



# Newsletter

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OCTOBER, 1981

## PRESIDENT'S CORNER

In the current issue (as this column was being written) of **National Journal**, Lawrence Mosher raised a question of vital interest to AEEP members: "Will EPA's budget cuts make it more efficient or less effective?" How severe are the cuts? And where are they? Let me refresh your memory on this. The Reagan budget proposal for 1982 sought a 12 per cent cut from 1981 levels in EPA research and pollution control spending. EPA's R and D activities were targeted to suffer the most. In general, research will be cut 16 per cent in 1982, but some areas will be hit harder than others. Water quality and energy-related research is to be cut by 22 and 31 per cent, respectively. EPA Administrator Anne Gorsuch is reported to have directed her assistants to include an additional 20 per cent cut in putting the 1983 budget together.

During the summer, 27 members of the House Science and Technology Committee expressed serious concern over such cuts to the new EPA Administrator. "This dramatic change," the Committee members wrote, "may result in years of research investment being wasted and seriously impede the acquisition of information that is required for effectively implementing our environmental statutes and solving environmental problems such as acid rain, hazardous waste, air and water quality, groundwater contamination and energy pollution. Moreover, it would seriously weaken the foundation of information on which Congress and the nation must rely to make environmental policy decisions."

Changing directions briefly, many of us have been very interested in how the Administration would like to modify the Clean Air Act. At an August press conference, Anne Gorsuch spoke on this. "The air will continue to improve under the broad standards that we have adopted," the EPA Administrator said but then added "we will move toward our goals at a more reasoned pace." Auto emission standards would be eased but, she believed, this would not degrade air quality, in fact, air quality would improve anyway, since older automobiles which do not have to meet current rigorous standards will be gradually junked. Would that some other pressing environmental problems go away on their own like this.

From what has transpired, and from a variety of Washington and private-sector sources, the

Administration game plan has been to concentrate totally on the budget and tax cut in the first six months, and to stay well clear of domestic issues that could endanger the economic package. At EPA, several top assistants are yet to be appointed at headquarters, and most Regional Administrator slots are still unfilled. Now that the budget and tax bills have been moved successfully through the Congress and signed into law by the President, official Washington is on vacation. When this is over, action should begin on issues and programs.

When the pace does pick up, and programs take shape, and issues start to dominate, let's hope the environment is well served. There was much concern early on that Anne Gorsuch would, or must, allow all the substantive shots at EPA to be called by Interior Secretary Jim Watt who chairs the Cabinet-level council dealing with natural resources and the environment. EPA does not hold membership on the council.

Fortunately for the environment, and probably for EPA as well, Secretary Watt has generated enough problems to keep him busy at Interior. The White House is reported to be reviewing his policy decisions and, generally, to have reduced his latitude. The White House has let it be known that the President's view, and those of some key White House aides in the resources area, are not necessarily the same as Jim Watt's.

In closing, perhaps there could be some good news, too. Deputy EPA Administrator John Hernandez — an engineer, a respected academic, and strong advocate of good science and engineering — could very well be in a pivotal spot with respect to the nation's environment. Dr. Hernandez spoke on several topics to **National Journal**. A couple are of interest here. He expressed great concern that "...areas of personal choice ... of ordinary Americans ... have become dominated by agency (EPA) decisions, too many of which were not based on solid science." The degree of domination, and whether it is or is not too much, is an individual judgment for each of us, but the emphasis on good, solid science is something we can all support enthusiastically. EPA has supported a lot of good scientific research. There are certainly opportunities to improve EPA's research program, to assure that it produces "solid science", and to make better use of this good science in EPA's policy making and regulations. Dr. Hernandez also said, in reference to some EPA R and D efforts that would

be cut back: "If a project has merit, the work will go on. ... But industry should do it." We are all likely in close agreement that the private sector must assume a much more prominent role in the support of environmental R and D, including support of research at universities. But it must complement a sound, healthy, independent federal research program, not become a substitute.

