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AAPSE

NEWSLETTER

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Vol. 4, No. 3

April, 1969

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MESSAGE FROM THE PRESIDENT

After a slow start (about half of our Board Members contracted Hong Kong flu at our December Board meeting in Washington), our Committees are appointed and AT WORK. The original Committee List has been corrected, streamlined, and included in this NEWSLETTER. Committee assignments are spelled out briefly. Obviously, the committees need the help and guidance of all AAPSE members if we are to make progress. IF YOU FAIL to communicate with us, YOU FAIL -- and so does AAPSE.

Our active committees have already initiated the following:

Arrangements Committee:

Purdue meetings scheduled as outlined elsewhere in this Newsletter.

Education Committee:

What should be our "Druthers" on Training Grant, Research Fellowship, Research Grant policies? The committee is putting together a report NOW! Have you any input to make NOW? Possible items:

1. How do we handle Research Fellowship applications when we have never seen the candidate to develop a meaningful research plan?
2. Should traineeship support be possible for a second year by the new school if the trainee switches schools for Ph.D. study?
3. What is a reasonable time for an agency to review and report on research grant applications?

Education Resources Committee:

Have you completed your updated Register information for your school? New REGISTER forms are in the mail.

Newsletter Committee:

This Newsletter is the first by our new committee.

Legislative Analysis Committee:

Presently establishing a Washington representative relationship to help us pinpoint our efforts in most effectively advocating our position regarding specific pieces of legislation. For example, HR-7516 was introduced March 10, 1969 by Cramer (Florida) and 9 others to authorize \$25,000,000/year to train Sewage Plant Operators to the B.S. level. Hm! Tsk Tsk.

Seminar Committee:

Don't miss the Seminar on "Teaching of Microbiology to Sanitary Engineers" at Purdue on May 5.

Workshop Committee:

Plans are complete for the 1969 Workshop; **planning** is underway for the 1970 Workshop. Consideration is now being given to the topic of "Consulting Engineering and Design." How are consulting firms organized and managed to produce economical, technically sound design?

Summary:

Many members are active on many committees. If we have missed giving you a chance to contribute in the area of your current interest, let us know. AAPSE was formed to ENHANCE COMMUNICATION:

Between AAPSE members

Between member and his University

With government

Yes, and particularly with students.

Have you communicated lately?

COMMITTEE ASSIGNMENT FOR 1969

Arrangements Committee

Don E. Bloodgood, Chairman
Joe Malina, Vice-Chairman
J. A. Borchardt
A. A. Cannella
W. O. Pipes
R. E. Selleck

Arrangements for Meetings

- a. Purdue Conference
- b. WPCF - Dallas
- c. Washington, D. C.
- d. Workshop site evaluation

Audit Committee - audit financial records and report at Purdue meeting

R. L. Sanks, Chairman
R. J. Kipp, Vice-Chairman
L. W. Canter

Awards Committee - review criteria and Board policy for selecting awardees, recommend any modification deemed desirable (Report at Dallas meeting)

J. W. Clark, Chairman
L. G. Rich, Vice-Chairman
D. E. Bloodgood
D. A. Okun
R. E. Selleck
R. O. Sylvester

Education Committee - (1) serve as AAPSE contact with educational personnel of FWPCA, PHS, etc.
(2) prepare an AAPSE report on Training Grant "Druthers" (AAPSE preference for training policy etc.). (Draft for Purdue, final report for Dallas meeting)

R. C. Loehr, Chairman
R. S. Engelbrecht, Vice-Chairman

N. B. Hanes
P. A. Krenkel
H. S. Smith
R. F. Christman
P. W. Purdom

Educational Resources Committee - update register and associated studies as planned

Dale Carlson, Chairman
G. H. Dunstan, Vice-Chairman
W. J. Kaufman
R. S. Engelbrecht
C. W. Randall
H. N. Myrick
A. J. Rubin

Eligibility Committee - review and interpret periodically the constitutional provisions for membership. Consider specific membership applications when eligibility is questioned.

J. T. O'Connor, Chairman
D. W. Hendricks, Vice-Chairman
R. I. Dick
R. R. Dague

Legislative Analysis Committee - (1) collect, evaluate, and recommend distribution of legislative information
(2) recommend, plan, and implement Board or Officer appearance at appropriate Legislative Hearings

Warren Kaufman, Chairman
E. F. Gloyna (Board Contact)
J. A. Borchardt (Board Contact)
R. C. Loehr
B. B. Ewing
William A. Drewry

Membership Committee - promote active membership in AAPSE

R. R. Dauge, Chairman
A. J. Rubin (Ohio State)
D. W. Hendricks (Utah)
R. M. Jordan (Colorado)
P. H. Dones (Toronto)
F. E. Woodward (Maine)
J. W. Klock (Arizona)
R. O. McCaldin (Florida)
W. A. Drewry (Tennessee)

Newsletter Committee - edit and publish a regular (quarterly) newsletter of AAPSE programs and activities

J. H. Austin, Chairman
K. D. Kerri, Vice-Chairman
John Andrews
J. A. Borchardt

M. Wayne Hall
P. H. Jones
Ed Thackston
R. G. Spicher

Nominating Committee - propose a slate of members for election to the Board

1 B. B. Ewing, Chairman
W. M. McLellon
D. R. Washington
B. B. Berger
W. W. Eckenfelder

Research Committee - continue to completion program initiated in 1968

W. J. Weber, Jr., Chairman
D. J. O'Connor, Vice-Chairman
J. F. Andrews
J. A. Borchardt
W. F. Echelberger
B. B. Ewing
W. J. Kaufman
F. G. Pohland

Relations with USA National Committee - coordinate AAPSE activities with USA National Committee, guide our representatives, etc.

