role for the engineering profession."

Probably as a direct result of Bob's efforts, engineering is now clearly mentioned as one of the professions that will participate in the NIE programs.

Even without this specific mention, however, we should not have felt left out. Few of us do classical engineering any more in our research and teaching. Fewer still are the theses and dissertations that address purely engineering problems. We have become engineering scientists, and this is where the action is in funding, promotion and education. As such, I don't think we have anything to fear from the NIE, and we ought to support its creation.

There is only one concern that I have with the proposal, and that is the total lack of recognition that environmental decisions are not usually made on a scientific basis, but on ethical grounds. It does not matter how many dolphins the tuna nets catch if one does not care about dolphins. It matters greatly that even one dolphin dies in the nets if one cares very much about dolphins. This has nothing to do with science, and more and better information about the number of tunas and dolphins killed in whatever manner will never change any minds. What we are arguing about is environmental ethics, and the sooner we engineering educators learn to deal with this new reality the better we will become in our jobs.

P. Aarne Vesilind

AEEP NEWS AND ANNOUNCEMENTS

Sengupta and Zhu Receive Graduate Research Awards from AIChE

Arup K. Sengupta (AEEP member and Associate Professor) and Yuewei Zhu (Ph.D. Environmental Engineering, 1993), both of Lehigh University, received the 1993 best paper award from the Separations Divisions of the American Institute of Chemical Engineers (AIChE) during the AIChE Annual meeting in St. Louis. The award is given annually in recognition of an outstanding paper contribution to separation fundamentals or applications co-authored by a graduate student and the student's research advisor.

The paper presented by Zhu and Sengupta was entitled "Selective Sorption of Organic Carboxylates and Other Anions Through Polymeric Ligand Exchange." Major contents of the presentation were published in *Environmental Science and Technology Journal*, 1992, 26, pp. 1990-98. The award for each recipient consisted of plaque, a cash amount of \$1,000 and travel allowance.

The Ch2M-Hill AEEP Doctoral Thesis Awards

| <u>Year</u> | <u>Recipient</u> |
|-------------|---|
| 1988 | John E. Tobiason, "Physicochemical Aspects of Particle Deposition in Porous Media," under the supervision of Charles R. O'Melia, The Johns Hopkins University. |
| 1989 | Jacques Manem, "Interactions Between Heterotrophic and Autotrophic Bacteria in Fixed-Film Biological Processes Used in Water Treatment," under the supervision of Bruce E. Rittmann, University of Illinois (Urbana). |
| 1990 | Craig S. Criddle, "Reductive Dehalogenation in Microbial and Electrolytic Model Systems," under the supervision of Perry L. McCarty, Stanford University. |
| 1991 | Robert E. Martin, "Quantitative Description of Bacterial Deposition and Initial Biofilm Development in Porous Media," under the supervision of Edward J. Bouwer, The Johns Hopkins University. |
| 1992 | Marc Edwards, "Ozonation: Transformation of Natural Organic Matter, Effect on Organic Matter - Coagulant Interactions, and Ozone-Induced Particle Destabilization," under the supervision of Mark Benjamin, University of Washington. |
| 1993 | Radisav Vidic, "Oxidative Coupling of Phenols on Activated Carbon-Fundamentals and Implications," under the supervision of Makram Suidan, University of Cincinnati. |

1994 AEEP Committee Assignments

| <u>Committee</u> | <u>Chair</u> | <u>Vice Chair</u> |
|----------------------------|---------------------|-------------------|
| AAEE Liaison | Aarne Vesilind | N. Bruce Hanes |
| AEEP Register Update | Gary Amy | Robin Collins |
| AIChE Liaison | Michael Aitken | |
| Archives | Richard Walters | |
| Arrangements | Steve Randtke | |
| Audit | Jim Young | David A. Long |
| Awards | Appiah Amirtharajah | |
| AWMA Liaison | Tim Keener | |
| AWWARF Liaison | William Knocke | |
| Bylaws | Mark Benjamin | H. David Stensel |
| Directory | Mark Rood | |
| Distinguished Lecturer | Joe Middlebrooks | Debra R. Reinhart |
| Education | Mike Stenstrom | |
| Enrollment Survey | Bill Ray | |
| Latin American Initiatives | Bruce Thompson | |
| Legislative Affairs | Bob Baillod | |
| Long-Range Affairs | Bruce Logan | N. Bruce Hanes |
| Membership | Ed Bouwer | |
| Minority Recruiting | Jim Johnson | |
| Newsletter | Chet Rock | |
| Nominating | Paul Bishop | Bob Baillod |
| Publications | Des Lawler | |
| 1996 Education Conference | Chet Rock | |
| Sustaining Member Liaison | Joe Malina | |
| UCOWR | Bob Baillod | Howard Peavy |
| USANC Relations | Bruce Rittmann | |
| WEF & WERF Liaison | Bill Boyle | |

