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Association Of
Environmental
Engineering
Professors

NEWSLETTER

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MARCH 1985

PRESIDENT'S CORNER

This issue of the *Newsletter* is distributed annually to personnel who are not members of AEEP but who are involved in Environmental Engineering with consulting firms, industries, professional associations, and regulatory agencies. The Association welcomes these individuals to its readership and invites them to participate in its workshops and seminars, to purchase its publications, and to join the Association.

It was an honor to be elected President for 1985 at the Winter Board Meeting and to be given the opportunity to direct, strengthen and expand the activities of the Association. Vern Snoeyink is to be congratulated on his year of service as President for 1984; his counsel will be invaluable as he serves as Past President in 1985. Other officers are John Andrews, Vice President for 1985, and Bill Batchelor, Secretary-Treasurer for 1985-86. Gary Amy, Nick Clesceri and Charles Jennett were installed as Board members for 1985-87. Lee Christensen has served the Association as Secretary-Treasurer for the past two years, while Jim Edzwald has served as Vice President, President and Past President. The Association acknowledges the guidance and direction provided by Lee, Jim and Paul Roberts as they served on the Board for the past three years.

After a year of study, the Board has adopted policies which alter Board meeting and election schedules. Since formation of the Association in December 1963, Board members and officers have been installed at the Winter Board Meeting in Washington, D.C. In addition to conducting Association business at this meeting, the Board has pursued educational and research interests of the Association with federal agencies, Congress, and professional associations. These activities have been rewarding to the Association and its membership and need to be continued. However, decreased availability of university funds for travel to Board meetings, increased travel costs, and increased demands on Association funds for partial support of Board travel expenses have created a major financial problem with the Winter Board Meeting. To address this problem, annual meetings of the full Board will be restricted to a Fall Board Meeting at the WPCF Conference and a Spring Board Meeting at the Purdue Industrial Waste Conference. The Winter Board Meeting will be replaced with a meeting of the Executive Committee in Washington, D.C., which will continue to provide an opportunity to pursue environmental matters with federal administrative and legislative groups. Coupled with the change in the meeting schedule, the Board initiated a policy which eliminated the use of Association funds for support of travel expenses of Directors for Board Meetings. In addition, the election of new Board members will now be conducted in the summer to allow for their installation and the election of new officers in October at the Fall Board Meeting.

(Continued on page 2)

AEEP: A Brief Description

AEEP is an all-volunteer organization which works to effectively represent Environmental Engineering academic programs and faculty and provide some activities and services to its 300-plus members. These include:

- *Policy statements* to the U.S. Congress on legislation affecting environmental engineering programs
- *Register of Graduate Programs* providing a comprehensive listing of Environmental Engineering graduate programs and their faculties
- *Workshops and seminars* on important new technology or teaching approaches and research needs
- *Enrollment survey* which includes numerical data on graduate enrollment trends in the profession
- *Teaching materials* such as the "Water Chemistry Laboratory Manual," "Environmental Engineering Unit Operations and Unit Processes Laboratory Manual," and "Aquatic Microbiology Laboratory Manual"
- *Membership Meetings* held at the annual WPCF Conference and the Purdue Industrial Waste Conference, as well as special sessions at the Annual AWWA Conference
- *Input to other organizations* including an AEEP delegation on the USANC for representation of the United States to the IAWPRC and an elected member on the board of directors of the AAEE
- *Research Awards* for doctoral dissertations in cooperation with Engineering Science Inc. and for outstanding research publications
- *Newsletter* published three times per year, and
- *Member involvement* in committee work.

AEEP members are generally on the faculties of the educational and research programs that have produced, and are producing most of the Environmental Engineers in practice today. An application for AEEP membership is included in this issue.

Expanded Distribution of AEEP NEWSLETTER

Once again the NEWSLETTER'S first issue of the new year is being distributed to personnel outside the AEEP who are involved in environmental issues. It is hoped that the expanded distribution of the NEWSLETTER will give AEEP increased visibility and will allow the association to inform a wider audience of our activities and accomplishments. Anyone wishing to submit articles of general Environmental Engineering interest to future issues should send the information to the NEWSLETTER editor.