Thanks to Jim Watt, environmental quality and natural resources management issues have remained prominently before the citizens of America. Numerous polls and surveys since the 1980 election and "mandate to get the federal government off people's backs and cut the federal budget" confirm the public's continuing concern about environmental degradation and health hazards, and their desire to see these tough problems dealt with in a meaningful manner and not put on the back burner and allowed to grow worse. Changes are certainly in order in the R and D area. Priorities can be reviewed and better focused; cost effectiveness can be further improved; better use can be made of the products of "solid science" supported by EPA, other agencies, and industry. In order to have good science on which to base equally good policy, though, there has to be as much effort devoted to assuring that good research can and will be supported as is devoted to budget cutting.

Ben Dysart

#### BY-LAWS REVISION

These proposed revisions of the **By-Laws** have been approved by the Board and will be voted upon by the membership at our meeting in Detroit October 5, 1981. The purpose of these revisions is to implement the new office of Past-President. This change will promote more continuity in the affairs of the Association.

- 5:02 Officers. The officers of the Association shall be the President, the Vice-President, the Secretary-Treasurer and **the Past-President**. All officers shall first be duly-elected Directors **except the Past-President who shall be an officer by virtue of previous office and may serve an additional year beyond his elected term.**
- 6:01 The Board of Directors shall consist of nine duly-elected Directors, including the President, Vice-President, and the Secretary-Treasurer as prescribed in Article VII, **plus the Past-President who shall serve as an ex-officio voting member if serving beyond his elected term.**
- 6:03 Terms of Office. Each Director shall be expected to serve for three years and may be re-elected for a second three-year term. No Director shall serve more than six years **except for terms served as Past-President beyond elected terms.**
- 7:01 Designation. The officers of the Association shall consist of a President, Vice-President, Secretary-Treasurer, **and a Past-President.**
- 7:02 Election. The officers of the Association shall be elected annually by the then serving and the Director-elect Board from among the Directors to serve during the term of office of the Officer being elected, under such procedures as the Board may determine; **EXCEPT THAT THE OFFICE OF PAST-PRESIDENT**

**SHALL BE FILLED BY THE OUTGOING PRESIDENT, WITHOUT ELECTION.** Vacancies arising from death or resignation shall be filled in a similar fashion, **EXCEPT THAT THE OFFICE OF PAST-PRESIDENT, IF VACATED, SHALL BE FILLED THROUGH APPOINTMENT BY THE PRESIDENT OR AN INDIVIDUAL WHO HAS PREVIOUSLY SERVED AS PRESIDENT.**

- 7:03 Terms of Office. The Officers shall be limited to two one-year terms in each office, **with only one term in each office per elected term on the Board.**
- 7:08 Duties of the Past-President. The Past-President shall assist the President in the performance of his duties; carry out special assignments from the President; and generally provide greater continuity to deliberations of the President and the Board.
- 9:02 Nominating Committee. There shall be a Nominating Committee consisting of three members **plus the Past-President**, and at least two of the members shall not be active Directors. **The Past-President shall serve as Chairman.** The Nominating Committee shall report at the Annual Meeting of the full membership and shall nominate at least six members for the vacancies on the Board. No person shall be nominated from an institution which already has a member who will serve concurrently with the nominee, and there shall be no more than one nominee from any school.

#### NEW NEWSLETTER EDITOR

Effective immediately Dr. Neil M. Ram will assume the duties of NEWSLETTER EDITOR. Items of interest for future editions should be sent to:

Dr. Neil M. Ram  
Department of Civil Engineering  
University of Massachusetts  
Amherst, Massachusetts 01003

#### RESEARCH CONTACT

Dr. Jan R. Dojlido is looking for US cooperation on research related to the following topics:

- Effects of Impoundments on Water Quality
- Self-purification of Rivers
- Thermal Pollution
- Non-point Source Pollution
- Water Quality Modeling
- Methods of Water and Waste Analysis
- Biodegradation of Organic Pollutants

If you would like to correspond with Jan his address is:

Dr. Jan R. Dojlido  
Assistant Professor  
Institute of Meteorology  
and Water Management  
Kolektorska 4  
01-692 Warsaw  
Poland

Proceedings have just been published of a conference designed to give environmental consultants and consulting engineers information on the environmental practices required by development funding agencies and their clients. World Bank officials told how the Bank selects and evaluates the consultants it uses on overseas projects. The U.S. Agency for International Development's top environmental officer discussed AID's assessment procedures. And the environmental officers of top European, American and Latin American firms gave examples—case studies—of how their projects have succeeded—and failed.