P. A. Krenkel, (1967-70) Chairman
E. A. Pearson, (1967-70) Vice-Chairman
R. I. Dick (1967-69)
W. W. Eckenfelder (1967-69)
Walt Weber (1969-71)
E. F. Gloyna (1969-71)

Visiting Lecturers Committee - arrange for lecture tour for our outstanding foreign visitor of the year

D. R. Washington, Chairman
Joe Malina, Vice-Chairman
R. I. Dick
G. W. Heinke
F. J. Agardy
E. A. Pearson

Seminar Committee - arrange program for 1-day seminars at meetings attended by AAPSE members

- (1) prepare packet of problems, syllabuses for attendees
- (2) hold seminars at Purdue and WPCF (Dallas) meetings
- (3) suggested topics
 - (a) How we teach engineering design!
 - (b) Microbiology for Sanitary Engineering
 - (c) Pilot plant nuts and bolts
 - (d) Research management
 - (e) Stream and Estuarine analysis

R. F. Christman, Chairman
John Pfeffer
R. R. Dague
Walter Johnson
J. L. Cleasby
Wayne Echelberger
A. J. Rubin
C. E. Burkhead
George Hanna

Workshop Committee - plan and conduct 1969 workshop, set up plans for 1970 workshop. Suggests 1970 topics:

- (a) Analytical Methods (Skrinde?)
- (b) Use of Teaching Aids
- (c) Consultants Approach to Design (Cleasby, Scherfig, Pipes)

1969 Workshop

J. F. Andrews, Chairman
E. L. Thackston, Co-Chairman
W. W. Eckenfelder
D. R. Washington
W. A. Weers
E. J. Middlebrooks
W. M. McLellan
R. W. Hann, Jr.
J. D. Westfield

1970 Workshop

W. O. Pipes, Vice-Chairman
J. L. Cleasby
K. H. Mancy
F. G. Pohland
Jan Scherfig
R. T. Skrinde

Publications Committee - develop and provide a central depository for AAPSE publications, provide standard format covers, etc. for Register revision, Workshop syllabus, etc.

J. F. Malina, Chairman
John O'Connor
J. F. Andrews
D. A. Carlson
J. H. Austin
J. L. Cleasby

**DR. DOWNING COMPLETES FIRST
AAPSE DISTINGUISHED FOREIGN LECTURER TOUR**

Dr. A. L. Downing, Director of the Water Pollution Research Laboratory in England, was AAPSE's first Distinguished Foreign Lecturer. In this capacity, he visited six universities to lecture on work underway at the British Laboratory.

Dr. Downing's visit was a part of the Visiting Lecturer Committee's activities to facilitate communication with foreign engineers and scientists. Dr. Downing visited the University of California, the University of Michigan, the University of Illinois, the University of Texas, the University of North Carolina, and Manhattan College during a two-week tour in March. Cost of the tour was shared by the participating Universities.

The first Distinguished Foreign Lecturer Tour was organized under the chairmanship of Richard Dick. The Visiting Lecturer Committee, who's present chairman is Don Washington, plans to continue the program of AAPSE Distinguished Foreign Lecturer Tours.

NEW AAPSE MEMBERS

Recent new members in AAPSE include:

John L. Cleasby
Professor of Civil Engineering
Civil Engineering Department
Iowa State University
Ames, Iowa

Gary W. Heinke
Asst. Prof. of Civil Engineering
Department of Civil Engineering
University of Toronto
Toronto, Ontario, Canada

William A. Drewry
Assoc. Prof. of Civil Engineering
Perkins Hall
University of Tennessee
Knoxville, Tennessee

Philip H. Jones
Assoc. Prof. of Civil Engineering
Department of Civil Engineering
University of Toronto
Toronto, Ontario, Canada

Millard W. Hall
Asst. Prof. of Civil Engineering
346 Boardman Hall
University of Maine
Orono, Maine 04473

Franklin E. Woodward
Asst. Prof. of Civil Engineering
Department of Civil Engineering
University of Maine
Orono, Maine

AAPSE now has 101 members who are on faculties at 57 different universities.