Ideas and Time Needed

AEEP is interested in developing laboratory manuals and/or demonstrations that might be used in environmental engineering courses. In addition, there is a need to develop demonstrations, video tapes, etc. that might be used in high schools. Do you have any ideas? (Good ones preferred.) Or time to volunteer to do the work? If so, contact Chet Rock, Newsletter Editor. (207-581-2170) or E-mail CHETROCK@Maine.Maine.edu

Deadline for September 1994

AEEP NEWSLETTER

Please submit articles for the
September
issue of the AEEP Newsletter to:
Chet A. Rock

University of Maine
Dept. of Civil & Environmental Engineering
5711 Boardman Hall
Orono, ME 04469-5711
FAX: (207) 581-1215
Phone (207) 581-2170
EMail - chetrock@maine.maine.edu
before Friday, August 5th.

EMPLOYMENT OPPORTUNITIES

University of Arizona

The Department of Chemical and Environmental Engineering at the University of Arizona is seeking applicants for tenure-track faculty positions at the level of assistant or associate professor. Research and teaching areas of special interest include thermodynamics, process design, and topics with environmental applications; although all areas will be considered. Three positions will be available beginning with the Fall 1994 semester, two of which will be associated with the Environmental Engineering Program. Active research areas currently include aerosols, bioremediation, biological waste treatment and bioseparations, colloidal phenomena, combustion, intermedia pollutant transport, purification of gases and liquids, and water and wastewater treatment. The Department is currently comprised of 12 faculty, 180 undergraduates and 60 graduate students. Approximately 2/3 of the graduate students are pursuing the Ph.D. The review of applications will begin March 15 and will continue until the positions are filled. Applications should be sent to Tom Peterson, Department of Chemical and Environmental Engineering, University of Arizona, Tucson, AZ 85721.

*The University of Arizona is an EEO/AA employer.
Women and minorities are urged to apply.*

University of Connecticut

The School of Engineering at the University of Connecticut invites applications for anticipated tenure-track faculty positions at the Assistant, Associate or Full Professor level in Environmental Engineering, with a focus on pollution prevention, site remediation, or marine processes. Appointments will be in either Chemical, Civil, Mechanical or Metallurgical Engineering in association with the Environmental Research Institute (ERI). Development of, and participation in, ERI sponsored research and service activities is essential. These positions will emphasize the enhancement of economic development through environmental systems research development. Applicants must have a doctorate in engineering and a strong background in one of the following environmental engineering research areas with a preferred emphasis in toxic or hazardous chemicals: air pollution prevention/control processes; process design/separation processes; bioremediation and engineered biological processes; and, estuary/coastal processes. Successful candidates will be expected to develop or have a nationally recognized research program, evidenced by archival publications and substantial external funding. They will develop and teach undergraduate and graduate courses in environmental engineering and in their areas of specialization. Opportunities exist for the development of entrepreneurial activities in collaboration with ERI, which has exceptional analytical and engineering laboratories. Interdisciplinary collaborations are encouraged with other University of Connecticut Institutes and Centers including: Biotechnology, Materials Science, Precision Manufacturing, Computer Applications, Marine Sciences, Environmental Health, Water Resources and Transportation. Salary and start-up packages are highly competitive and dependent on qualifications. Positions are available starting September 1994. Applicants should send their curriculum vitae, a statement of research and teaching interests, and a list of five references to:

Chair, Environmental Engineering Search #4A164, Environmental Research Institute, U-210, University of Connecticut, Storrs, Connecticut 06269-3210.

We encourage applications from under-represented groups including minorities, women and people with disabilities.