These topics were among many discussed at the first-ever conference on the "Environmental Practices of Consulting Firms Working on International Development Projects." Held March 24-25, 1981, in New York City, the conference was sponsored by the World Environment Center, the non-profit information and education service of the United Nations Association of the U.S.A., in cooperation with the World Bank and the United States Agency for International Development.

One participant wrote: "I want to say again how worthwhile I found the March 24-25 Conference. No other conference ... has been more interesting to me, or more valuable as a source of first-hand information about environmental experience and the lessons learned with large projects in developing countries."

The proceedings include:

- environmental requirements of the World Bank
- consultants and World Bank contracts**
- USAID and UN Environment Program on environmental assessment
- case studies of major development projects
- environmental problems of industrial development
- environmental management trends
- the influence of staffing on environmental assessment
- the borrower's experience and point of view
- sources of international environmental information.

Speakers included: Dr. James A. Lee, Director of the World Bank's Office of Environmental Affairs; Arnoldo Jose' Gabaldon, former Minister of Environment and Natural Resources, Venezuela; Albert C. Printz, Jr., USAID's Environmental Affairs Coordinator; and Wilson V. Binger, partner and Chairman of Tippetts-Abbett-McCarthy-Stratton, now President of the International Federation of Consulting Engineers (FIDIC).

The proceedings are comprised of: 16 papers with abstracts, biographies of the speakers, summaries of discussions, and a list of participants. The 298-page soft-cover book can be ordered for \$65 (plus \$5 for overseas postage) from the World Environment Center, Dept. P1, 300 East 42nd Street, New York, N.Y. 010017, U.S.A., or by calling 212/697-3232.

Opportunities to teach abroad and to attend seminars abroad are available under the Fulbright Teacher Exchange program of the U.S. Department of Education for the 1982-83 year.

Elementary and secondary school teachers, college instructors and assistant professors are eligible to participate in the academic year abroad teacher exchange program. Exchanges are currently conducted with the United Kingdom, Germany, France, Switzerland, Denmark, Canada, and New Zealand. Basic requirements are: U.S. citizenship, a bachelor's degree, and three years of teaching experience for one-year positions. As most of the positions are on an interchange basis, applicants must be employed currently.

As for the 1982 seminars, those eligible to apply include teachers of the classics, German, Italian, and world, Asian or Middle Eastern history and area studies, social studies supervisors, curriculum directors, teacher educators, and school administrators responsible for curriculum development. Basic requirements are: U.S. citizenship, a bachelor's degree, and two years of teaching experience.

Applications are due between September 1 and November 1, 1981. All programs are subject, of course, to the availability of Congressional appropriations.

A brochure and application should be requested in August from:

Teacher Exchange Branch  
Office of International Education  
**U.S. Department of Education**  
ROB-3, Room 3068  
Washington, D.C. 20202  
Telephone: (202) 245-9700

NSF

Edward H. Bryan was recently appointed to the position of Program Director for Water Resources and Environmental Engineering, Division of Civil and Environmental Engineering in the National Science Foundation's new Directorate for Engineering. In his prior assignment, he was responsible for management of the Foundation's program in Appropriate Technology in the Division of Intergovernmental Science and Public Technology.

Dr. Bryan has been with the National Science Foundation since December of 1972 as Program Manager in the Divisions of Environmental Systems and Resources, Systems Integration and Analysis, Advanced Environmental Research and Technology and Problem-Focused Research Applications. In 1979, he received the Foundation's award for Superior Accomplishment for his leadership and foresight in program management.

Dr. Bryan joined the National Science Foundation from a position as Director of Technical Marketing for the Ecology Division of Rexnord, Inc. in Milwaukee, Wisconsin. His industrial background and experience includes assignments in research, product development, market research, technical service and development with the Dow

Chemical Company in Midland, Michigan from 1953 to 1960. While with Dow, he was responsible for the development of synthetic media for biotreatment of domestic and industrial wastewaters (trademarked Dowpac formerly and now known as Surfpac) and polymeric coagulants for treatment of water and wastewater trademarked Purifloc. He served as Professor of Civil Engineering and as Director of Undergraduate Studies in Civil Engineering at Duke University in Durham, North Carolina from 1960 to 1970.

