

the news

PHILADELPHIA SECTION



AMERICAN SOCIETY OF CIVIL ENGINEERS

Vol. 49 - No. 5

Our 64th Year

FEBRUARY, 1977

FEBRUARY LUNCHEON MEETING

Philadelphia Section, American Society of Civil Engineers

Sponsored by the Hydraulics and Sanitary Group

TUESDAY, FEBRUARY 8, 1977

Engineers' Club, 1317 Spruce Street, Philadelphia

Cocktails — 11:30 A.M. Lunch — 12:00 Meeting — 1:00 P.M.

SUBJECT:

RESOURCE RECOVERY and RESIDUALS MANAGEMENT

SPEAKER:

DAVID J. DAMIANO, Commissioner, Philadelphia Streets Department

PROGRAM HOST:

MICHAEL NELSON, Chairman, Hydraulics and Sanitary Group



Mr. Damiano, with the exception of one year, has spent his entire professional career with the Philadelphia Streets Department. In 1955, after receiving his Bachelor's Degree in Civil Engineering from Villanova, he started his Streets Department career as a graduate engineer. In 1963 Villanova conferred the Masters of Civil Engineering degree to Mr. Damiano. By 1971 Mr. Damiano had progressed to the rank of Chief Sanitation Engineer. At this point he took the position of Chief Engineer, Bureau of Engineering, Department of Sanitation for the City of New York. Because of his excellent reputation, the newly elected Philadelphia administration appointed David Damiano Commissioner of the Streets Department in 1972. As Commissioner Mr. Damiano is responsible for the complete operation of the department which includes highway and street maintenance, planning and traffic, trash collection and disposal, street lighting and surveys and design.

Commissioner Damiano is quite active in the ASCE and American Public Works Association. In addition, he is an active participant in committees associated with solid waste management and incineration. He is a registered professional engineer in the states of New York and Pennsylvania.

Mr. Damiano will highlight in his presentation the past, present and future of resource recovery and residuals management as it relates to the City of Philadelphia.

SPECIAL FEATURE:

UNIVERSITY OF PENNSYLVANIA DAY

The ASCE Student Chapter members, faculty and alumni of the Civil Engineering Department of the University of Pennsylvania will be honored at this meeting. All students, faculty and alumni are cordially invited to attend.

READING BRANCH MEETING

Editors Note: The Phila. Section's Reading Branch asked THE NEWS to publish its meeting notices. We are glad to oblige. It is felt that Phila. Section members could attend if the topics interest them.

The February meeting of Reading Branch will be held on **Wednesday, February 23, 1977**, at Green Valley Country Club. **Dr. Stanley F. Gillman**, Prof. of Architectural Engineering at Penn State will speak on "Solar Energy — A New Frontier for the Heating and Cooling of Buildings". Dinner will be at 7:00 P.M., the meeting at 8:00 P.M. Contact Robert Caswell at Gilbert Assoc., Inc., P. O. Box 1498, Reading Pa. 19603 for reservations. All Philadelphia Section members welcome! This is a joint meeting with the Reading PSPE Chapter.

ASSOCIATE MEMBER NEWS

Call for Papers

The 1977 Daniel W. Mead Prize Contest is open to all Associate Members. This year's topic is "Engineering Advertising — Where should the line be drawn?" (See detailed article in the January, 1977, issue of THE NEWS.) The deadline for having papers in to the Philadelphia Section is April 15. For further information contact Bill Malarkey at 687-1600, Ext. 268.

February Meeting

The Associate Member Forum will hold a joint meeting with The Drexel Student Chapter, at Drexel, on **February 14, 1977 at 7:00 P.M.** The speaker will be Dr. Anthony M. DiGioia, Jr., ASCE Director of District IV. Refreshments will be served.

President Bill Malarkey is working very hard to arrange interesting programs this year. All Associate Members should support the events planned.

STUDENTS — Plan to attend for Lunch (Half Price) or meeting after Lunch
Mail Reservation Cards Immediately — Win a **FREE DINNER!**

JANUARY MEETING

Engineers' Club January 11, 1977

Editors Note: THE NEWS thanks Dennis J. Mohan, Chairman of the Geotechnical Group for authoring the following excellent writeup.