University of Delaware

The Civil Engineering Department at the University of Delaware, located in Newark, invites applications for one tenure-track faculty position in Environmental Engineering starting September 1, 1994 or January 1, 1995. It is anticipated that the position will be filled at the Assistant Professor level. The successful candidate must have exceptional qualifications in environmental engineering and must be capable of developing an outstanding research program in the area of environmental biological processes. An earned doctoral degree in environmental engineering or closely related field is required and an EIT certificate or professional registration is desirable. The successful candidate is expected to teach courses at the undergraduate and graduate level such as principles and applications of environmental microbial processes and solid waste management. Currently, the environmental engineering program has four core faculty members with about forty full-time graduate students. The group maintains a high level of research activity and funding. The candidate selected is expected to interact effectively with these and other faculty in related interdisciplinary areas. Applicants should send a complete resume along with names, addresses and telephone numbers of at least three references to: C.P. Huang, Chair, Search Committee, Dept. of Civil Engineering, University of Delaware, Newark, DE 19716, prior to June 15, 1994.

The University of Delaware is an equal opportunity/affirmative action employer which encourages applications from minority group members and women.

The University of Michigan

The Department of Civil and Environmental Engineering at The University of Michigan invites applications for a tenure track faculty position in Environmental Engineering. The position requires a Ph.D. degree and will be filled at the level of Assistant Professor or above, depending upon the qualifications of the individual. Applicants must demonstrate a strong background in environmental engineering; particular program needs include environmental microbiology and biochemistry related to xenobiotic transformation processes, process design as related to the management of hazardous or solid wastes, and geostatistics parameter estimation or optimization with emphasis on subsurface contaminant transport. Applications from outstanding individuals who have considerable teaching and research experience will be considered regardless of the area of expertise. Applicants must be committed to excellence in teaching and research. Responsibilities include teaching undergraduate and graduate courses and developing a creative and vigorous research program. To apply, please send a resume, including teaching and research interests, and the names and addresses of at least three references to: Steven J. Wright, Chair - Search Committee, 113 EWRE, The University of Michigan, Ann Arbor, MI 48109-2125 (313) 764-7148.

The University of Michigan is an equal opportunity/affirmative action employer and especially encourages qualified women and minorities to apply.

Ohio University

The College of Engineering and Technology at Ohio University invites applications from outstanding candidates for a faculty position in the area of environmental engineering with an interest in pollution prevention. The position is tenure-track and will be at the assistant professor level. An earned Ph.D. in an engineering discipline with a demonstrated background in environmental engineering is required. The successful candidate will coordinate and develop undergraduate and graduate courses in pollution prevention for students in both the Civil and Chemical Engineering Departments. The successful candidate will be expected to develop a nationally and internationally recognized research program in environmental pollution prevention. The research area will augment and/or complement the ongoing research projects in the College's thriving Center for Geotechnical and Environmental Research. Applicants should submit a complete resume, including a statement of teaching and research interests, and three references to Dr. Joseph Essman, 150 Stocker Center, College of Engineering, Ohio University, Athens, OH 45701. Screening of the candidates will begin on April 15, 1994, and will continue until the position is filled.

Ohio University is an equal opportunity/affirmative action employer.

Rensselaer Polytechnic Institute

The Department of Civil and Environmental Engineering invites nominations and applications for the Kodak Chair in Environmental Engineering. The chair is funded by the Eastman Kodak Corporation, reflecting a firm commitment to the environment and to education, and includes significant support for the establishment of laboratories and research. Chair candidates should possess an earned doctorate in Civil or Environmental Engineering or a related field, professional registration or the ability to obtain same, and a strong background and proven record in research. The successful candidate will be expected to develop a nationally recognized research program, to participate fully in graduate and undergraduate education, and to provide leadership within the Institute and within the profession.

Rensselaer has a rich history as a leader in environmental engineering education and research, and currently offers both undergraduate (ABET accredited) and graduate degree programs in Environmental Engineering. Current research efforts include interdisciplinary initiatives in environmental responsible design and manufacturing, ecosystem studies at the Rensselaer Freshwater Institute on Lake George, and bioremediation of hazardous pollutants. Programs in related disciplines dealing with environmental problem solving are found within the Schools of Engineering, Science, Humanities and Social Sciences, Management, and Architecture. Please respond to Dr. George J. Dvorak, Chair, Civil and Environmental Engineering, Rensselaer Polytechnic Institute, Troy, NY 12180-3590.

Rensselaer Polytechnic Institute is an Equal Opportunity Employer.



REMINDER

Deadline for the September
1994 AEEP Newsletter
is Friday, August 5th.