Dr. Bryan is a Registered Professional Engineer in Wisconsin and is certified as a Diplomate in the American Academy of Environmental Engineers. His B.S., M.S. and Ph.D. degrees in Civil and Environmental Engineering are from the University of Wisconsin in Madison where he was elected to membership in Tau Beta Pi, Chi Epsilon and Sigma Xi, and where he served as an Instructor in Civil Engineering from 1950 to 1953. He is a member of the American Society of Civil Engineers, the American Water Works Association, Central States Water Pollution Control Association, Federal Water Quality Association and the American Association for the Advancement of Science.

#### AEEP RESEARCH AWARDS

AEEP annually gives three awards for excellence in research. These are:

1. NALCO Chemical Award - \$2,500 - For the best doctoral thesis on **chemical research** in the area of **water and wastewater treatment**.
2. NALCO Chemical Award - \$2,500 - For the best doctoral thesis on **chemical research** in the area of **industrial (or combined) water and wastewater treatment**.
3. Engineering Science, Inc., Award - \$2,000 - For the best doctoral thesis **relevant to environmental engineering practice**.

Further information pertaining to these awards will appear in the next issue of the NEWSLETTER.

#### NEW EMERITUS MEMBERS

Bob Sanks and Gerry Rohlick were elected to emeritus membership at the Purdue meeting. Bob was nominated by Jon Liebman and Bruce Hanes and Gerry was nominated by Dick Speece. It is a distinct pleasure to welcome these men to a growing list of distinguished emeritus members.

If you know of others who are deserving of emeritus membership you are encouraged to nominate them. The procedure involves the submission of a brief summary of the contributions to the profession and to AEEP (this must come from a current AEEP member) and an indication of continuing interest and activity on the part of the individual nominated.

If you wish to make a nomination contact:

Dr. Donald T. Lauria  
Dept. of Environmental  
Engineering and Science  
University of North Carolina  
Chapel Hill, North Carolina 27514  
(919) 929-1161

#### WELCOME TO NEW AEEP MEMBERS

Donald D. Adrian  
Dept. of Civil Engineering  
Univ. of Massachusetts  
Amherst, MA 01003  
(413) 545-0685

Martin T. Auer  
Dept. of Civil Engineering  
Michigan Technological University  
Houghton, MI 49931  
(906) 487-2799

Peter M. Huck  
Dept. of Systems Engineering  
University of Regina  
Regina  
Saskatchewan S4S 0A2  
Canada  
(306) 584-4583

Byung R. Kim  
School of Civil Engineering  
Georgia Institute of Technology  
Atlanta, GA 30332  
(404) 894-2265

Richard R. Noss  
Dept. of Civil Engineering  
Univ. of Massachusetts  
Amherst, MA 01072  
(413) 545-0685

H. David Stensel  
Dept. of Civil Engineering  
University of Utah  
Salt Lake City, Utah 84112  
(801) 581-6813

Robert L. Street  
Dept. of Civil Engineering  
Stanford University  
Stanford, CA 94305  
(415) 497-4969

#### REGISTER OF PROGRAMS

The 1981 edition of the **Register of Environmental Engineering Graduate Programs** is now available from Ann Arbor Science Publishers. The regular retail price is \$49.95, however all AEEP members (except affiliate members) should receive a free copy. If you have not received your copy as of this date please contact

Dr. Donald T. Lauria  
Dept. of Environmental  
Engineering and Science  
University of North Carolina  
Chapel Hill, North Carolina 27514  
(919) 929-1161

We are all certainly indebted to Aarne Vesilind and Roger Minear for their work in making this edition of the Register possible.

## ASCE

A two-part conference on **Water and Energy: Technical and Policy Issues** will be held in the late spring of 1982. The eastern Conference will be held in Pittsburgh, Pennsylvania, May 23-26, 1982, and the Western Conference in Fort Collins, Colorado, June 27-30, 1982. The League of Women Voters, and the Council of State Governments, Government agencies and other technical organizations will cooperate in this venture.

The conference is aimed at an exchange of information between technical specialists, public interest groups, and those who have legislative or public policy responsibilities in the field of energy development and associated water resources issues. Separate conferences in the East and the West will allow for regional differences in political, legal, institutional, hydrologic, and environmental characteristics.

