PRESIDENT'S CORNER

The membership meeting and the Board of Directors Meeting at the WPCF conference in Los Angeles were both well attended and accomplished their missions. Special thanks rev- 1ue Unit Secretary and Mike Saunders, editing members of the Board of Directors for their efficient service as Secretary-Treasurer and Past President over the past year. June Andrews, who continues on the Board as Past President, gave ymen's s service in planning and executing an aggressive program of membership development. We attended the year with 854 members and ended with 80, gaining 11 regular members, 4 new affiliates, 2 new britis and 9 new sus- plying members. We now have a total of 15 sustaining members in AEEP.

Eastman Textile Co.
Brown and Caldwell
Century Engineering
Engineering Science
GH&M Hill
Aires, Inc.
Culp Weaver Culp
Proctor & Gamble Co.
D. V. Purdum Associates
National Sanitation Foundation
Lewis Publishers, Inc.
Amoco Oil Company
PSG Environmental Services, Inc.
James M. Montgomery
Camp, Dresser, McKee

AEEP had a successful year in serving our members by support of programs in support of environmental engi- neering education:

• AEEP and AAECE, with support from NSF and Michigan Technological University, had a well attended Education Conference in July. Bob Ballou was commended by our Board for his work in organizing the conference, which in- cluded an excellent prepublication display of the new AEEP Computer Manual prepared by the Computer Software Committee under the chairmanship of J. D. Neiling. A conference report will be coming soon. About 190-195 at- tended the Conference, including 18 young faculty members who received travel support from AEEP and the Conference itself.

• Workshops were held at Purdue and the AWWA (Kansas City) and WPCF (Los Angeles) Conferences. The Workshop Planning Committee and the Workshop Presenters deserve our commendations.

• Dr. Don O'Connor served as our "Distinguished Lecturer" for 1986. He visited a number of schools and presented raw insights in modelling of water quality.

Our 1987, the Board of Directors will devote a major effort to developing a greater availability of funds for support of academic research in environmental engineering. Assum- ing that our $500 regular members are engaged in research

(Continued on page 2)

AEEP NEWS AND ANNOUNCEMENTS

AEEP Member Honored

AEEP is pleased to congratulate our past President, Dr. John F. Andrews, Professor of Environmental Sciences and Engineering at Rice University, was conferred Honorary Membership at the 13th Biennial Conference of the Interna- tional Association on Water Pollution Research and Control (IAWRPC) held in Rio de Janeiro, 17-22 August 1986. He was an honored in recognition of his long-term service as the U.S. Editor of Water Research, his extensive leadership activities in eight IAWRPC workshops, and his national and interna- tional expertise in water pollution research. He joins 12 emi- nent researchers from around the world who have been ac- cepted Honorary Membership, the Association's highest award, since IAWRPC was founded nearly 25 years ago. Mr. Bertil Hiewemar of Stockholm was accorded similar honors in 1986.

Special Sale:

- AEEP - Purdue Workshop Notes

Copies of the workshop notes produced for this year's AEEP - Purdue Workshop on Engineering the Bioline Environment are now being distributed through Purdue at a nominal cost of $10. These notes, articles, etc., (i.e., post, plastic-wrapped and "drilled" for 3-r1g binding) provide an excellent review of bioline morphology, growth characteristics, and related pro- cess design procedures.

Send your requests and appropriate checks made out to AEEP to the following address:

Professor James E. Allan
School of Civil Engineering
Purdue University
West Lafayette, Indiana 47907
(317) 494-7705
Presidenl's Corner

on a full-time basis and can successfully direct the work of 3 M.S. and 2 Ph.D. students. A reasonable average research budget might be developed as follows:

Research Funding Needed

P.I. $45,000 A.Y. Salary, 1/4 time A.Y. $11,250
2 mos. summer $10,000
3 U.S. students @ $8,800 C.Y. $30,600
2 Ph.D. students @ $110,000 C.Y. $226,000
Benefits, P.I. @ 25% $4,888
Equipment - Variable, of course $5,000

Current Expense

Supplies, 5 @ $50/box x 12 $15,000
Travel $2,000
Direct Costs $398,138
Indirect Costs @ 40% $159,255
Total Annual Research Budget $449,993 say $150,000

This means AEEP's kitty could be $300 x $1,000,000 or $45 million/year.