EDUCATIONAL NEWS

PRAGUE CONFERENCE

The Fourth International Conference on Water Pollution Research will be held April 21-25, 1969. Several AAPSE members will be taking part in the program. Information on travel to the conference can be obtained from:

Dr. Franklin J. Agardy
Department of Civil Engineering
San Jose State College
San Jose, California 95114

SEMINAR AT PURDUE

The seminar, on teaching of microbiology for sanitary engineers, will be held at 3:00 PM on Monday, May 5, 1969. A panel of five will discuss the content and location of such courses and discussion will be invited from the floor. An announcement of location and speakers will be mailed to all members at a later date. The seminar will be chaired by Ray Abernathy of Clemson University who would appreciate input from any members. See page 9 for more details.

AAPSE WORKSHOP

The Fourth Annual Workshop on Applications of Systems Analysis in Sanitary Engineering will be held 25-27 June, 1969 at the Ocean Forest Hotel in Myrtle Beach, South Carolina. You should have received your application form for this important meeting by this time. If you have not, contact

John F. Andrews
Workshop Chairman
Environmental Systems Engineering
Clemson University
Clemson, South Carolina 29631

for more information and registrations forms. See page 10 of the Newsletter for an outline of the program.

NEW ASSISTANT SECRETARY
FOR WATER QUALITY AND RESEARCH

Secretary of the Interior Walter J. Hickel has appointed Mr. Carl L. Klein to be Assistant Secretary for Water Quality and Research. Mr. Klein was formerly a representative of the Illinois Legislature and was chairman of the Illinois Water Pollution and Water Resources Commission, a legislative fact-finding commission. A resident of Chicago, Mr. Klein is a graduate of De Paul University Law School.

DOMINICK NAMED HEAD OF FWPCA

On March 13, Secretary of the Interior Walter J. Hickel announced the appointment of David D. Dominick, 32 year old graduate of the University of Colorado Law School as Commissioner of the Federal Water Pollution Control Administration. For the past two years, Dominick has been legislative assistant to Senator Hansen, Wyoming Republican. He has had some experience with natural resources management problems and water development programs.

PURDUE MEETING

AAPSE related meetings at Purdue will be held as follows:

Sunday, May 4
8:00 P.M. Preliminary Board Meeting with Committee Chairman

Monday, May 5
9:00 A.M. - 3:00 P.M. AAPSE Board of Directors with Committee Chairman
3:00 P.M. - 5:00 P.M. SEMINAR FOR ALL AAPSE MEMBERS

SUBJECT: Teaching of Microbiology for Sanitary Engineers

Organizer - Dr. A. Ray Abernathy

(NOTE: If you have course syllabuses, problems, test assignments for such a course, bring them or send them to Ray, Department of Environmental Systems Engineering, Clemson University, Clemson, S. C., 29631)

Tuesday, May 6
8:00 P.M. Open AAPSE General Meeting

Agenda: 1. Research Grant Needs in Water Pollution Control
2. Needed Problem Activities for AAPSE

FOURTH AAPSE WORKSHOP

AAPSE's Fourth Annual Summer Workshop will be held June 25-27, 1969, at Myrtle Beach, South Carolina. The subject this year will be Applications of Systems Analysis in Sanitary Engineering. John Andrews is the program chairman and M. G. McLellon the local arrangements chairman. The workshop headquarters will be the Ocean Forest Hotel-Motel.

The workshops are designed to introduce AAPSE members to new tools and techniques which will aid them in both their teaching and research efforts. An interesting and stimulating program, with twelve separate presentations and three panel discussions has been planned. Each presentation will begin by introducing and explaining one of the techniques of systems analysis, and follow this by showing how this technique can be utilized to attack a specific sanitary engineering problem. Some of the techniques to be discussed are stochastic models, network analysis, use of digital computers, power spectrum analysis, frequency response, analog simulation and computation, linear programming, dynamic programming, optimal control theory, and hybrid computers. There will be four speakers per day, followed by a panel discussion with the day's speakers serving as the panel. Speakers will include R. L. Motard, Daniel Loucks, M. L. Wolla, Peter Holsberg, Don O'Connor, Robert Landell, James Bryant, Martin Manielista, Ben Dysart, and Burton Davidson.

The workshop locations are chosen to encourage an informal, relaxed atmosphere, where learning and information interchange can take place both in and out of the technical sessions. Myrtle Beach is a leading resort area and the workshop should provide an excellent opportunity for personal and family relaxation in addition to the stimulating technical discussions. Because of the unique opportunity to combine a learning experience with a family vacation, many members brought their families to last year's workshop and a good time was enjoyed by all. Because of this, regular activities for wives and children will be included in this year's overall program.

The Ocean Forest, Myrtle Beach's largest hotel, fronts on the ocean and offers excellent facilities at reasonable prices. Swimming pool, golf course, surf and pier fishing, charter boats, fun area for children, and many excellent restaurants are nearby. Babysitting services are available through the hotel and lifeguard service protects the swimmers.

Myrtle Beach is serviced by Piedmont and Southern Airlines, and access via Atlanta, Cincinnati, or Washington is easy. Rental cars are available and the hotel furnishes complimentary transportation to and from the airport.