The finances of the Association continue to be sound, as indicated in the Treasurer's report included in this issue. A slight decrease in the treasury has occurred annually for the past several years. With elimination of travel support for Board meetings and placement of Conference workshops on a fee basis to recover expenses, it is expected that the strain on the treasury will be eliminated and the present dues structure can be retained.

The committees of the Association have finalized plans on numerous activities for 1985 and others are being developed. The Education Committee has scheduled a workshop on anaerobic biotechnology at the Purdue Industrial Waste Conference and a seminar on coagulation chemistry at the AWWA Conference. A third workshop is being considered for the WPCF Conference. A task force has been developed, in conjunction with the American Academy of Environmental Engineers, to begin planning for an Environmental Engineering Education Conference. The Distinguished Lecturer for 1985 is Professor Heinrich Sontheimer of the University of Karlsruhe, FRG. He is presently on tour.

Members interested in participating in these and other committee activities of the Association are encouraged to write and indicate their interests.

The limited and declining availability of federal research funds for long-term basic and applied research and the declining emphasis given Environmental Engineering research both in intramural and extramural areas continue to be of concern to Association membership. In conjunction with the Winter Board Meeting, a delegation of Board members discussed these concerns with agency employees at EPA and with environmental staffs of several Congressmen and Senators. With the austere budget expected, dramatic changes appear to be unlikely. All Association members are encouraged to become familiar with the environmental staffs of their legislators and indicate their concerns in these areas.

F. Michael Saunders
President

AEEP NEWS AND ANNOUNCEMENTS

New Directors and Officers Elected

New Directors were recently elected by the membership to serve three-year terms from 1985 to 1987. They are Gary L. Amy of the University of Arizona, Nicholas L. Clesceri of Rensselaer Polytechnic Institute and J. Charles Jennett of Clemson University. Gary Amy is an Associate Professor of Environmental Engineering and has served AEEP most recently as the Co-Chairman of the Graduate Register Committee and Co-Coordinator of the 1983 seminar on corrosion at the AWWA Conference. Nick Clesceri is a Professor of Environmental Engineering and was the Co-Coordinator of the 1982 AEEP/NSF Conference on Research Needs and has served as the Chairman of the Research Committee. Charles Jennett is a Professor of Environmental Systems Engineering and Dean of the College of Engineering at Clemson University and is active in numerous professional organizations.

At the Winter Board Meeting on January 7, 1985 new Association officers were elected. F. Michael Saunders was elected President and John F. Andrews was elected Vice-President. Bill Batchelor was elected to a two-year term as Secretary-Treasurer. Vernon L. Snoeyink will serve as the Past President for 1985. Leaving the Board are G. Lee Christensen, James K. Edzwald and Paul V. Roberts. Special thanks are extended to these individuals for their service to the Association. In addition, thanks are extended to Vern Snoeyink as the 1984 President, Lee Christensen as the 1983-84 Secretary-Treasurer and Jim Edzwald as the 1984 Past President.

Nominations for AEEP Board of Directors

Please send suggestions for Board nominees to V.L. Snoeyink, Department of Civil Engineering, University of Illinois, 208 North Romine, Urbana, Illinois, 61801 by April 15, 1985. Note that AEEP is now operating on a new schedule of voting for new Board members before October and installing them at the October meeting which is held in conjunction with the WPCF conference.

1985 AEEP Distinguished Lecturer Tour

Professor Heinrich Sontheimer has been selected as this year's AEEP Distinguished Lecturer. He will be offering lectures on: (a) Evaluation of Effluents from Water Treatment Plants with Regard to Water Quality Problems, (b) GAC Filters in Water Treatment, and (c) Corrosion of Steel Pipes. Professor Sontheimer's itinerary and lectures will be:

- Mar. 11 Colorado State (lecture a)
- 13 Univ. of Washington, Seattle (c)
- 15 Univ. of California, Berkeley (b)
- 18 Univ. of Illinois (b)
- 20 Michigan Technological Univ. (b)
- 22 Syracuse Univ. (b)
- 25 Univ. of Massachusetts, Amherst (a)
- 27 Lehigh Univ. (c)
- 29 Pennsylvania State Univ. (b)
- Apr. 2 Clemson Univ. (b)
- 4 Texas A & M (a)

AEEP - AWWA Seminar Program

The AEEP Seminar at the Annual AWWA Conference in Washington, D.C. is scheduled for Monday, June 24, at 8:00 p.m. The topic is CHEMICAL ASPECTS OF THE COAGULATION PROCESS. The program is as follows:

1. Coagulant characteristics in their relationships with raw water quality - C. R. O'Melia
2. Chemical aspects of coagulation using salts of aluminum - B. A. Dempsey

For further information, contact B. Dempsey, who is this year's chairman.