Speaking before a crowd of approximately 100 at the main January meeting of the Philadelphia Section, **Dr. Frank E. Richart**, well-known expert on vibrating foundations from the University of Michigan, spoke on the methods of determining dynamic soil properties. Of great importance in the design of nuclear power plants, these properties are determined in the field and laboratory to cover the full spectrum of earthquake strains.

Beginning with a definition of the various waves propagated by earthquakes, explosions or vibratory loads, the talk centered on the field techniques of determining shear and compression wave velocities. Profusely illustrated with first-rate slides, the refraction, reflection, cross-hole and up-hole apparatus were shown and the procedure explained with diagrams. Once the shear wave velocity is known, the shear modulus used in design can be determined. In situ geophysical methods cover the lower range of shear strains expected in earthquakes, and so the laboratory methods using resonant column and torsional shear tests are used to cover the higher earthquake shear strains. These methods also provide a check on the field measurement techniques at overlapping strains. Dr. Richart cautioned that the results obtained in the field can vary once the structure load is applied since the shear modulus depends greatly on overburden pressure. More control over this problem is possible in laboratory testing, but there are procedural difficulties in scale effects, sample shape and so forth that must be considered.

Once the complete range of shear moduli for the given strain produced by the earthquake has been determined and damping effects included, structural analysis can proceed.

Dr. Richart's straightforward, well illustrated and comprehensible approach to this technical subject carried the audience (including Mrs. Richart and Mrs. Koerner) along easily. In the brief question and answer period, Dr. Richart stressed that field monitoring of behavior to add confidence to these analytical methods is very important and should be the direction of further research outlays.

Drexel Night

The meeting honored the ASCE Student Chapter, faculty and alumni of Drexel University. First Vice President Clark, filling in for the delayed President Will Heiser, introduced Professor Robert Koerner who in turn introduced the Student Chapter members, alumni and faculty members. It seems that the Student Chapter stresses the social as well as the technical, contributing to the success of the Chapter. Dr. Bernard McNamee, Chairman of the Civil Engineering Department, then delivered a short synopsis of the history of the advanced degree granting at Drexel and the great progress made recently at the school. Elements of the curricula with emphasis on the quality of the senior design projects and the value of the co-op experience were noted as portents of the bright future of the programs at Drexel.

TECHNICAL GROUP ACTIVITIES

Construction

Date: **Tuesday, February 8, 1977**
Engineers' Club — 7:00 P.M.

Subject: **System Building in the GSA & Recent Applications in Philadelphia**

Speaker: **Clifford Thomas**, Project Manager for the recently completed Social Security Program Centers in San Francisco, Chicago, and Philadelphia

Date: **Tuesday, February 22, 1977**
Engineers' Club — 7:00 P.M.

Subject: **Problems of Construction Contracts**

Speaker: **Ralph B. Powell, Jr.**, Harvey, Pennington, Herting, and Renneisen

Program Host (both meetings):
Frederic L. Plotnick Chairman, Construction Group

Geotechnical

Date: **Tuesday, February 15, 1977**
Engineers' Club — 7:00 P.M.

Subject: **"Cyclic Behavior of Sands as Determined in the Laboratory for Earthquake Analysis"**

Speaker: **Richard S. Ladd**, Woodward-Clyde Consultants, Clifton, New Jersey

Program Host: **Dennis J. Mohan**, Chairman, Geotechnical Group

Hydraulics and Sanitary

Sponsor of Main Section Meeting
February 8, 1977. See page 1.

Structural

Date: **Friday, February 18, 1977**
Luncheon Meeting
Engineers' Club — 12:00 Noon

Subject: **Static and Dynamic Response of Horizontally Curved Highway Bridges**

Speaker: **Dr. Sidney Shore**, Chairman of the Department of Civil and Urban Engineering, University of Pennsylvania

Program Host: **Dr. George N. Bathish**, Chairman Structural Group

Transportation and Urban Development

Date: **Tuesday, February 15, 1977**
Luncheon Meeting
Engineers' Club — 12:00 Noon

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**COPY DEADLINE FOR
MARCH, 1977 ISSUE
FEBRUARY 15, 1977**

MEMBERS IN THE NEWS

Dr. George N. Bathish, Professor of Civil Engineering, Widener College, has accepted the appointment of Chairman of the Philadelphia Section's Structural Group. Dr. Bathish is busy planning programs for the current year (see Technical Group Activities).