This is a fine opportunity for continuing education, combined with fun and sun. No AAPSE member should miss it. Send your conference registration requests to John Andrews at Clemson University and your hotel reservation requests to the Ocean Forest Hotel. Registration will be limited to 50 people so get your requests in early.

TENTATIVE PROGRAM
AAPSE WORKSHOP

- Introduction to Systems Analysis - R. L. Motard, Dept. of Petroleum & Chemical Engineering, University of Houston
- Some Stochastic Models for Water Quality Control - D. P. Loucks, Dept. of Water Resources Engineering, Cornell University
- Modeling Water Distribution Systems Using Network Analysis Techniques - M. L. Wolla, Dept. of Electrical Engineering, Clemson University
- Use of Digital Computers in Systems Analysis - Ken Stevens, Digital Equipment Corporation
- Variance Spectra Analysis & Applications to Natural Water Systems - D. M. DiToro & D. J. O'Connor, Dept. of Civil Engineering, Manhattan College
- A Systems Structure for Analyzing Environmental Pollution Problems - R. D. Landel & B. C. Spradlin, School of Industrial Engineering, Georgia Institute of Technology
- Transient and Frequency Response Analysis of Water and Wastewater Treatment Systems - J. O. Bryant, Jr., Medical Service Corps, U. S. Army
- Applications of Analog Simulation and Computations in Systems Engineering - P. J. Holsberg, Electronic Associates, Inc.
- Linear Programming: An Evaluation of the Design of Water Treatment Facilities - M. P. Manielista, Medical Service Corps, U. S. Army
- The Use of Dynamic Programming in Regional Water Quality Planning - B. C. Dysart, III, Dept. of Environmental Systems Engineering, Clemson University
- Application of Optimal Control Theory to a Class of River Aeration Problems - B. Davidson, Dept. of Chemical Engineering, Rutgers University
- Hybrid Computers and Systems Engineering - P. J. Holsberg, Electronic Associates, Inc.

Good reading before you come to the workshop should include R. L. Motard's article in the February 1966 issue of Engineering Education (pages 198-202) entitled "Systems Engineering: Engineering Comes of Age and Its Academic Image."

If you cannot attend the workshop but would like to purchase a copy of the proceedings, contact John Andrews and let him know. Only a limited printing of the proceedings will be made.

John F. Andrews
Workshop Chairman
Environmental Systems Engineering
Clemson University
Clemson, South Carolina 29631

REQUESTS FROM COMMITTEE CHAIRMEN

EDUCATION COMMITTEE

Ray Loehr is interested in obtaining comments, viewpoints, etc. from the AAPSE membership regarding training policies for incorporation in a report to be made at the Dallas meeting. Please send your comments to:

Raymond C. Loehr
Department of Civil Engineering
Cornell University
Ithaca, New York

1970 WORKSHOP

Jack Cleasby is interested in suggestions for the subject and location of the 1970 and subsequent workshops. Please send him your views as the 1970 meeting must be finalized shortly.

ALASKA HAS NEW IWR DIRECTOR

Dr. R. Sage Murphy has been named director of the University of Alaska's Institute of Water Resources (IWR), it was announced by Dr. Kenneth M. Rae, vice president for research and advanced study.

In his first weeks as director, Murphy has outlined an ambitious research program for 1969 including a survey of water resources and potential pollution problems on Alaska's North Slope oil country.

Murphy came to Alaska in 1965 to head the environmental engineering section at the Federal Government's Arctic Health Research Laboratory. He came to the university the following year as an associate professor of environmental health engineering, heading UA's graduate program in that area.

Murphy has held numerous positions with state, national and international associations dealing in worldwide problems of water resources research. Noteworthy among them: chairman of the Interagency Committee on Water in Alaska; editorial committee member of the sanitary engineering division of the American Society of Civil Engineers; and Arctic representative of the waste treatment committee of the International Association for Water Pollution Research.

Murphy received his doctorate in sanitary engineering from Penn State University in 1963.

FWPCA MOVES TO NEW OFFICES

The Department of the Interior's Federal Water Pollution Control Administration has moved into new offices in Arlington, Virginia near Washington National Airport. Mailing address for the agency will be Federal Water Pollution Control Administration, Washington, D. C. 20242.

Telephone numbers for key personnel are listed below.

Commissioner, David D. Dominick	703 - 557-7777
Deputy Commissioner, John T. Barnhill	703 - 557-7305
Assistant Commissioner for Administration, Edmund J. Grant	703 - 557-7600
Assistant Commissioner for Enforcement, Murray Stein	703 - 557-7760
Assistant Commissioner for Research and Development Dr. David G. Stephan	703 - 557-7311
Assistant Commissioner for Operations, Dr. Allan Hirsch	703 - 557-7743
Office of Program Coordination, Kelly Campbell	703 - 557-7692
Office of Public Information, Charles M. Rogers, Director	703 - 557-7604
Richard C. Hoffmann, Press Officer	703 - 557-7362

OWRR REPORT

The 1968 Annual Report of water resources research activities and accomplishments under P.L. 88-379, as amended, has just been released.