B. Dempsey
Dept. of Civil Engineering
University of Missouri
Rolla, MO 65401
(314) 341-4498

AEEP Activities at Purdue

Workshop: The annual AEEP Workshop before the Purdue Industrial Waste Conference will be held on Monday, May 13, 1985 from 8:30 am to 5:00 (with a break for lunch). The three speakers addressing "Anaerobic Treatment Processes" will be: Richard E. Speece (Drexel Univ.), Wim Wiegant (The Agricultural University of The Netherlands), and Perry L. McCarty (Stanford Univ.). Registration fees for the workshop will be \$30 for AEEP members, \$90 for nonmembers, and \$10 for students. A flyer describing the workshop in more detail will be mailed shortly to all AEEP members. For more information contact:

James Alleman
School of Civil Engineering
Purdue University
West Lafayette, IN 47907
(317) 494-2256

Luncheon: The annual AEEP Luncheon at the Purdue Industrial Waste Conference will be held Tuesday, May 14, 1985 from 12:00 to 1:00 pm. The luncheon will be a cash buffet - no advance reservations will be taken. A short business meeting chaired by AEEP President F. Michael Saunders will follow the luncheon.

AEEP Register of Environmental Engineering Graduate Programs

The fifth edition of the AEEP Register of Environmental Engineering Graduate Programs is now available. The 627 page Register contains descriptions of 101 programs. Copies of the Register are available at a cost of \$15.00 plus \$3.00 postage for AEEP members and \$30.00 plus \$3.00 postage for non-members. Please use the order form on the last page of this NEWSLETTER.

AEEP Outstanding Publication Award

Nominations are solicited for the 3rd annual AEEP Outstanding Publication Award to be presented at the 1985 WPCF Conference in Kansas City. All members are encouraged to submit nominations of papers which demonstrate significant educational contributions and research accomplishments that have "stood the test of time." Nominations should be forwarded by April 10, 1985 to:

Dr. Joseph H. Sherrard, Co-Chairman
AEEP Awards Committee
Dept. of Civil Engineering
VPI&SU
Blacksburg, VA 24061

Availability of Thesis Listings

The listing of theses from the 1982-1983 academic year has been compiled and is available to the AEEP membership. Over 400 theses from 66 universities have been organized according to subject and university. This listing can be obtained by writing Richard Walters at the following address.

Dr. Richard Walters
Civil Engineering
University of Maryland
College Park, MD 20742

Engineering Science, Inc./AEEP Award Best Doctoral Thesis Award

The 1984 Engineering Science, Inc./AEEP Award for the Best Doctoral Thesis Relevant to Environmental Engineering Practice was given to Bruce Elliot Jones and his advisor, Professor Walter J. Weber, Jr., of the University of Michigan for his dissertation entitled "Fate of Toxic Organic Compounds in Activated Sludge and Integrated Activated Sludge/Carbon Treatment Systems." The award was presented by Dr. Davis Ford, Division Vice President of Engineering Science, Inc., at the October 1, 1984 AEEP Luncheon at the annual WPCF conference in New Orleans. Dr. Jones is in the center of the picture below, receiving his award from Dr. Ford, with Dr. Weber on the right.



Engineering Science, Inc./AEEP Award for the Best Doctoral Thesis Relevant to Environmental Engineering Practice

AEEP Members are invited to submit Ph.D. theses completed under their supervision during the 1984-1985 academic year (dated June 1, 1984-May 31, 1985) for competition for the above award. The award is a certificate and a \$1,000 prize for the Ph.D. Candidate and a certificate and a \$1,000 prize for the faculty research director. For a thesis to be eligible it must be completed by the above dates and one copy must be received by Mr. Jack Pratt, Engineering Science, Inc., 125 West Huntington Drive, Arcadia, California 91106, prior to June 15, 1985. The judging panel for the award consists of Prof. Perry McCarty, Stanford University, Prof. Walter J. Weber, Jr., University of Michigan, and a member from Engineering Science, Inc. Each thesis is 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 & Science	40
Clarity of Presentation (Organization)	10

The award will be presented at the AEEP Meeting to be held during the WPCF 57th Annual Conference in Kansas City, October, 1985.