Papers are invited that address technical and policy issues such as:

- Water Requirements and Availability for Energy Development
- Ground and Surface Water Quality
- Hydrologic Impacts
- Water Transportation of Coal
- Coal Slurry Pipelines
- Water Conservation and Reuse
- **Regulatory Policies**
- Waste Management
- Synfuels
- Hydropower
- Cumulative Impacts
- Research and Development: Progress and Needs
- Public Involvement in Resource Planning
- Water Resource Allocation: Legal, Economic, and Political Considerations

Abstracts (200 to 400 words) should be sent by Oct. 1, 1981) to:

For Eastern Conference

Fritz Kilpatrick  
U.S. Geological Survey  
National Center, Mail Stop 414  
Reston, Virginia 22092  
(703) 860-6848

For Western Conference

Don Matchett  
Stone & Webster Engineering Corp.  
P.O. Box 5406  
Denver, Colorado 80217  
(303) 770-7700 Ext. 2244

Papers selected for inclusion in the program may be presented as part of a technical session or may be used as resource material in workshops or discussion groups.

The 14th Mid-Atlantic Industrial Waste Conference will be held at the University of Maryland, College Park, 27-29 June, 1982. Papers are invited on all aspects of industrial environmental engineering. Send ten (10) copies of a 500-1000 word abstract by November 20, 1981 to: Dr. James E. Alleman, Department of Civil Engineering, University of Maryland, College Park, Maryland 20742.

## AICHE

The Annual AIChE Meeting, to be held in Cleveland during August 1982, will carry a session entitled, "Automated Control and Monitoring of Industrial Water and Wastewater Treatment Systems." Prospective speakers are invited to submit a 200-400 word abstract by 20 November 1981 to: Dr. James E. Alleman, Department of Civil Engineering, University of Maryland, College Park, Maryland 20742.

## AICHE

The AIChE Summer National Meeting will be held in Cleveland, August 29-September 1, 1982 and will have 14 sessions on industrial water and wastewater treatment. **If you are interested in presenting a paper for the "Activated Carbon Systems for Industrial Waste Treatment" session, send a brief abstract to:**

Wm. Brian Arbuckle  
Environmental Engineering  
Sciences  
University of Florida  
Gainesville, FL 32611

by November 20, 1981.

## MEETINGS OF INTEREST

## IAWPR

The Advance Program and Invitation to Register for the 11th Conference of the International Association on Water Pollution Research to be held in Cape Town, Republic of South Africa, during March 29-April 2, 1982 now is available. Planned are: three parallel technical sessions, original research papers, poster presentations, technical excursions, full social program, accompanying persons program, pre and post conference tours, and four post conference seminars. Contact: The Secretary-Treasurer, IAWPR, Alliance House, 29/30 High Holborn, London WC1V 6BA, England.

## HAZARDOUS WASTES SYMPOSIUM

This symposium has been developed by Dr. Frederick G. Pohland of Civil Engineering at Georgia Institute of Technology with training grant support from the U.S. Environmental Protection Agency. The symposium will place major emphasis on the technical aspects of hazardous waste management including the impact of current regulatory issues and their implementation. Formal presentations will be made by individuals actively engaged in hazardous waste management within both the public and private sectors.

### SYMPOSIUM OBJECTIVES.

This symposium is intended to:

- Identify issues and problems related to hazardous waste management;
- Serve as a forum for information exchange on the technology of hazardous waste management; and
- Make available sources of information on hazardous waste management.

### WHO SHOULD ATTEND?

This symposium has been specifically designed for individuals seeking a foundation in current regulatory, managerial and operational aspects of hazardous waste analysis and control. Commercial, industrial and municipal personnel who have some responsibility for implementation of hazardous waste programs or providing supporting services will find it to be particularly advantageous. Since it is planned to present the symposium within a classroom-type setting, registration will be limited to a relatively small group. Therefore, early registration is recommended.

### REGISTRATION.

The symposium fee is \$35.00 which includes instructional materials and refreshments. Additional printed materials and other resource documents will be made available to augment many of the presentations. For more information contact:

Department of Continuing Education  
Georgia Institute of Technology  
Atlanta, GA 30332  
Telephone: (404) 894-2400

IAWPR

A Specialized Seminar on Anaerobic Treatment of Wastewater in Fixed Film Reactors sponsored by the International Association on Water Pollution Research will be held June 16-18, 1982 in Copenhagen, Denmark. Active researchers can apply before November 1, 1981 to participate with fees and accommodations paid. Observers are invited to apply before April 1, 1982. Contact Prof. Paul Harremoës, Department of Sanitary Engineering, Building 115 C, Technical University of Denmark, DK-2800 Lyngby, Denmark.