In keeping with the Act and the intent of the Congress, the program under P.L. 88-379 as amended (1) involves an impressive array of research competencies both from the standpoint of engineering and scientific disciplines and types of research entities -- academic and nonacademic, public and private -- directed towards the solution of water-related problems; (2) contributes importantly to the training of water resources personnel; (3) sponsors both short-range research productive of results useful in solving significant current problems and more fundamental research needed for long-range solutions; (4) enters into and supplements research in new problem areas such as water resources planning methodology; and (5) promotes water resources scientific information exchange, research coordination and public education.

Included in the report are the findings of a special panel convened to assist in evaluating and assessing OWRR's accomplishments to date and to recommend programs and policies for the future.

Copies of the 1968 Annual Report are available from the OWRR, Department of the Interior, Washington, D. C. 20240, free of charge.

Topics discussed at the Fourth Annual Water Resources Research Conference, held 28-29 January, 1969, included updating of the 10-year water resources research program originally recommended by the Committee on Water Resources Research of the Federal Council for Science and Technology; the need for closing the gap between research results and application; the Water Resources Scientific Information Center; interdisciplinary research; and what social scientists can contribute to water resources research.

EIGHTH ANNUAL ENVIRONMENTAL AND WATER RESOURCES ENGINEERING CONFERENCE

The Eighth Annual Environmental and Water Resources Engineering Conference, sponsored by Vanderbilt University, the Tennessee Department of Public Health, and the Tennessee Stream Pollution Control Board, will be held June 5-6, 1969, at the new Sheraton Motor Inn in Nashville, Tennessee.

There will be two sessions on June 5 dealing with Air Resources, one on programs and surveys, and one on technology. There will be four sessions on water resources, two on June 5 and two on June 6. One will deal with utility planning, design, and operation, one with reservoir water quality effects, one with new solid and liquid waste treatment systems, and one with advanced topics in several specialties, including ground water quality and thermal pollution effects.

INTERESTING READING

The following items have been taken from the Conservation News of 15 January 1969, pages 12-14.

REORGANIZATION OF WPCA ANNOUNCED

A major reorganization has been announced for the Federal Water Pollution Control Administration. In an effort to tighten supervision and eliminate excessive compartmentalization of activities the number of FWPCA assistant commissioners will be reduced from seven to four. At the same time the office of the Commissioner will be assisted by a new Office of Program Coordination concerned with planning, development and review of programs and policy matters.

Under the new setup the assistant commissioners for Research and Development, Enforcement, and Administration will be retained. The fourth assistant will head up the new post for Operations which will include divisions of state and local programs, planning and interagency programs, technical support and manpower and training.

The reorganization calls for abolishing assistant commissioner positions for facilities programs, technical programs, comprehensive planning and programs, and program plans and development.

The reorganization is designed to clarify the relationship between the agency's headquarters and its units in the field. Emphasis has been placed on delegating more authority to the nine FWPCA regional directors so that they can respond more rapidly to regional pollution problems and to the needs and problems of other levels of government and industry.

TRANSPORTATION HAS ENVIRONMENTAL IMPACT OFFICE

The Department of Transportation has announced the establishment of an Office of Environmental Impact. The new office will assist the Department of Transportation's operating administrations in their efforts to protect the environment against undesirable effects of transportation activity.

Operations of the new office will be concerned with preserving parks and recreation areas, conservation and wildlife areas and historic sites. It also will be concerned with the effect of transportation activities on public health and on esthetic and social aspects of the urban environment.

The office has been assigned to Donald G. Agger, Assistant Secretary for International Affairs and Special Programs. Acting director of the new office will be Oscar S. Gray, 42, a lawyer.

EUTROPHICATION INFORMATION CENTER SET FOR UNIVERSITY OF WISCONSIN

A new information center at the University of Wisconsin will provide concerned scientists with a comprehensive source of reference materials on eutrophication, the aging process of surface waters enriched or fertilized by natural and waste-borne nutrients which stimulate excessive algae and aquatic weed growth.

The Eutrophication Information Center will be closely associated with the major research effort at the University's Water Resources Center headed by Dr. Gerard A. Rohlich.

Funds for the center will be provided by the Federal Water Pollution Control Administration, the Interior Department's Office of Water Resources Research, University of Wisconsin, U. S. Department of Agriculture, and the Soap and Detergent Association.

PROCEEDINGS AVAILABLE ON EFFECTS OF RESERVOIRS ON WATER QUALITY

The proceedings of the American Society of Civil Engineers Specialty Conference on current research into the effects of reservoirs on water quality, are now available. This conference was held in Portland, Oregon and was co-sponsored by the Hydraulic and Sanitary Engineering Divisions of ASCE. The meeting was interdisciplinary in nature and contributions were made by Hydraulic Engineers, Sanitary Engineers, Biologists, and Chemists. Both formal and informal discussions of each paper presented are included in the proceedings.