AEE Certification

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

The candidates must meet the following AEE criteria:

1. BS 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.

The candidate applications will be reviewed to see that all criteria are met and then presented to the AEEP Board for approval. The Board approved applications will be submitted with a letter of transmittal from this society to AEE for consideration by the Academy Review Committee and Board.

Any active AEEP member in good standing who meets the above criteria will be 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 8 or more years experience in this field can apply directly to the Academy, and acceptance is conditional on a written and an oral examination. The Academy address is:

American Academy of Environmental Engineers
P. O. Box 269
Annapolis, MD 21404

Qualified AEEP members wishing to be sponsored as a nominee of AEEP or desiring more information should apply directly to the AEEP-AEE Trustee, N. Bruce Hanes, Department of Civil Engineering, Tufts University, Medford, MA 02155.

AEE considers applications only once a year. Application deadlines are:

- April 1 AEEP nominee applications received by Trustee
- April 8 Reviewed by AEEP Board
- May 15 Received by AEE

Richard A. Conway Receives ASTM Publication Award

Richard A. Conway, corporate development fellow for Union Carbide Corporation, South Charleston, West Virginia, is a 1984 recipient of ASTM's Charles B. Dudley Medal Award. The Charles B. Dudley Medal Award is granted for an outstanding contribution which has widely recognized impact on a particular field of ASTM interest and which has been documented in the ASTM literature. Conway and co-recipient B. Charles Malloy of Jones-Malloy Associates, Inc., Berwyn, Pennsylvania, received the award for co-editing ASTM Special Technical Publication (STP) 760, *Hazardous Solid Waste Testing: First Conference*.

Treasurer's Report

SUMMARY FINANCIAL STATEMENT 1984

Fund	Balance Forward (1-12-84)	Income	Expenses	Transfers	Closing Balance (1-2-85)
PUBLICATIONS	655.52	1,877.38*	365.56	0	2,167.34*
SAVINGS	20,721.80	1,415.22	4.38	4,370.21	17,762.43
GENERAL	1,483.55	19,362.77	23,428.11	4,370.21	788.42
office		0	1,746.19		
newsletter		0	1,899.29		
publications		868.59	5,924.26		
board mgt.		0	2,774.13		
dist. lect.		6,600.00	5,326.03		
workshops		0	3,547.77		
committees		0	318.32		
govt. act.		0	0		
dues (member)		10,559.18	0		
dues (to USANCO)		0	500.00		
awards		0	422.79		
labels		335.00	0		
miscellaneous		0	969.33		
TOTAL	22,860.87	21,655.37*	23,798.05	0	20,718.19*

Total worth January	1985	20,718
	1984	22,862
	1983	23,303
	1982	24,116

*These values are approximately \$900 low due to 1984 publications income being carried over into 1985.

Report on IAWPRC

AEEP is one of the five member organizations of the USA National Committee of the International Association on Water Pollution Research Control. The other member societies are ACS, AIChE, ASCE and WPCF. Each organization is represented on the National Committee by two delegates and two alternates, each appointed to a two-year term. For AEEP, the senior delegate rotates off of the National Committee at the time of the IAWPRC biennial conference. Fred Pohland, senior AEEP delegate and committee chairman for the past four years, rotated off at the 1984 Amsterdam biennial IAWPRC Conference. The current AEEP delegation consists of Jim Patterson (senior delegate), Tom Keinath (junior delegate and National Committee Secretary-Treasurer), Dave Jenkins (senior alternate) and Charlie O'Melia (newly appointed junior alternate). Dick Conway, representing ASCE was elected National Committee Chairman and Davis Ford, representing WPCF was elected vice-chairman at the National Committee meeting in Amsterdam.

At Amsterdam, Dick Englebrecht was reelected as President of IAWPRC. In addition, the IAWPRC Governing Board accepted a proposal from the USA National Committee to host the 1992 biennial conference in Washington, D.C. A small planning committee for the 1992 Conference has been established, headed by Jim Patterson. The next IAWPRC biennial conference will be held August 17-22, 1986, in Rio de Janeiro, Brazil. AEEP members interested in serving as reviewers of manuscripts submitted for the conference or as discussers of papers presented at the conference, should contact Tom Keinath.