John J. Lotz, 1977 Engineer of the Year in Delaware Valley, has been elected President of The Carpenters' Company of Philadelphia. (See article: "Building Early America" elsewhere in this issue of THE NEWS for brief history of this famous organization). Mr. Lotz announced that the Carpenters' program in the year ahead will focus attention on Carpenters' Hall as the center — in 1777 and 1778 — of efforts to defend Philadelphia and the Delaware River in the War for Independence; and the contributions of builders, architects and engineers to these efforts. A calendar of interesting events has been posted at Carpenters' Hall, 320 Chestnut St., and at the Independence Park Visitor Center, 3rd and Chestnut Streets.

ROCK EXCAVATION LECTURE NOTES

Lecture notes are available for the Rock Excavation Seminar presented in October, 1976 by the Foundations and Soil Mechanics Group, Metropolitan Section. Lectures by a group of expert practitioners were directed toward construction in an urban environment and included such subjects as geology of the New York City Area, problems in constructing rock excavations, determina-

tion of in-situ rock properties, observations and design in the construction of rock chambers, in-situ stresses and their effects on the performance of rock excavations, rock blasting, and rock support systems.

The lecture notes with notebook binder may be obtained by sending a check for twenty dollars (\$20.00) made payable to: "Met Section, ASCE" to Donald L. York, The Port Authority of New York, and New Jersey, One World Trade Center, Room 60 West, New York, New York 10048.

MEMBERS SOUGHT

The Membership Committee of the Phila. Section is trying to win a contest sponsored by ASCE National. First prize is a one-week all expenses paid "Holiday in Manayunk". (Second prize—two week "Holiday in Manayunk"). Won't you please help?

We recognize that it takes a little effort to solicit new members but we need the support of all Civil Engineers to remain a viable force in the professional engineering community. **Resolve to bring a potential member to the February meeting.** (The Membership Committee is really looking forward to the trip — let's not disappoint them).

Editor's Note: It will be obvious to any discerning individual that the brief statement above was composed by Manayunk's Ambassador to the United Nations: The Hon. Joseph R. Syrnick. (He is also Phila. Section's Membership Secretary).

What Mr. Syrnick in modesty does not say in his bid for the Section Membership's help in recruiting new members to ASCE and the Section, is the abundance and diversity of work which he has been doing in his unceasing efforts to stimulate growth in ASCE Membership, to wit:

- * Dispatched letters to 62 Phila. Section members (including 10 Reading Branch affiliates) dropped by ASCE National for non-payment of dues. The delinquent members are invited to review and answer a questionnaire attached to the letter, and to write their comments and reasons for suspending their participation in ASCE.
- * Mailed information letters and applications for membership to 141 Civil Engineers who are members of PSPE and whose practice embraces the Philadelphia area. Proposed follow-ups include personal phone contact; a letter from the Phila. Section President; and an ASCE National membership package kit.

* Letters of welcome sent to approx-

imately 50 new members, including ticket/questionnaire for free dinners at Section meetings.

- * Letters of welcome to transferred-in members to Philadelphia Section from other areas or Local Sections.
- * Memoranda to Technical Group Chairmen requesting them to solicit names of "hot prospects" who attend Group meetings, but who are not members of ASCE.

The above brief summary indicates Membership Secretary Syrnick's enterprise in fulfilling an objective and assignment. Let's all help him in his task.

EVERY MEMBER BRING IN A POTENTIAL MEMBER. And start with the February 8, 1977 meeting!

ACI GAVEL REMAINS IN ASCE HANDS

Submitted by Albert M. Tantala, Sec.