A limited number of copies of the proceedings are available at a cost of six dollars each and may be obtained from:

Peter A. Krenkel
Department of Environmental and
Water Resources Engineering
Box 1670 Station B
Vanderbilt University
Nashville, Tennessee 37203

NEW STAFF MEMBER AT VANDERBILT

Dr. Barry A. Benedict joined the Department of Sanitary and Water Resources Engineering at Vanderbilt at the beginning of the spring semester as an Assistant Professor of Hydraulic and Water Resources Engineering. His Ph.D. work was carried out at the University of Florida.

CONGRESSIONAL ACTIVITY

Recent reviews of Congressional activity and various newsletters indicate a greatly intensified interest in Congress and in the Federal Government generally in the quality of the environment. The following items are a sample of a few bills which have recently been introduced in Congress.

S.1071 (Kennedy and others), H.R.7016 and H.R.7052 (Moss and others), and H.R.7186 (McDonald of Massachusetts). To amend the Federal Power Act to further promote the reliability, abundance, economy, and efficiency of bulk electric power supplies through regional and inter-regional coordination; to encourage the installation and use of improved extra-high voltage facilities; to preserve the environment and conserve natural resources; to establish the National Council on the Environment.

S.1075 (Jackson and Stevens). To authorize the Secretary of the Interior to conduct investigations, studies, surveys, and research relating to the Nation's ecological systems, natural resources, and environmental quality and to establish a Council on Environmental Quality.

H.R.6955 (Corman). To create in the Executive Office of the President a Council of Ecological Advisers.

S.1085 (Nelson). The "Environmental Quality Preservation Act of 1969."

H.R.7923 (Howard) and H.R.8006 (Podell). To authorize the Secretary of the Interior to conduct investigations, studies, surveys, and research relating to the Nation's ecological systems, natural resources, and environmental quality and to establish a Council on Environmental Quality.

S.1232 (Moss, Bible, Cannon and Church). To declare and determine the policy of the Congress with respect to the primary authority of the several States to control, regulate, and manage fish and wildlife within their territorial boundaries; to confirm to the several States such primary authority and responsibility with respect to the management, regulation, and control of fish and wildlife on lands owned by the United States and to specify the exceptions applicable thereto; and to provide procedure under which Federal agencies may otherwise regulate the taking of fish and game on such lands.

H.J. Res. 505 (Lowenstein). Proposing an amendment to the Constitution of the United States relating to the conservation of the natural resources and natural beauty of the United States.

The Subcommittee on Intergovernmental Relations of the Senate Committee on Government Operations has held hearings on S. Res. 78, to establish a Select Committee on Technology and the Human Environment.

Also, a recent report by President Nixon's Task Force on Resources and the Environment, headed by Russell E. Train, new Undersecretary of the Interior, has recommended that the President name both a Special Assistant for Environmental Affairs and a White House Council on the Environment to be chaired by Vice President Spiro Agnew.

As you can see, these are indications of the importance attached to ecology and environmental quality control in the Federal Government and the likelihood of funds for research and educational programs in these areas in the next few years.

FIFTH INTERNATIONAL CONFERENCE ON WATER POLLUTION RESEARCH

As you might already know, the Fifth International Conference on Water Pollution Research is scheduled for San Francisco on July 26 through August 1, 1970. You are invited to submit an abstract on your research. Topics of special interest for the conference include:

Californian water quality problems, especially those concerned with long-distance transfer, toxicity biostimulation, seawater intrusion, wastewater treatment and water reclamation.

Eutrophication - especially in regard to nutrients; biostimulants; preventive measures; and economic considerations.

Economic and technical aspects of water quality control.

Ground water recharge in relation to waste disposal and water re-use.

Scientific, technological and economic aspects of treatment of municipal and industrial wastewater, developments in plant control, low cost treatment plant for developing countries, problems of disposal of waste from small or isolated communities, biology of treatment processes, wastewater re-use in industry.

Engineering, physico-chemical, microbiological and virological aspects of the pollution of streams and inland waters.

Instrumental methods of process control and water quality monitoring.

The extent and control of pollution from stormwater overflows.

The disposal of sludge from municipal and industrial waste treatment plants.

Waste disposal in estuaries and marine waters; modeling of marine waste disposal systems.

Water pollution control processes and systems. Mathematical modeling.

Your research in other areas of water pollution will also be considered.

If any of your colleagues have a significant research contribution, please pass this information on to them. All abstracts are due by August 1, 1969. The abstract will be reviewed by a selected panel of experts and the selected papers and authors will be notified by October 15, 1969.

All completed papers must be received by December 31, 1969.

INSTRUCTIONS FOR THE SUBMISSION OF ABSTRACTS

Prospective participants in the Fifth International Conference on Water Pollution Research are cordially invited to submit abstracts to the American Program Committee. The basis of selection of Conference participants will be the excellence of the abstract as judged by the criteria set forth below.

Abstracts should be between 500 and 1000 words in length. They should be submitted typed, single spaced, in six (6) copies to W. W. Eckenfelder, Technical Program Coordinator, U. S. National Committee, ELB 305, The University of Texas, Austin, Texas. It is desirable that abstracts be submitted as soon as possible, but all must reach Professor Eckenfelder prior to August 1, 1969, in order to be considered by the Program Committee. The 'Abstract Information Sheet' should serve as the cover page of each copy of the Abstract. It may be reproduced as desired. Pertinent bibliographic material, graphs, sketches, and tables should be included at the end of the abstract narrative.