Fred Pohland has been chosen Regional Editor for the IAWPRC journal *Water Research*. The National Committee has recently established an award for the best paper by a U.S. author in *Water Research*.

Membership & Dues Issues

Prospective New Members: Membership in AEEP is open to individuals of professorial rank in Environmental Engineering and related programs at educational institutions. Affiliated membership is open to individuals who have been or are associated with an academic program in Environmental Engineering and to professors in foreign universities. Individuals interested in becoming members or affiliates of AEEP should contact Professor B. C. Dysart III, Chairman, AEEP Membership Committee (Environmental Systems Engineering, Clemson University, Clemson, SC 29631) for a membership brochure and application materials. An application for membership is also included at the end of this NEWSLETTER.

Previous Members: Previous members of the Association, who for various reasons have allowed their membership to lapse, are encouraged to reactivate their membership by submitting a letter of application to the Membership Committee. No penalties are involved regarding payment of back dues for the years of lapsed membership. Current members are strongly encouraged to invite their colleagues who previously were members to join the Association.

Payment of Dues: Association dues for this year were to have been paid on or before 1 February 1985. As of that date, any member who has not paid the required dues for 1985 is listed as delinquent and will be dropped from the Directory and Association rolls at the end of the year if the dues are not paid. To avoid being dropped, delinquent members are encouraged to contact Professor Bill Batchelor, AEEP Secretary-Treasurer, immediately about payment of 1985 dues. Please contact the Secretary-Treasurer immediately to clarify your status. All members are encouraged to pay their dues in a timely manner and to contribute their support through voluntary service to and attendance at Association activities.