The Philadelphia Chapter of the American Concrete Institute installed a new slate of officers at their meeting at the Engineers' Club on Thursday, January 13, 1977. **Both outgoing and incoming Presidents are also members of ASCE.** Outgoing President **Frederic Roll** handed over the gavel of leadership to incoming President **Randall C. Cronin**.

President Cronin officially noted that his predecessor established high standards, initiated several new programs, and ran a very efficient and organized Chapter.

Other ASCE members installed at the meeting were **Theodore D. Robinson, III**, as Secretary-Treasurer, and **Donald D. Meisel**, as Director. ACI Director **Putnas V. Maslaitis** is also ASCE.

Four of the five ACI 1977 Nominating Committee are ASCEers: **David Bloom**, **E. Fred Brecher**, **Charles A. Kesten**, and **Ralph Koliner**.

The next ACI meeting will be jointly held with the ASCE Reading Branch on **Thursday, March 17, 1977**, at the Berkshire Sheraton outside Reading. **Dov Kaminetzky** will discuss "How to Avoid Formwork Failures".



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ATTENTION — ASSOCIATE MEMBERS

AMF President Bill Malarkey requests information from Associate Members for publication in THE NEWS. Send your items (social, business, etc.) to him c/o PennDOT Bridge Unit, 200 Radnor-Chester Road, St. Davids, Pa. 19087 — Phone: 687-1600, Ext. 268.

CENTRAL PA. MEETING OF INTEREST

Editor's Note: The following meeting notice of the Central Pa. Section Geotechnical Group will be of interest to many Phila. Section members, and they may wish to attend.

Date: **Thursday, February 17, 1977**

Place: Crossgates Inn, 5401 Carlisle Pike, Mechanicsburg, Pa.

Time: Social — 6:30 P.M.

Dinner — 7:15 P.M.

Program — 8:15 P.M.

Subject: **"Teton Dam Failure"**

Discussion of "Findings of Independent Panel"

Speaker: **Ralph Peck, Ph.D.**

Albuquerque, New Mexico

Dr. Peck is recognized internationally for his contributions to the art of geotechnical engineering. He has been the recipient of the Norman Medal and Wellington Prize of ASCE, and has been a Terzaghi Lecturer.

Dr. Peck has devoted his efforts primarily to the application of soil mechanics to design and construction, and to the evaluation and the presentation of the results of research in form suitable for ready use by the practicing engineer.

Dr. Peck is currently a member of the nine-man independent panel of experts appointed by the Secretary of Interior to study the June 5th Teton Dam failure. It is expected that the findings of the independent panel will be published in January 1977.

The topic should be of interest to all engineers.

For reservations contact —

Charles Churilla, 3208 Trinity Road, Harrisburg, Pa. 17109, Tel. 717-787-1110

Members and Guests — \$7.00

Students — \$3.50

SECTION MEMBERS!

Please Take THE NEWS Home. Your Wife Wants to Read The Women's Auxiliary Items.

"THE BOOK" IS READY AND WAITING FOR YOU

The special Bicentennial Commemorative Book celebrating the 1976 ASCE National Convention and Exposition, hosted by the Philadelphia Section at The Sheraton, September 27 - October 1, 1976: **"The History of Civil Engineering and Construction in the Delaware Valley"** is now available for purchase by the Section membership, their friends and associates.

The 164-page handsomely bound hard cover profusely illustrated volume vividly portrays the full Convention program; a circumferential spectrum of historical and technological interest of the principal branches and elements of civil engineering, construction and public works development in the Delaware Valley. It contains short histories of the foremost engineers, consulting firms and construction-allied companies and industries in the region.

Sponsors (\$25.00 contribution), Professional Card inserters, advertisers (including firm histories) are each entitled to a complimentary copy of the book. **In order that the Section may be spared heavy postage costs, we request that these copies be picked up at the offices of Section Treasurer Theodore Davis, c/o Rothbaum & Davis, 215 S. Broad Street, Phila. 19107, Phone (215) PE 5-6498.** Copies are also on hand for purchase — at \$10.00 each — at Mr. Davis' office, and also at the **Engineers' Club (ask for Mr. deKovaacs, Executive Manager, at the main desk).** The Membership is urged to buy these valuable books. They will add prestige and effective reference focus to your library. You will also be helping defray the great cost to the Section of the recent great Convention.