Do you still have your share? We need to work with and

forward any opportunity of expanding research efforts for

our program. NSF, of course, has significant funding in areas of

our expertise. EPA tends to have gaps and shorts and

chips emphasizes and we need to work hard to keep research

funds available for "unrelated proposers." We should all

support the development and funding of research capabilities in

AWWA, WPCF, and the American Public Water

Association. AWWA has been the AWWARF budget grows from a few

hundred thousand dollars per year to about $3 million this

year and is projected $10 million by 1998. AWWA research is

currently supported at levels of a couple hundred thousand

doed per year. WPCF is really just getting started.

At the "thinkers' session" of the National Council on Public
Works Improvements I recommended a research budget of $3 per

person per year—$50 million dollars, with the hopes that

cut, demonstration grants, and development grants. A

significant research support would be available for utilities.

Almately, AEEP is giving a Research Conference, hopefully

with NSF support. In late 1985 or early 1986 in

the Washington, D.C. area. Charles O'Malley is Chair of the

planning group. AEEP has recommended appointment of

James E. DeGallino as our representative on the AWWA,

Research Foundation's Public Council on Water Supply

Research. His appointment for a 3-year term begins

December 16, 1986. Frank DiGaliano and his Legislative

Analysis Committee have recently issued a report on "Pro-

tecting our Environment: The Need for Exploration Research"

just in time for our research emphasis in 1987.

We'll call on you for your help.

E. Robert Baumann
President

Bylaws Changed

The AEEP membership approved the bylaws change that split the office of secretary-treasurer into separate offices. The Board set the first term of the treasurer (David Stimmel) at one year and the first term of the secretary (David Lawler) at two years. Subsequent terms for both offices will be two years.

New Board Members and Officers

Jim Altemeier, Dave Stimmel and George Tchobanoglous have been elected to the AEEP Board of directors for 1987-89. In addition, at the October board meeting in Los Angeles, the AEEP Board of Directors elected new officers. They are:

President: E. Robert Baumann
Vice President: Richard G. Luftky
Secretary: Desmond F. Lawler
Treasurer: H. David Stimmel
Past President: John Andrews

Special thanks are extended to Bill Anshel, David Jenkins and Mike Saunders who are leaving the Board after three years of service. Bill served as treasurer and Mike served as President during their terms.

Remote Computer Network Linking

for AEEP - Environmental Engineering
Co-operators

by James E. Altemeier, Purdue University

As a means of promoting electronic interaction among our

Association's members, an experimental AEEP Network User

Group is now being formed. Membership is open to anyone

who has access to either the BITNET or APPANET networks

(b.e. if you use electronic mail at your school or location, you'll

probably have one or the other). Individuals interested in join-

ning this nationwide network and participating in its various

opportunities for software development, exchange should

send an initial "electronic" message to either of the following

Purdue addresses:

altemeier@cbecn.purdue.edu BITNET
altemeier@cbecn.purdue.edu APPANET

AEEP Members Honored

Dr. G. Lee Christensen, professor of civil engineering at

Villanova University, has received the 1988 American Society of

Civil Engineers (ASCE) Pacific Herberg Medal for his

research paper, "Specific Resistance Measurements: Methods and


Engineering.

Both he and the paper's co-author, Dr. Richard I. Dick,

a civil environmental professor at Cornell University, received

the bronze metal and certificate on October 29 at ASCE's

Annual Fall Convention in Boston.

Sponsored in 1928 by ASCE's Sectional Engineering

(Now Environmental Engineering) Division, the metal is named

for ASCE past president Ralph Herberg. The medal is given annually to ASCE members who publish

original papers on subjects such as water works, seivogage

works, drainage and refuse collection and disposal, or any

branch of environmental engineering that advances the pro-

fession or its body of knowledge.

In their paper, the researchers studied one aspect of a

costly, complex issue: treatment and disposal of sludge from

municipal and industrial wastewater systems.