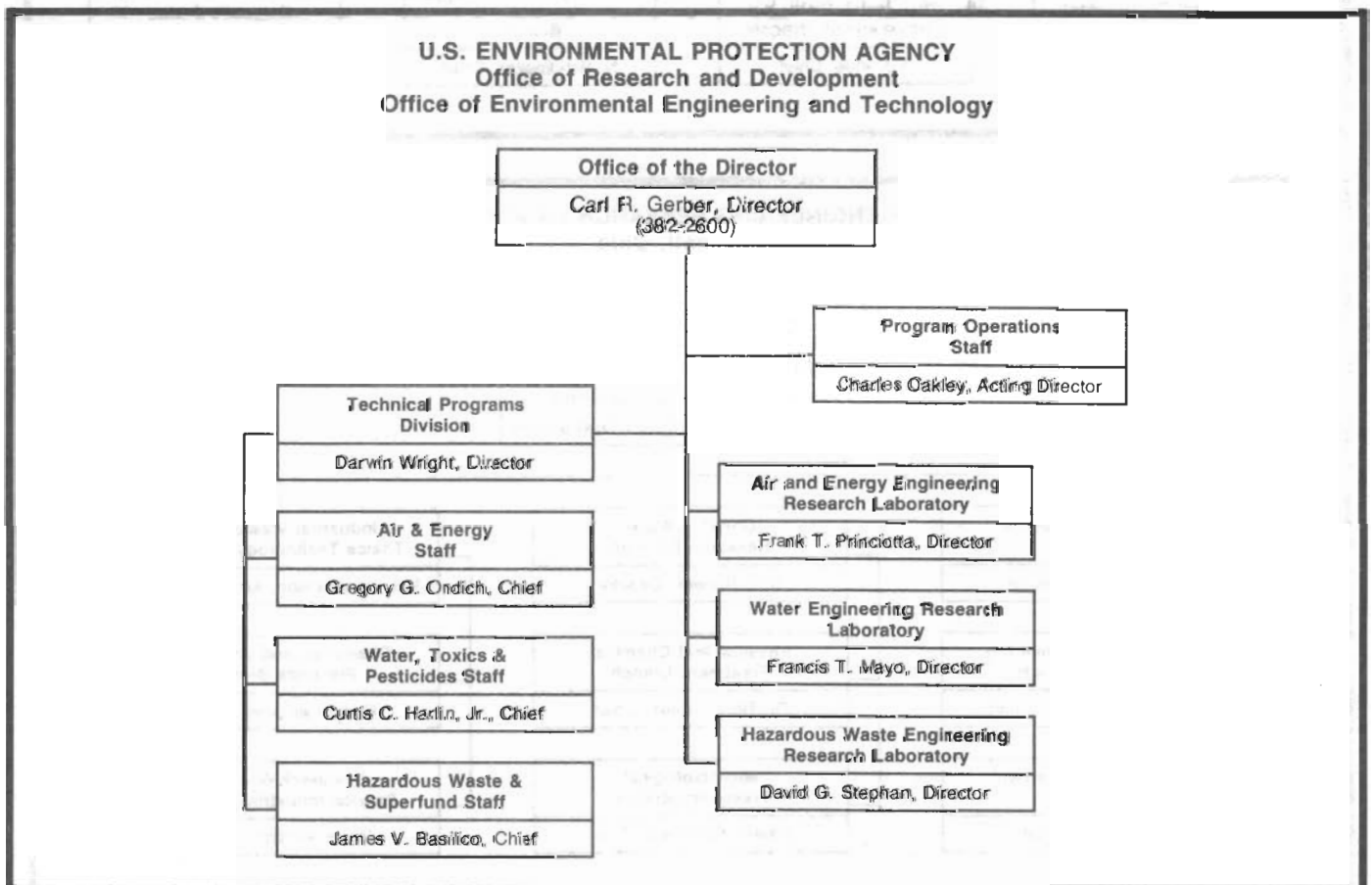
Deadline for September 1985 NEWSLETTER

Anyone interested in submitting articles for the September 1985 issue of the NEWSLETTER should do so no later than July 1, 1985. Articles should be mailed directly to the editor.

GENERAL NEWS

EPA Reorganization

The EPA has recently reorganized many of its activities in environmental engineering. The following diagrams show this reorganization and the individuals who are in charge.



HAZARDOUS WASTE ENGINEERING RESEARCH LABORATORY
Cincinnati, Ohio and Edison, NJ

Office of the Director
David G. Stephan, Director
William Cawley, Deputy Director

Office of Program Operations
W. Frietsch, Director

Management Operations Staff
T.B. Johnson, Chief

Technical Support Staff
W.W. Liberick, Chief

Alternative Technologies Division
C.J. Dial, Director

Land Pollution Control Division
R.D. Hill, Director

Thermal Destruction Branch
E.T. Oppelt, Chief

Chemical & Biological Detoxification Branch
A.J. Klee, Chief

Containment Branch
N. Schomaker, Chief

Releases Control Branch (Edison, NJ)
I. Wilder, Chief

WATER ENGINEERING RESEARCH LABORATORY
Cincinnati, Ohio

Office of the Director
Francis T. Mayo, Director
Louis Lefke, Deputy Director
Robert Bridges, Program Operations

Wastewater Research Division
J.J. Convery, Director

Systems and Engineering Evaluation Branch
Dr. Carl A. Brunner, Chief

Technology Assessment Branch
D.F. Bishop, Chief

Drinking Water Research Division
G.G. Robeck, Director

Physical and Chemical Treatment Branch
Dr. Robert Clark, Chief

Microbiological Treatment Branch
Edwine Geldreich, Chief

Industrial Wastes and Toxics Technology Division
A.G. Christianson, Acting Director

Chemicals and Chemical Products Branch
Clyde Dempsey, Chief

Manufacturing and Service Industries Branch
Roger Wilmoth, Chief

ASCE Produces Oxygen Transfer Standard

A Standard for the Measurement of Oxygen Transfer in Clean Water for measuring the rate of oxygen transfer from diffused gas and mechanical oxygenation devices to water has been developed by the ASCE Standards Program. The standard is applicable to laboratory scale oxygenation devices with water volumes of a few gallons as well as to full scale systems with water volumes typical of those found in the activated sludge wastewater treatment process. It is intended that this standard be used by engineers in the preparation of specifications for compliance testing and by manufacturers in the development of performance information. The standard is based on nearly four years of work by the ASCE Subcommittee on Oxygen Transfer Standards. A significant portion of the Committee's work was supported by grants from the U.S. Environmental Protection Agency. The standard is available from the ASCE Publications Fulfillment Department. List price \$16.