Rutgers

The State University of New Jersey invites nominations and applications for a senior faculty position at the rank of Professor. The successful candidate will also be appointed Chair of the Department of Environmental Sciences. The University and the New Jersey Agricultural Experiment Station are committed to strong support and expansion of the Environmental Sciences and Engineering areas. Significant additions to laboratory space (15,000 sq. ft.) are expected very shortly and six new faculty positions in the department are planned over the next three years. Currently the Department has 13 full time faculty, is in the process of filling four positions, and occupies more than 35,000 sq. ft. of laboratory and office space. The position entails leading a growing department within a university with exceptional depth in the area of the environment, from the molecular to the ecosystem level, and from the fundamental to be applied sciences. The successful candidate will be expected to take an active role in integrating departmental activities with other University programs and thrusts in the environmental arena. The candidate must be eligible for a tenured position at the rank of Professor, have a Ph.D. in a relevant field, an understanding of the multidisciplinary needs in the environmental field, and creative ideas for the future. A well-established reputation in a field of environmental sciences or engineering, a record of substantial grant support and administrative, and leadership skills also are required. Appointment is anticipated to be at the Professor level. Salary will be commensurate with qualifications.

Applications with CVs and names of three referees, nominations, and requests for further information should be addressed to Dr. L.Y. Young, Search Committee Chair, Center for Agricultural Molecular Biology, Cook College, P.O. Box 231, Rutgers University, New Brunswick, NJ 08903.

The University is an Affirmative Action/Equal Opportunity Employer.

Villanova University

The Department of Civil and Environmental Engineering is searching for a tenure track faculty member in environmental engineering. The opening is at the rank of Assistant or Associate Professor beginning fall semester (August) 1994. Candidates must have a Ph.D. in civil engineering. A bachelor's degree in civil engineering is desirable. The successful candidate will be expected to teach graduate and undergraduate courses, to advise students, and to conduct research. A strong background in the area of water and waste chemistry is required along with interests in applications, such as, drinking water treatment; groundwater remediation; industrial water or wastewater treatment; or fate and distribution of chemicals in the environment. Submit detailed resume with the addresses, telephone numbers, and fax numbers of three references to Dr. G. Lee Christensen, Search Committee, Department of Civil and Environmental Engineering, Villanova University, 800 Lancaster Ave., Villanova, PA 19085-1681. Resumes will be accepted until the position is filled. Villanova University's suburban campus is located 15 miles west of Philadelphia. The Department of Civil and Environmental Engineering has 12 full-time faculty members and 200 undergraduate students. There are currently 110 students in the Department's graduate program in Water Resources and Environmental Engineering.

Villanova University is an Augustinian related, Roman Catholic institution, and is an affirmative action, equal opportunity employer.

CONFERENCES/CALL FOR PAPERS

The Universities Council on Water Resources Annual Conference August 2-5, 1994 Big Sky, Montana

The Universities Council on Water Council on Water Resources will hold its Annual Conference August 2-5, 1994 at Big Sky, Montana. The theme of the conference will be "Environmental Restoration." August 3 and the morning of August 4 will have invited presentations by speakers from several federal agencies including the Department of Defense, the Department of Energy, the U.S. Environmental Protection Agency, the U.S. Geological Survey, the U.S. Soil Conservation Service, the National Park Service, and others. Each of these agencies will provide various perspectives on the topic of environmental restoration. August 4 and 5 will have several sessions of contributed papers related to various aspects of environmental restoration covering both applications and recent research advances. Leading experts from various universities, consultants, and government agencies will speak at the meeting.

Who should attend? The topics will be of interest to engineers, biologists, hydrologists, ecologists, economists, planners, architects, water resources specialists, environmentalists, attorneys, city and county managers, and legislators. Those attending will include people in these fields from universities throughout the U.S., local, state and federal agencies, private consultants, city, county and state government officials, and environmental groups. For more information on the technical program contact: Larry W. Mays, Dept. of Civil Engineering, Arizona State University, Tempe, Arizona 85287; phone (602) 965-3589; or fax (602) 965-0557.

The full registration fee for the three-day conference will be \$225 in advance and \$250 after July 1, 1994. Registration forms will be published in the spring issue of *Water Resources Update*, and will be included in the full program brochure being sent to delegates and interested parties in April. The fee includes two luncheons, a social hour with cash bar and hors d'oeuvres, the Thursday evening banquet, three continental breakfasts, and coffee breaks during the meeting. Participants will also receive a copy of the proceedings.

A one-day session fee of \$55 will also be offered (an additional \$20 per day includes lunch). Students may register on a one-day basis for \$25 (does not include lunch). Conference registration forms and fees should be sent to Margery Robinson, UCOWR Executive Director's Office, 4543 Faner Hall, Southern Illinois University at Carbondale, Carbondale, IL 62901. For more information, call her at (618) 536-7571; fax (618) 453-2671. Deadline for early registration is July 1, 1994. Make checks payable to UCOWR '94.