Members can further serve the Section by publicizing the Book among their clients and associates in civil engineering and construction allied industries.

"BUILDING EARLY AMERICA"

Through the courtesy of Section Past President Joseph R. Farrell, Jr., a beautiful new volume has been donated to the Engineers' Club library. It is entitled: **"Building Early America"**, published by The Carpenters' Company of the City and County of Philadelphia in celebration of that eminent Society's 250th Anniversary festival and historical building symposium in Philadelphia in March, 1974 (please refer to an article on this in the March, 1974 issue of THE NEWS).


Established in 1724 and later headquartered at the world-famous Carpenters' Hall (320 Chestnut Street, Phila.), the Carpenters' Company followed the medieval guild pattern of the Carpenters' Company of London. Philadelphia builders declared "... their purpose of obtaining instruction in the science of architecture and assisting members in need of support..." Since 1724, the membership has continued as a fraternity of builders and architects. In 1857, the Society decided to set the Hall aside as an historic Revolutionary landmark. It remains as a fine example of Georgian architecture, and is visited annually by hundreds of thousands of visitors to the Independence Hall area.

The Phila. Section, ASCE membership is cordially invited to inspect this invaluable addition to the historical literature of America's greatest industry. Inquiries on the book "Building Early America" may be made to Joseph L. deKovaacs, Executive Manager, at the Engineers' Club library.

WOMEN'S AUXILIARY

The next regular monthly Luncheon-Meeting of the Section's Women's Auxiliary will be held at the Engineers' Club on **Wednesday, February 16, 1977, 12:00 noon.** "Services for the Consumer" will be discussed by the principal speaker: **Mrs. Ruth Giller**, an official of the Phila. Better Business Bureau. This important and timely topic will be of interest to all Auxiliary members and their guests, who are cordially invited to attend.

The wives of all Section members are urged to join our splendid Auxiliary and to take part in its varied and enjoyable activities. Come to the February meeting and a membership application will be ready and waiting for you. For reservations, please call Natalie (Mrs. William K.) Clayton - MI 6-2817. And bring guests, too! (Note: The Auxiliary's January 19th Luncheon-Meeting was cancelled because of the severe weather).

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LEGISLATIVE CORNER

by John E. Spitko

ASCE National Board Resolution on EPA Post

Your ASCE National Board of Direction passed a resolution, on November 2, 1976, dealing with the question: Why should one of the largest public works programs in U. S. history be run by lawyers and accountants? Those of you working in the field of sewage facilities planning, design, and construction are well aware of the monumental amount of red tape in EPA's Construction Grants Program. Much of this red tape over the years has been blamed on the lawyers at the top in EPA.

In this recent National Resolution, ASCE urges President Carter and Congress to appoint a Deputy EPA Administrator for Engineering who would be responsible for implementing all federal water pollution, air pollution and solid waste programs. Further, ASCE has drafted, and sent to Congress, text for legislation that would "require by law that this post be filled by a registered professional engineer" with the qualifications to adequately manage the Construction Grant Programs. The resolution further urges that "it will be required by law that the professional employees who make up the integrated engineering management team of this office and subordinate offices be at least 50% professional engineers, as part of an inter-disciplinary team with all other professions concerned with environmental problems". The full text of the National Resolution can and should be read in the January, 1977 issue of National ASCE "News".

If passed into law, the ASCE Resolution would bring about a major change in the organization of EPA Headquarters. Even though some of the top brass have resigned, here is the current hierarchy in Washington:

EPA Administrator
Russell Train (Resigned)
Attorney
Deputy Administrator
John Quarles (Acting Admin.)
Attorney
Assistant Administrators (A.A.)
Answered to Mr. Quarles and
Mr. Train
A.A. for Planning & Management
Alvin Alms (Resigned 1-28-77)
Masters in Public Administration
A.A. for Enforcement
Stanley Legro
Attorney

A.A. for Air and Waste
Roger Strelow (Resigned 1-1977)
Attorney
A.A. Water & Hazardous Materials
Dr. Andrew Briedenback
B.S. Chemistry & Zoology, Ph.D.
Biochemistry & Cancer Research

Note: Dr. Briedenback has responsibility for wastewater treatment, drinking water, pesticides and water quality. One of his four Deputy Assistant Administrators is John T. Rhett who is in charge of Water Program Operations (i.e. The Construction Grants Program). Mr. Rhett is a P.E.