Tennessee Tech. Univ. Water Research Center

A Center of Excellence in management, utilization and protection of water resources has been formed by the State of Tennessee through Tennessee Technical University, Cookeville, TN. The Center, funded July 1, 1984, has an operating budget of \$1 million for its first year of operation. The Center is directed by Dr. V. Dean Adams.

CALL FOR PAPERS

American Institute of Chemical Engineers

Papers are being sought for the following sessions of the AIChE's Annual Meeting to be held in Chicago, Illinois, November 10-15, 1985:

- "New Technologies for Hazardous Waste Control"
- "Groundwater Contamination from Leaking Underground Storage Tanks"

Titles, the Proposal-to-Present form, and a 300-1000 word extended abstract should be sent to:

Prof. Robert W. Peters
Environmental Engineering
School of Civil Engineering
Purdue University
West Lafayette, IN 47907
(317) 494-2191

Papers are also sought for the session entitled "Emerging Techniques for Heavy Metal and Organic Separation." Titles and Proposal-to-Present form should be sent to:

Dr. B. M. Kim
General Electric Company
Corporate Research and Development
Schenectady, NY 12301
(518) 385-8824

Titles and abstracts should be submitted by April 10, 1985. If accepted, final manuscripts will be due by September 1, 1985.

Third International Conference on Ecology and Environmental Quality

The Israel Society for Ecology and Environmental Quality Sciences invites authors to submit papers for presentation at the above conference to be held at the Hebrew University of Jerusalem, Jerusalem, Israel, in June 1986. The conference program will include subjects under the broad heading of Ecology and Environmental Quality. Completed papers, no longer than 10 pages, single spaced, are due January 31, 1986. Authors interested in submitting papers are requested to write to the society beforehand, mentioning the title of the planned paper, to receive a copy of the "Instructions for Authors." For further information contact:

Israel Society for Ecology and Environmental Quality
Science
The Hebrew University of Jerusalem
P.O. Box 1172
Jerusalem, ISRAEL

MEETINGS

Water Supply and Sanitation for Developing Countries

The Department of Civil Engineering at the University of Ottawa will be offering a 3 day intensive course on "Water Supply and Sanitation for Developing Countries" from May 13-15, 1985. The course, being offered for the third time, will cover the emerging low cost, renewable energy technologies and consider economic and socio-cultural aspects of technology implementation. The cost of the course is \$350 (Canadian). The course is to be given by a multidisciplinary team of consultants, professors and government personnel with overseas experience. For further information, please contact:

Dr. Ron Droste
Water and Sanitation Course
Department of Civil Engineering
University of Ottawa
Ottawa, Ontario, Canada K1N 9B4
(613) 231-3348

Scale-up of Water and Wastewater Treatment Processes

The objectives of this symposium are to present and examine information concerning how laboratory and pilot scale water and wastewater treatment unit operations and processes can be successfully translated to prototype design and application. Discussions will also be directed at developing methods for transferring process operation problems experienced at full scale to laboratory scale for evaluation and development of appropriate solutions. The conference will be held June 4-6, 1985 in Heidelberg, Germany. For additional information, please contact:

Dr. N. W. Schmidtke
Norbert W. Schmidtke and Assoc. Ltd.
159 Frederick Street
Kitchener, Ontario
Canada N2H 2M6
Tel. (519) 774-5931

Management Strategies for Phosphorus in the Environment

This conference, to be held July 1-4, 1985 in Lisbon, Portugal, will deal with the control of phosphorus in the environment with particular emphasis on wastewater treatment and effects on the receiving environment. For more information contact: Phosphorus Conference Secretariat, Dr. N. W. Schmidtke, c/o Tektran International, 159 Frederick St., Kitchener, Canada N2H 2M6.

IAWPRC Specialty Conferences and Workshops

The International Association on Water Pollution Research and Control announces the following specialized conferences and workshops that are to be held during 1985:

ARCTIC WATER POLLUTION RESEARCH: APPLICATIONS OF SCIENCE AND TECHNOLOGY. Yellowknife, Northwest Territories, Canada; 28 April - 1 May 1985; *Contact:* Mr. K. Charbonneau, Conference Services Office, National Research Council of Canada, Montreal Road Laboratories, Ottawa, Canada, K1A 0R6.