The senior author of each abstract will be notified of receipt of his abstract. Final selection of papers will be made by the American Program Committee in September, and authors of those selected will be notified by October 15, 1969. Final papers are to be in the Secretary's hands by December 31, 1969.

The American Program Committee, recognizing the lead-time from abstract submission to paper presentation, but regarding the quality of the abstract as the only appropriate measure of the probable excellence of the final paper, has summarized the criteria by which abstracts will be judged and papers selected for presentation. These criteria should serve as your guide in both abstract and paper presentation:

1. **ORIGINALITY OF RESEARCH.** The research should deal to a maximum extent with new concepts or with new and novel applications of established concepts. It may also describe substantial improvements of existing theories or present significant new data in support and extension of these theories. Detailed descriptions of treatment works, extensive and conventional field surveys of polluted waters, and broad studies of ill-defined problem situations should be avoided unless pertinent to the central thesis of the paper. Previously published data should only be introduced in summary form and for either comparative or supportive purposes.
2. **STATUS OF RESEARCH.** The abstract should establish that the research is well developed, that the general theory or experimental procedure has been established, and that some data have been collected and subjected to preliminary analysis. It should be fully evident that the abstract describes the content of the paper to be presented.
3. **WATER POLLUTION SIGNIFICANCE.** The research should clearly and significantly relate to water pollution. Papers of a truly fundamental scientific material are very much desired, but the author should make evident the relationship of his work to a real problem area or situation in water quality and wastewater control.
4. **ADEQUACY OF ABSTRACT PREPARATION.** Recognizing that the adequacy of an abstract is indicative of the probable quality of the final paper, authors are urged to prepare their abstracts with great care. Attention should be given to the prose style of abstract, to its organization, and to the manner of data presentation. Objectives, scope, and general procedure should be included insofar as the limited length of the abstract permits. If at all possible, some indication of conclusions is desirable. Since abstracts selected for the final program will be published, the following additional instructions should be observed:

Photographs should be glossy, black and white.

Line drawings and graphs may be in a similar form or originals with black lines on light paper or linen.

Lettering and other details must be large enough to remain legible after reduction to fit printing requirements.

All lettering must be done by Leroy or equivalent.

Typewritten legends and internal descriptions or drawings will not be accepted.

Captions for all photos and titles for all drawings must be included.

OUR 1966-67 PRODUCTION RECORD

The February 1969 issue of *Engineering Education* (pages 515-527) reviews the production of engineers for the 1966-67 school year. Under the area of Environmental Health and Sanitary Engineering, a total of 17 bachelor's, 178 master's and 28 doctor's degrees were given. The following table gives the breakdown by institutions:

ENVIRONMENTAL HEALTH AND SANITARY ENGINEERING DEGREES, 1966-67

Institution	Degree		
	Bachelor's	Master's	Doctor's
San Jose State College	10		
Univ. of California, Berkeley		5	1
Univ. of Florida		7	4
Georgia Institute of Tech.		4	
Illinois Institute of Tech.		4	2
Univ. of Illinois		3	1
Univ. of Kansas		6	2
Johns Hopkins Univ.		2	2
Univ. of Michigan		11	
Univ. of Minnesota		6	
Univ. of Missouri, Columbia		5	
Washington Univ.		1	2
Rutgers Univ.		3	
Cornell Univ.		5	3
Manhattan College		13	
New York Univ.		3	3
Rensselaer Poly. Institute	2	3	5
Univ. of North Carolina		14	
Univ. of Cincinnati		7	3
Oklahoma State Univ.		2	
Drexel Institute of Tech.		27	
Penn. State Univ.	5	9	
Univ. of Tennessee		1	
Univ. of Texas, Austin		5	
Virginia Poly. Institute		9	
Washington State Univ.		5	
Univ. of Wisconsin, Madison		18	

CORRECTION TO MEMBERSHIP LIST

The November 1968 issue (Vol. 4, No. 1) of the AAPSE Newsletter contained a listing of new members. This listing was partially in error and only the following names should have been listed as new members:

Professor P. H. Jones
Department of Civil Engineering
University of Toronto
Toronto, Canada

Dr. George P. Hanna, Jr.
Professor of Civil Engineering
The Ohio State University
Columbus, Ohio

Professor William A. Drewry
Department of Civil Engineering
University of Tennessee
Knoxville, Tennessee

Professor G. W. Heinke
Department of Civil Engineering
University of Toronto
Toronto, Canada

Professor Jan Scherfig
Univ. of California, Irvine
School of Engineering
Irvine, California

Dr. Carl E. Burkhead
Department of Civil Engineering
University of Kentucky
Lexington, Kentucky

Dr. Albert A. Cannella
Professor, Civil Engineering
Tennessee Technological Univ.
Lookeville, Tennessee