From 1969-85, Lee was a member of the Board of Direc-

tors and Secretary-Treasurer of the Association of Environ-

mental Engineering Professors. Richard Dick is a former

president of AEEP.
Activated Sludge Program for PCs Available Free-of-Charge

Under a grant from Environment Canada, the Department of Environmental Systems Engineering at Clemson University has developed a user-friendly program for IBM/PC compatible microcomputers which allows simulation of activated sludge processes performing carbon oxidation, nitrification and denitrification, either alone or simultaneously in a single-sludge system. The program is based on the conceptual model developed by the IAWPRC Task Group on Mathematical Modeling for Design and Operation of Biological Wastewater Treatment. The user specifies the plant configuration, reactor sizes, all flow rates, the desired solids retention time, the kinetic parameters, and the time-dependent patterns of influent flows and concentrations. Default values are provided for the kinetic parameters to allow simulation of treatment of "typical" domestic wastewater. Output may be in either tabular or graphical format. The microcomputer must be equipped with either an IBM or a Hercules graphics card to use the graphics capability. The code requires a minimum of 128K RAM and operates on a PC DOS 2.0 or higher. Support is provided for an 8037 math coprocessor or enhanced computation speed. Anyone interested in the program may receive a copy and a user's manual free-of-charge by sending a double-sided, double-density, soft sector 5.25" floppy disc to:

Dr. C. P. Leslie Grady Jr.
Environmental Systems Engineering
501 Rhodes Engineering Research Center
Clemson, SC 29634-0919

Sabbatical in London?

For those considering a leave in London, Prof. David Jenkins of the University of California, Berkeley has a 3-bedroom apartment for rent (at 675.50 pounds sterling per month). The minimum rental period is 3 months. The apartment is located in Kilburn, 5 minutes walk from the Kilburn Underground Station on the Jubilee Line—a 15 minute ride from Central London. It is in a beautiful wide tree-lined street, close to shops and public amenities and with easy access to the American school near Regents Park. If you are interested, call or write David at:

11 Vale Close
Kensington, CA 90728
Tel. (415) 642-5397 or (415) 927-0072.

EPA Document

Have you your copy?

Environmental Protection Agency
Office of Research and Development
Technical Assistance Directory

If not, write to:

Regional Services Staff (RD-074)
Office of Research Program Management
Environmental Protection Agency
Washington, D.C. 20460

GENERAL NEWS

The first meeting of the Council is December 16, 1988. After that meeting, Jim plans to form a small subcommittee of AEEP members to provide assistance and advice to him. Any AEEP member interested in serving on the subcommittee, please contact Jim. Also, all AEEP members are encouraged to write Jim regarding their views and ideas regarding the Council and the Foundation.

Dr. James K. Edzwiddl
Department of Civil Engineering
University of Massachusetts
Amherst, MA 01023
Phone (413) 645-0645

Emeritus Members

It is requested that suggestions and nominations for Emeritus Member status be sent to AEEP President E. Robert Baumans. Recently, four new Emeritus Members have been named. They are Harold Wolf, Jack Neustadt, Jack Borchardt and Dale Carlais.
Engineering Foundation Conference

An Engineering Foundation Conference will be held in
Hannibal, N.H., 26 June to 3 July 1987, on SLUDGE TECHNOLOGY.
Theory and Practice of Dewatering. This conference, the second in a continuing series of conferences
on sludge technology, will focus on the theoretical as well as practical aspects of sludge treatment, with
emphasis on wastewater sludge dewatering. Individual sessions will focus on modeling of processes, particle/molecular interactions, polymer conditioning, industrial sludges and slimes, and research opportunities. Fayfel’s visitation topics related to sludge dewatering.