A.A. Research and Development
Dr. Wilson Talley
BA Physics Masters - Physics Ph.D.
- Nuclear Engineering

It is assumed that a new legislative amendment following the ASCE Resolution would place Dr. Briedenback, or his equivalent, in a position equal to that of John Quarles.

In the next few weeks, our Philadelphia Section Board of Directors will receive and act on a recommendation from the Legislative Affairs Committee on: (1) whether or not the Philadelphia Section should support this resolution and; (2) what specific steps should be taken by the Section as a whole and by its members as individuals.

You are invited to hear

"ROBERT SMITH and the DEFENSES of the DELAWARE"

A subscription lecture by
John W. Jackson, author of
The Pennsylvania Navy, 1775 - 1881
to be held in the
Independence Park Visitor Center
Third and Chestnut Streets
4:30 P.M., Friday, February 11, 1977
followed by refreshments

Two hundred years ago Philadelphia was threatened by the British army and

navy already in full possession of New York City. Elaborate plans for the defenses of the Delaware River were under way. No measures were more remarkable than the *chevaux-de-frise*, those armed log crates, big as two story houses, that were sunk in careful formations below the surface of the river.

Planned by Robert Smith for Benjamin Franklin (whose house he had built) nothing was more secret than the exact location of these *chevaux*; nothing was more highly advertised than the fact that they existed. Their deadly presence caused the invading British to approach the long way around via Chesapeake Bay.

While these frenzied preparations were at their height, Smith was working on the Continental Army barracks at Billingsport (now Paulsboro) New Jersey. In mid-winter his career was brought to a tragic conclusion for, according to the **Pennsylvania Evening Post** for February 13

"Last Tuesday morning MR. ROBERT SMITH, architect, died at his house on Second-street, in the fifty-fifth year of his age, after a tedious and painful indisposition, which he bore with uncommon fortitude and resignation. Yesterday his remains were interred in Friends burying ground, attended by many persons of character. By the death of this worthy and ingenious man, the public have sustained a very heavy loss and his relations and acquaintances have to lament the sincere, steady and affectionate friend"

For more than twenty-five years Robert Smith had designed and erected most of Philadelphia's important buildings. As an architect, builder and engineer he probably had the largest practice of any American professional. Nassau Hall at Princeton and the steeple of Christ Church and Carpenters' Hall in Philadelphia are his best-known works today.

We invite you to show your appreciation of Smith's great contributions to colonial life — including Underwater America. Proceeds to go towards publication.

This lecture is being actively supported by the Carpenters' Company and the Society of American Military Engineers (SAME).

Arrangements by the Friends of the Independence National Historical Park, Alice Lonsdorf, president and John J. Lotz, president-elect, the Carpenters' Company of the City and County of Philadelphia, enjoying the hospitality of Superintendent Hobart G. Cawood. Inquiries: call the Friends (597-2919) or Carpenters' Hall (WA 5-0167).

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ERDA CONTRACTS TO STUDY ENERGY

The Energy Research and Development Administration (ERDA) signed a letter contract on November 16, 1976 with the Engineering Societies Commission on Energy, Inc. (ESCOE), to perform independent and objective evaluations of the design and economics of alternative fossil energy research programs.

The definitive cost reimbursement contract to be negotiated is expected to exceed \$3 million for the initial three year term of work.

ESCOE will recruit a group of highly competent engineers from diverse disciplines to serve on loan from their parent companies or colleges as employees of ESCOE for two years.

The scope of their work will include: coal gasification; direct coal combustion and utilization; combined cycle generation systems; in-situ coal gasification; magnetohydrodynamics; shale oil recovery; enhanced oil and gas recovery; and off-shore oil production.