Dr. A. Joel Kaplovsky, Chairman
Department of Environmental Sciences
Rutgers University
New Brunswick, New Jersey

Dr. David W. Hendricks
Associate Professor of
Civil Engineering
Utah Water Research Laboratory
Utah State University
Logan, Utah

Dr. Alan J. Rubin
Associate Professor of
Civil Engineering
Water Resources Center
The Ohio State University
Columbus, Ohio

Professor Joseph V. Hunter
College of Agriculture and
Environmental Sciences
Rutgers University
New Brunswick, New Jersey

Mr. Roger M. Jorden
Assistant Professor
Engineering Center OT4-34
University of Colorado
Boulder, Colorado

The Newsletter is sent to a number of persons who are interested in the affairs of the organization but are not members. The remaining names on the list are in this category.

NEWS NEEDED

The Newsletter committee is in need of news about the AAPSE members as well as other news of interest to the profession; for example, items concerning your upcoming sabbatical leave (destination, activity, etc.), and opportunities for visiting professorships and new positions. Notices of conferences and short courses should be submitted as early as possible. Look over the committee list of AAPSE and send suggestions and comments to the chairman of the committees you are interested in.

MEETINGS OF INTEREST

Eighth Annual Sanitary Water Resources Engineering Conference -
Vanderbilt University

June 5-6, 1969

Sheraton Motor Inn

Nashville, Tennessee

Contact: Dr. Edward L. Thackston
Assistant Professor of Sanitary and
Water Resources Engineering
Vanderbilt University
Box 133, Station B
Nashville, Tennessee 37203

Fifth Rudolfs Research Conference

"Origin, Distribution, Transport, and Fate of
Organic Compounds in Aquatic Environments"

June 30, July 1-2, 1969

Contact: Mr. Roger Locandro
Office of Resident Instruction, Room 206
College of Agriculture and
Environmental Sciences
Rutgers, The State University
New Brunswick, New Jersey 08903

ASCE Sanitary Engineering Division - Cornell University

Specialty Conference on Sanitary Engineering

Research, Development and Design

July 14-16, 1969

Contact: Professor Alonzo Lawrence
Hollister Hall
Cornell University
Ithaca, New York 14850

American Society of Civil Engineers Annual Meeting

"Environmental Engineering"

October 13-17, 1969

Pick Congress Hotel

Chicago, Illinois

American Society of Civil Engineers Conference

"Water Resources Engineering"

January 26-30, 1970

Sheraton-Peabody Hotel

Memphis, Tennessee

RESEARCH FELLOWSHIP ALLOWANCE

The FWPCA has recently issued a new policy statement on research fellowships, and developed new application forms for students wishing to apply for such research fellowships. Research fellowships are designed for support of Ph.D. candidates who outline a research problem of interest to the mission of the FWPCA. For each fellowship awarded, the current policy states:

"Each fellowship award -- includes a \$2500 allowance TO THE SPONSORING INSTITUTION. This allowance is made in lieu of tuition, fees, and supply allowance. It is intended to cover tuition and TO HELP DEFRAY OTHER COSTS SUCH AS RESEARCH EQUIPMENT, SUPPLIES AND ATTENDANCE AT SCIENTIFIC MEETINGS. In addition, it is intended to offset, insofar as possible, administrative and other costs of graduate education. THE INSTITUTION CONTROLS THE EXPENDITURE OF THIS ALLOWANCE -- AND SHALL REPORT ANNUALLY HOW FUNDS WERE EXPENDED."

The AAPSE President, E. R. Baumann, has recently requested that the Education Committee make a determination as to the policy followed by AAPSE member institutions concerning the fellowship "allowance to the sponsoring institution." Reports to the President from various sources indicate that the fellowship sponsor may actually receive anywhere from none to as much as \$1500 of the \$2500 allowance for direct support of the research fellow's research program. It has been stated by some university administrators that use of these funds for specific student research support would constitute a misuse of university funds. Apparently, some universities have a policy of using the entire \$2500 allowance for university support and devote none of these funds for support of the research fellow's research program. In order to develop an AAPSE policy on this matter, it would be helpful if we knew what the situation was in our various areas. Accordingly, the Education Committee has been asked to make an evaluation of the allowance to the sponsoring institution and the present status of the disposition of this allowance in our member institutions. If you have any comments that you would care to make, you may direct them to Dr. Ray D. Loehr, our Education Committee Chairman.

REVISION OF REGISTER DUE SOON

Copies of the AAPSE-EEIB Educational Resources Committee's guidelines for submission of institutional program information to the Second Edition of the Register of Graduate Programs in the Field of Sanitary Engineering Education were mailed during the first week of March. Respondants were asked to return the information sheets by April 1.

A Statistical Supplement Questionnaire also was sent out. The data requested in the questionnaire will be included in the introduction to the revised Register. Those programs which have not received their copies of the guidelines or questionnaire should contact the chairman, Dale Carlson, immediately at the following address:

Professor Dale A. Carlson
305 More Hall
University of Washington
Seattle, Washington 98105