1994 ASCE National Conference on Environmental Engineering July 11-13, 1994 Boulder, Colorado

The 1994 ASCE National Conference on Environmental Engineering (NCEE) will be held in Boulder, Colorado from July 11-13, 1994. The conference theme, "Critical Issues in Water and Wastewater," addresses current problems and developments related to water and wastewater technologies for municipal and industrial applications. The technical program includes 120 papers with separate sessions devoted to sludge management, nutrient removal, innovative treatment, inorganics, corrosion control, DBP's, filtration, clarifiers, water resources management, membranes and many others. Practitioners' seminars, designed to bridge the gap between current research/regulation and engineering practice, will be held on the morning of July 11 and include Waterborne Disease Outbreaks in the 1990's: Milwaukee and others, Meeting the Requirements of the EPA Ph/Cu Rule, How to use the 503 Sludge Regulations for Siting and Designing Beneficial Use Facilities, and Selector Technology for Activated Sludge Bulking Control. For more information and conference program call (800) 548-ASCE or (212) 705-7450.

39th Institute in Modeling and Treatment at Manhattan College June 6-10, 1994 Riverdale, New York

The 39th annual Manhattan College Institute in Water Pollution Control will be held June 6-10, 1994 at the Manhattan College Leo Engineering Building, Riverdale, New York. There will be two professional courses offered: Modeling of Transport, Fate, and Bioaccumulation of Toxic Substances in Surface Waters, and Treatment of Municipal, Hazardous and Toxic Wastewaters. These courses have much to offer young engineers and also older professionals who have not been able to stay abreast of the rapidly changing field. The institute was started by Professors Donald O'Connor and Wesley Eckenfelder, and has continued annually since then. Set in a classroom atmosphere, the courses allow for dialog between lecturer and participants. A set of notes is given to each attendee.

For additional information, contact: Ms. Mary Dintrone, Program Coordinator, Manhattan College, Environmental Engineering, Riverdale, NY 10471; phone (718) 920-0169; fax (718) 543-7914.

continued...

1994 Gordon Research Conference Environmental Sciences: Water June 19-24, 1994 New Hampton, NH

The 1994 Gordon Research Conference on Environmental Sciences will address contaminants in soil and subsurface systems. The conference includes topics on: reactions of chemicals in soil; environmental microbiology and biotechnology; transport and transformation of contaminants in the subsurface; experimental controlled release and site studies; environmental risks and regulations; and environmental assessment and exposure. The speaker program mixes young, new researchers and older, established researchers from academia, government and industry. The program brings together environmental scientists and engineers whose work ranges from laboratory-scale to field-scale.

Additional information on the program and an application form to attend, was published in the February 18, 1994 issue of *Science*, or contact Richard G. Luthy, Conference Chair, Dept. of Civil Engineering, Carnegie Mellon University, Pittsburgh, PA 15213 or EMail luthy@ce.cmu.edu

Other Conferences...

June 26th-29th, 1994 Jackson Hole, Wyoming, AWR Annual Summer Symposium - "Effects of Human-Induced Changes on Hydrologic Systems" - General Chairperson: David L. Naftz, U.S. Geological Survey, 1745 West 1700 South, Rm. 1016 Admin. Bldg., Salt Lake City, UT 84104, (801) 975-3389.

November 6th-11th, 1994 Chicago, Illinois, American Water Resources Association 30th Annual Conference and Symposia - "National Symposium on

Water Aquality," "Symposium on National Water Quality Assessment (NAWQA)," and "Symposium on the Future Quality of the Great Lakes" - General Chairperson: Phillip E. Greeson, U.S. Geological Survey, WRD, SE Region, Spalding Woods Office Park, 3850 Holcomb Bridge Road., Suite 160, Norcross, GA 30092, (404) 409-7700.

April 23rd-26th, 1995 Salt Lake City, Utah, AWR Annual Spring Symposium - "Water Conservation in the 21st Century" - General Chairperson: J. Paul Riley, Utah State Univ., Logan, UT 84322-4110, (801) 750-2783.

June 25th-28th, 1995 Honolulu, Hawaii, AWR Annual Summer Symposium - "Water Resources, Environmental Hazards: Emphasis on Hydrologic and Cultural Insight to the Pacific Rim" (An International Symposium) - General Chairperson: William Back, U.S. Geological Survey, Reston, VA 22092, (703) 648-5856.