TWENTY-FOURTH INSTITUTE ON FEDERAL FUNDING  
TO BE IN WASHINGTON, DC ON OCTOBER 5-7, 1981

The Twenty-fourth Institute on Federal Funding will be in Washington D.C. on October 5-7, 1981 to assist

administrators, researchers, educators, project directors, finance officers and others to learn about new and available sources of support for a wide range of grants and contracts. Participants will be able to meet speakers and ask them specific questions.

The speakers, as top officials of 29 federal agencies, will also provide information about changed Congressional mandates for assistance and procurement, as well as the budget and governmental priorities for the coming months. Represented will be the Departments of Health and Human Services, Defense, Agriculture, Housing and Urban Development, Interior, Transportation, Labor, as well as the National Science Foundation, Office of Management and Budget, Environmental Protection Agency, and National Endowments for the Humanities and for the Arts.

A complete program and additional information may be obtained from Mrs. Donna Smith at National Graduate University, 1101 North Highland Street, Arlington, Virginia 22201, or 703/527-4800.

## ACADEMIC MARKET PLACE

**SCHOOL:** Clarkson College of Technology

**POSITION:** Assistant or Associate Professor

**QUALIFICATIONS:** Ph.D. in Engrg. Interest in water and wastewater treatment processes or water quality engineering

**RESPONSIBILITIES:** Research, undergraduate and graduate teaching

**APPLICATION DEADLINE:** Open

**CONTACT:**

Dr. Norbert L. Ackerman  
Dept. of Civil and Envr. Engrg.  
Clarkson College of Technology  
Potsdam, N.Y. 13676

**SCHOOL:** University of Iowa

**POSITION:** Assistant or Associate Professor

**QUALIFICATIONS:** B.S. in Engrg. (Preferably civil). M.S. and Ph.D. in environmental/sanitary engrg.

**RESPONSIBILITIES:** Research, undergraduate and graduate teaching

**APPLICATION DEADLINE:** Position open as of January 1, 1981

**CONTACT:**

Dr. Richard R. Dague  
Civil and Environmental Engineering  
The University of Iowa  
Iowa City, Iowa 52242

**SCHOOL:** University of Michigan

**POSITION:** Assistant or Associate Professor

**QUALIFICATIONS:** Ph.D. and interest in biological wastewater treatment and microbiological processes in aquatic systems.

**RESPONSIBILITIES:** Research, undergraduate and graduate teaching

**APPLICATION DEADLINE:** Position open as of January 1, 1981

**CONTACT:**

Prof. W. J. Weber  
181 Water Resources Engineering Bldg. 1-A  
The University of Michigan  
Ann Arbor, MI 48109

**Application for Membership  
in the  
ASSOCIATION OF ENVIRONMENTAL ENGINEERING PROFESSORS**

NAME \_\_\_\_\_

OFFICIAL TITLE \_\_\_\_\_ DEPARTMENT \_\_\_\_\_

BUSINESS ADDRESS \_\_\_\_\_ TEL. \_\_\_\_\_

HOME ADDRESS \_\_\_\_\_ TEL. \_\_\_\_\_

Applying for: Membership Status  (indicate rank), Affiliate Status

**P L E A S E   A T T A C H   R E S U M E**

Dues are payable in 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 April	1 July	1 Oct.
	31 Mar.	30 June	30 Sept.	31 Dec.
Professors	\$50.00	\$37.50	\$25.00	\$12.50
Associate Professors	25.00	18.75	12.50	6.25
Assistant Professors	25.00	18.75	12.50	6.25
Affiliate Member	10.00	7.50	5.00	2.50

Please return this form, along with your dues to:

Dr. C. P. Leslie Grady, Jr.  
School of Civil Engineering  
Purdue University  
W. LaFayette, IN 47907

Enclosed are my AEEP dues in the amount of: \$\_\_\_\_\_.

\_\_\_\_\_  
Signature Date

## OFFICERS

### PRESIDENT

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Department of Environmental Systems  
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Clemson University  
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(803) 656-3276

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