P. Arne Vostland
Professor and Chairman
Department of Civil and Environmental Engineering
Duke University
Durham, N.C. 27706

42nd Annual Purdue Industrial Waste Conference

West Lafayette, Indiana
May 12-14, 1987

SUGGESTED TOPICS:

LENGTH:
150 words or less

DEADLINE:
December 1, 1986

SUBMISSION:
Dr. John D. Watson, Associate Professor, Conference Co-Chairman

ADDRESS:
Purdue Industrial Waste Conference
School of Civil Engineering
Purdue University, West Lafayette, IN 47907

FOR INFORMATION CONTACT:
Cynthia S. Dalton, Conference Secretary
(317) 494-5194

In early December, the Review Committee will begin selecting papers from among the abstracts submitted. Every year far more papers are submitted than can be included. Papers having wide audience appeal and significant new technical information generally receive top priority. Please keep this in mind when selecting a subject and title for submission.

We urge you to mark your calendar; for attendance at the conference whether you submit a paper for presentation or not. Approximately 100 technical papers will be presented in six concurrent sessions. We look forward to seeing you at the most prestigious conference of its kind - the Purdue Industrial Waste Conference, May 12, 13, and 14, 1987.

ASCE 1987 National Conference on Environmental Engineering

July 7-9, 1987
American Dutch Resort Hotel
Lake Buena Vista, FL (Orlando)

For further information contact:
John D. Dietz, Conference Chairman
University of Central Florida
Civil Engineering Dept.
P.O. Box 3000
Orlando, FL 32816-0003
(305) 275-2841

University of Toronto
Institute for Environmental Studies
Department of Civil Engineering

2nd Annual Series of Workshops on Waste Management

Following successful workshops held in the spring of 1986, it is proposed to mount three further workshops on the subject of waste management in the spring of 1987. These workshops will feature three separate topics related to the whole question of waste management.

Jan. 19-23, 1987 - Design and Operation of Landfills
Feb. 16-19, 1987 - Design and Operation of Waste Incineration Facilities
Mar. 16-18, 1987 - Risk Analysis for Waste Management

Location will be in Toronto, venue to be decided

Registration Fee:
- January workshop - $550
- February workshop - $550
- March workshop - $450

Registrations will be limited to 40 persons. To receive further information please contact:
Dr. P.H. Johns
Institute for Environmental Studies
University of Toronto
Toronto, Ontario M5S 1A4
(416) 978-7078

The 6th World Congress on Water Resources

Water for World Development

The International Water Resources Association was established in 1972 as an international forum to promote interdisciplinary communication and cooperation among industries, business and social groups and professionals of diverse backgrounds. The basic mission of the organization is to focus on the following:

1. Policies and strategies for water resources development, conservation, control and protection;
2. Planning of multi-structure, multi-purpose and multi-source water resources systems; and
3. Management of water resources systems through the efficient operation and adjustment to evolving water demands.

(Continued on page 5)
Water Resources

The sixth world congress carries on these missions with papers from around the world and a large exhibition of equipment. A well-rounded program of technical and tourist site visits as well as many social functions will be available.

The conference will deal with Water for World Development.

- Policies and Strategies
- Planning
- Operation

Within these three themes, the following topics will be considered:

Water Resources Training; Climatic Impact; Energy and Water Development; Irrigation, Drainage and Agriculture; UN Water Declaration Decade; Water Management; Environment Quality; Water Law.

Presentations

Authors are invited to submit papers on any of the above topics. Only original and not submitted to other conferences. Authors are invited to submit papers on any of the above topics.

In addition to formal paper presentations, poster sessions will be held. A poster session is an informal stand-up talk presented to a passing audience. The poster authors present photographs or illustrations to attract an audience as well as to highlight the presentation.

Submission of Abstracts

Papers and posters presentation selection will be based on the submission of a 1,000-word abstract not including references. The abstract shall be written in English, French or Spanish of the Conference and typed single spaced on regular sized paper. Figures and tables may be included in addition to the 1,000-word text. The particular theme for which the abstract is submitted may be indicated or left up to the decision of the abstract review committee. Papers and posters may deal with theoretical, field or case studies.

For formal paper presentations at least one of the authors must be present at the conference for the final paper to be presented and published. Only selected abstracts from the poster sessions will be published. At least one author from a poster presentation must be present at the conference for the abstract to be published.