November 5th-9th, 1995 Houston, Texas, American Water Resources Association 31st Annual Conference & Symposium - "Advances in Development and Use of Models" - General Chairperson: John S. Grounds III, Bechtel, Houston, TX 77084, (713) 235-4921. ☎

"Statistics for Environmental Engineers"

Statistics for Environmental Engineers consists of over 40 short chapters, each dealing with a particular environmental problem, or statistical technique. Each chapter is organized around a specific case study, beginning with a brief discussion of the appropriate methodology, followed by an analysis of the case study example, and ending with a comment on the strengths and weaknesses of the approach. Case studies are drawn from censored data, detection limits, regulatory standards, treatment plant performance, sampling and measurement errors, hazardous waste, and much more.

Statistics for Environmental Engineers is available from Lewis Publishers, 2000 Corporate Boulevard, NW, Boca Raton, FL 33431, (800) 272-7737 (within the continental US) or (407) 994-0555 (outside the continental US).

Health, Eco-Research Chair in Environmental Risk Management, 13-103 Clinical Sciences Bldg., University of Alberta, Edmonton, Alberta T6G 2G3, CANADA, Phone: (403) 492-6807, Fax: (403) 492-0364; for further information on application procedures and deadlines.

GENERAL NEWS

NATO Science Division

The NATO Science Division has created a Priority Panel on Environment for the purpose of supporting interactions between scientists in NATO member countries and those in Cooperation Partner (eastern block) countries. The programs supported include Advanced Research Workshops (ARW) which are high level meetings of specialists for three to five days to discuss the state of the art in research on a given environmental problem; Advanced Study Institutes (ASI) which are short courses lasting from one to two weeks to provide high level knowledge exchange using leading scientists as instructors, collaborative research grants and linkage grants that supply small sums of money to promote cooperative research programs between scientists or groups in NATO and the CP and expert visits to support the travel costs for a single expert to visit a scientist in the CP countries.

Anyone who has reliable contacts with environmental specialists in one or more eastern block countries and who wishes to pursue funding under this program is invited to contact: Dr. Steve E. Hruday, Professor of Environmental

USNET Group for Environmental Engineering

Charles N. Haas, Betz Professor of Environmental Engineering, at Drexel University is in the process of setting up a USNET group for environmental engineering (with the assistance of a receptive host at Temple University) for the creation of a new list, ENVENG-L. The objective being to foster discussion of issues relating to environmental engineering education, research, and professional practice.

If you would like more information, please contact Professor Haas at haascn@dunx1.ocs.drexel.edu or Charles N. Haas, Betz Professor of Environmental Engineering, Drexel University, Philadelphia, PA 19104.

APPLICATION FOR MEMBERSHIP

in the
Association of Environmental Engineering Professors

Name _____

Official Title _____ Department _____

Business Address _____ Tel. _____

Home Address _____ Tel. _____

E-Mail _____ Fax _____

Applying for: Membership Status Rank: _____
Affiliate Status
Student Status

PLEASE ATTACH RESUME

Dues are payable to the association on a calendar year basis.
The AEEP annual dues payment, prorated according to the date of application, is shown below.

INITIAL DUES PAYMENT REQUIRED BASED ON RANK AND DATE OF APPLICATION

| RANK | 1 Jan. | 1 Apr. | 1 July | 1 Oct. |
|----------------------------|---------|---------|----------|---------|
| | 31 Mar. | 30 June | 30 Sept. | 31 Dec. |
| Professor | \$50.00 | \$37.50 | \$25.00 | \$12.50 |
| Associate Professor | 25.00 | 18.75 | 12.50 | 6.25 |
| Assistant Professor | 25.00 | 18.75 | 12.50 | 6.25 |
| Affiliate Member | 20.00 | 15.00 | 10.00 | 5.00 |
| Student Member | 15.00 | 10.00 | 5.00 | 5.00 |

Please return this form along with your dues to:

Edward J. Bower
Dept. of Geography and Environmental Engineering
The Johns Hopkins University
3400 N. Charles Street
Baltimore, MD 21218-2686

Enclosed are my AEEP dues in the amount of: US \$ _____

Signature _____

Date _____

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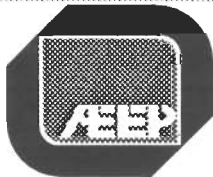
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Association of Environmental Engineering Professors

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