INSTRUMENTATION AND CONTROL OF WATER AND WASTEWATER TREATMENT AND TRANSPORT SYSTEMS. Houston and Denver, USA; 27 April-4 May 1985; *Contact:* Prof. J. F. Andrews, Department of Civil Engineering, Rice University, Houston, Texas 77251.

ENVIRONMENTAL RISK ASSESSMENT OF CHEMICALS—FATE AND EFFECTS OF CHEMICALS IN THE ENVIRONMENT. Toyko, Japan; 28-30 May 1985; *Contact:* Prof. S. Matsui, Faculty of Engineering, Kanazawa University, 2-40-20 Kodatsuno, Kanazawa 920, Japan.

ACID PRECIPITATION: WATER QUALITY AND CONTROL AND HUMAN HEALTH. Uppsala, Sweden; 14-15 August 1985; *Contact:* Dr. B. Hultman, VAV, Regeringsgatan 86, S-111 39, Stockholm, Sweden.

MODELING OF BIOLOGICAL WASTEWATER TREATMENT. Copenhagen, Denmark; 28-30 August 1985; *Contact:* Prof. M. Henze, Department of Environmental Engineering, Building 115C, Technical University of Denmark, DK-2800, Lyngby, Denmark.

FACULTY POSITIONS AVAILABLE

California State University, Sacramento

Applications and nominations are invited for the position of Associate Dean for Academic Programs, School of Engineering and Computer Science. Duties include planning and coordinating the School's undergraduate and graduate programs, developing industrial consortia and outreach programs, and providing administrative support for the School's interdisciplinary academic programs. An earned doctorate in Engineering or Computer Science is required with adminis-

trative experience in an Engineering School preferably as Department Chair. Applications and nominations should be sent to:

Dr. Donald H. Gillott, Dean
School of Engineering and Computer Science
California State University, Sacramento
6000 J Street
Sacramento, CA 95819

Deadline for applications is May 1, 1985; the new Associate Dean will commence work at CSUS on August 15, 1985. California State University, Sacramento is an Equal Opportunity Employer.

University of Delaware

The Department of Civil Engineering of the University of Delaware is seeking applications for a faculty position in Water Resources and Hydrology at the assistant professor level. The position, which will become available on September 1, 1985, requires teaching at graduate and undergraduate levels in fluid mechanics and hydrology and active involvement in research. Specialty areas of interest include: groundwater and surfacewater hydrology and hydraulics, groundwater contamination, and numerical methods for groundwater and surfacewater analyses. Send applications to Dr. N. Kobayashi, Chairman, Search Committee, Department of Civil Engineering, University of Delaware, Newark, DE 19716, no later than March 31, 1985. The University of Delaware is an affirmative action/equal opportunity employer.

APPLICATION FOR MEMBERSHIP in the Association of Environmental Engineering Professors

Name _____

Official Title _____ Dept. _____

Business Address _____ Tel. _____

Home Address _____ Tel. _____

Applying for: Membership Status (indicated 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

RANK	1 Jan. 31 Mar.	1 Apr. 30 June	1 July 30 Sept.	1 Oct. 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:

Benjamin C. Dysart III
Environmental Systems Engineering
Clemson University
Clemson, SC 29631

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

Signature _____

Date _____

WELCOME TO NEW AEEP MEMBERS

Dr. Jeffrey H. Greenfield
 Civil Engineering Department
 The University of North Dakota
 Box 8115, University Station
 Grand Forks, North Dakota 58202
 (701) 777-3562

Mr. Gary S. Logsdon
 U.S. Environmental Protection Agency
 25 West St. Clair Street
 Cincinnati, Ohio 45268
 (513) 684-7345

ASSOCIATION OF ENVIRONMENTAL ENGINEERING PROFESSORS

Attn: Dr. Desmond F. Lawler
 Department of Civil Engineering, ECJ 8.6
 The University of Texas at Austin
 Austin, Texas 78712

The publications and tapes listed below are available from AEEP. Prepayment must accompany all orders. Please forward a check or money order made payable to AEEP to the above address.

Item #	Title	Member Price	Non-member Price	Quantity	Amount
1	Environmental Engineering Unit Operations and Unit Processes Laboratory Manual (Ed.: O'Connor) (Rev. 1984)	\$10.00	\$20.00		
2	Aquatic Microbiology Laboratory Manual (Cooper, et al)	\$ 7.00	\$ 7.00		
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