Address abstract to:

Abstracts Review Committee

WATER World Congress on Water Resources
University of Ottawa, 631 King Edward Avenue
Ottawa, Ontario K1N 6N5, Canada

Selection of Abstracts

All abstracts will be reviewed by a highly qualified team of engineers, physical and social scientists and other professionals in the respective areas of the topics.

Successful abstract authors will be notified in September, 1987.

Paper Submission

Special layout forms will be sent to successful authors for preparation of the final paper. A complete set of guidelines and rules for setting the paper will be sent along with the layout forms. The length of the final paper will not exceed 10 pages. Special layout forms and a guideline for the abstract for poster presentations will be sent to successful authors.

Guidelines for the poster presentation, including the space and hardware to be made available, will be sent to successful abstract authors.

The final paper or poster abstract must be received by January 31, 1988.

Registration fees of at least one author of a full paper or poster presentation must accompany the final paper or poster presentation abstract or have been received by the above date for the paper or poster abstract to be published.

Authors are expected to make their own arrangements for travel and conference fees.

The final paper and poster abstracts will be printed and bound for availability at the conference.

FACULTY POSITIONS AVAILABLE

Environmental Engineering: The Department of Environmental Engineering at Clemson University invites applications for a tenure-track position (rank level, full assistant or associate professor) in the area of mathematical modelling of environmental systems and pollution control processes. An earned PhD degree is required as is evidence of strong mathematical and modelling skills. Particular expertise is desired in pollutant transport modelling. Responsibilities include teaching graduate and some undergraduate environmental engineering courses, development of a strong, funded graduate research program, and other professional activities. Position to be filled by mid-August 1987. Interested individuals should submit an application letter, vitae and three references to Dr. T.M. Hainan, Professor and Head, Environmental Systems Engineering, Clemson University, Clemson, SC 29634-0919. Applications accepted until 1 February 1987. A position was filled at this time. Clemson University is an affirmative action, equal opportunity employer.

Asistant to Associate Professor of Environmental Engineering

Immediate opening and a tenure track position. Duties are undergraduate teaching plus freedom to conduct research. A Ph.D. is required with demonstrated specialization in environmental engineering. The Environmental Engineering program at New Mexico Tech is within the combined Mining, Environmental and Geological Engineering Department. Parsons with solid waste disposal experience or research are particularly suitable for this position. The faculty member is expected to interface with other departments and both the department and with Tech's strong departments in Hydrology, Chemistry, Atmospheric Physics and Biology. Person to Contact: Dr. George B. Grinold, Chairman, Department of Mining, Environmental and Geological Engineering.

New Mexico Tech

Socorro, NM 87801

Phone: (505) 835-5345
Environmental Engineering Program of the Department of Civil Engineering at the University of Massachusetts Amherst invites applications for a tenure-track position in Environmental Engineering commencing September 1987. Research interests should be in chemical or biological processes in water, wastewater, or hazardous waste treatment systems. Applicants must have an earned doctorate and be eligible for Professional Engineering Registration. The position is at the Assistant Professor level. Responsibilities include teaching at the undergraduate and graduate levels, conducting an active research program, and attending externally funded research. Individuals with a solid background in instrumentation methods, bioprocess technology, or groundwater management are encouraged to apply. The Civil Engineering Program is accredited by EAC/ABET. The University area is involved in research related to stormwater management, industrial pollution control and prevention, and particularly, an emerging inter-departmental program in biotechnology. To receive full consideration, applications should be received by January 1, 1987. The position requires an earned doctorate in engineering or a closely allied area. Good communication in both spoken and written English is required. Applicants should send a detailed resume, including publications, list of courses included in graduate program, and names, addresses, and telephone numbers of four references.

Dr. William H. Higier, Professor and Head
Department of Civil Engineering
University of Massachusetts
Amherst, Massachusetts 01003

The closing date for applications is 15 February 1987. The University is an Affirmative Action Equal Opportunity employer.

The University of North Carolina at Charlotte, Department of Civil Engineering, invites applications for a tenured-track position in the environmental-water resources engineering area. The position is at the Assistant Professor level and begins in August 1987. Responsibilities include teaching at the undergraduate and graduate levels, participating in ongoing research, and attending extensively funded research. Individuals with a solid background in instrumentation methods, bioprocess technology or groundwater management are encouraged to apply. The Civil Engineering program is accredited by EAC/ABET. The University area is involved in research related to stormwater management, industrial pollution control and prevention, and particularly, an emerging inter-departmental program in biotechnology. To receive full consideration, applications should be received by February 1, 1987. The position requires an earned doctorate in engineering or a closely allied area. Good communication in both spoken and written English is required. Applicants should send a detailed resume, including publications, list of courses included in graduate program, and names, addresses, and telephone numbers of four references.

Dr. Delia M. Weyer, Acting Chairman
Department of Civil Engineering
The University of North Carolina at Charlotte, North Carolina 28223

The University of North Carolina at Charlotte is an equal opportunity/affirmative action employer.

WELCOME TO NEW AEEP MEMBERS

Dr. Shankha K. Banerji
Civil Engineering Department
University of Missouri
Columbia, Missouri 65211
(314) 882-3619

Dr. Mang Sih Sin
Environmental Engineering Division
Asian Institute of Technology
GPO Box 2754
Bangkok 10203
THAILAND
(02) 5100-13

Dr. James K. Edgworth, Chairman
Environmental Engineering Search Committee
Department of Civil Engineering
University of Massachusetts
Amherst, Massachusetts 01003

The closing date for applications is 15 February 1987. The University is an Affirmative Action Equal Opportunity employer.
APPLYING FOR MEMBERSHIP
in the
Association of Environmental Engineering Professors

Name ______________________________

Official Title ____________________________ Dept. ____________________________

Business Address ____________________________ Tel. ____________________________

Home Address ____________________________ Tel. ____________________________

Applying for: Membership Status □ (indicate rank). Affiliate Status □

PLEASE ATTACH RESUME

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

<table>
<thead>
<tr>
<th>RANK</th>
<th>1 Jan.</th>
<th>1 Apr.</th>
<th>1 July</th>
<th>1 Oct.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>$50.00</td>
<td>$37.50</td>
<td>$25.00</td>
<td>$12.50</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>25.00</td>
<td>18.75</td>
<td>12.50</td>
<td>6.25</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>25.00</td>
<td>18.75</td>
<td>12.50</td>
<td>6.25</td>
</tr>
<tr>
<td>Affiliate Member</td>
<td>20.00</td>
<td>15.00</td>
<td>10.00</td>
<td>5.00</td>
</tr>
</tbody>
</table>

Please return this form along with your dues to:

Desmond F. Lawler
Department of Civil Engineering
University of Texas
Austin, TX 78712

Enclosed are my AEEP dues in the amount of: $ ____________

Signature ____________________________ Date ____________________________
OFFICERS

President
E. Robert Baumann
Department of Civil Engineering
Iowa State University
459 Engineering Annex
Ames, IA 50011
(515) 294-4975

Vice President
Richard G. Luthy
Department of Civil Engineering
Carnegie-Mellon University
Pittsburgh, PA 15213
(412) 578-9249

Treasurer
H. David Stensel
Department of Civil Engineering
University of Washington
Seattle, WA 98195
(206) 543-9358

Secretary
Desmond F. Lawler
Department of Civil Engineering
University of Texas
Austin, TX 78712
(512) 471-4595

Past President
John Andrews
Environmental Science & Engineering
P.O. Box 1692
Rice University
Houston, TX 77251
(713) 527-4025

Richard R. Noo
Editor, AEEP Newsletter
University of Massachusetts
Department of Civil Engineering
Amherst, MA 01003

DIRECTORS

James E. Alleman (1987-89)
Purdue University

Gary L. Amy (1985-87)
University of Arizona

John F. Andrews (1984-87)
Rice University

E. Robert Baumann (1986-88)
Iowa State University

Nicholas L. Clesceri (1985-87)
Rensselaer Polytechnic Institute

J. Charles Jennett (1985-87)
Clemson University

Desmond F. Lawler (1986-88)
University of Texas

Richard G. Luthy (1986-88)
Carnegie Mellon University

H. David Stensel (1987-89)
University of Washington

George Tochonanoglous (1987-89)
University of California at Davis