ESCOE work will involve the presentation of options to ERDA as a result of technical and economic evaluation of process designs, systems, methods and equipment employed in the fossil energy field. These evaluations will assist ERDA in its future course in research, development and demonstration.

In addition to a program manager who can be a civil engineer, ten engineers will be needed as follows: petroleum engineer (1); cost or civil engineer (1); chemical engineers (3); mechanical engineer (1); mining or civil engineer (1); civil engineer (1); materials engineer (1); and manufacturing engineer (1).

ESCOE, a not-for-profit corporation, was organized by four major national engineering societies to perform a public service in the study, investigation and research in areas of energy production, utilization and conservation. The result of its activities will be made available to the general public, the energy community and the government.

The ESCOE Board of Directors is composed of representatives from: The American Society of Civil Engineers (ASCE); The American Society of Mechanical Engineers (ASME); The American Institute of Chemical Engineers (AIChE); and The American Institute of Mining, Metallurgical and Petroleum Engineers (AIME). Arthur J. Fox, Jr., Past President, and Eugene Zwoyer, Executive Director, ASCE, are members of the Board of ESCOE.

The program with ERDA is an outgrowth of Congressional Fellow pro-

grams where engineers have contributed technical expertise to Congressional committees on technology related legislation. In addition, through the Washington, D.C. offices of various engineering societies, testimony has been provided at Congressional hearings on topics such as energy, transportation and environmental concerns.

NATIONAL PUBLIC WORKS WEEK MAY 22 - 28, 1977

Once, again, ASCE and its Sections and Branches is cooperating in a joint venture with the American Public Works Association, announcing NATIONAL PUBLIC WORKS WEEK, May 22 - 28, 1977 and the TOP 10 PUBLIC WORKS MEN-OF-THE-YEAR award program.

The Phila. Section, ASCE is working to develop a local contact with APWA to organize a meaningful and effective celebration activity.

Public works organizations participate by sponsoring local recognition dinners for outstanding officials in their profession, and by planning public tours, dedication ceremonies, and other events to help promote the objectives of this observance. The proceeds from the local recognition dinners provide fellowships for graduate students pursuing advanced degrees in public works administration. The selection of the Top Ten Public Works Men-of-the-Year is one of the highlights of National Public Works Week.

Objectives of National Public Works Week

To increase citizens' understanding of public works—the problems encountered, professional manpower required, and the importance of this governmental service to the current wellbeing and future progress of the community, state, and nation.

To inspire excellence and dedication in public service by recognizing outstanding contributions of individual public works officials.

To encourage talented young people to prepare for careers in public works, and to acquaint them with the challenges and opportunities in the field.

Top Ten Public Works Men-of-the-Year

The annual "Top Ten" awards program was established in 1960 to foster the second major objective of National Public Works Week, the inspiration of excellence and dedication in public service by recognizing the outstanding achievements of individual public works officials.

COMMODORE BARRY'S ... CRACKED BRIDGE PIERS

(Editor's Note: Reprinted editorial from The Evening Bulletin, Jan. 14, 1977. Membership comments are invited. Write to THE NEWS.)

Let's hope the Delaware River Port Authority has better luck with the latest flaws to appear in the Commodore Barry Bridge between Chester, Pa., and Bridgeport, N.J., than the last ones.

Some new cracks have been found, not in the bridge's steel superstructure, but in 11 concrete piers on the span's New Jersey shore. They are described as "hairline cracks" that could be potentially dangerous, but aren't expected to be difficult or too expensive to repair.

It all sounds a little too familiar. Back in 1973, when cracks were found in some of the crossing's steel girders, the repair bill was at first expected to be not much more than \$100,000. But it skyrocketed to \$300,000 and finally reached \$1.2 million.

The Delaware River Port Authority filed lawsuits to recover the costs of special buttressing for the Commodore Barry. There has not been a settlement as yet.

The latest cracks supposedly have resulted from inadequate lengths of reinforcing steel in the concrete piers. What really should have been shored up, it seems, was the port authority's supervision of the Commodore Barry's construction. That way it would have been more certain to get its \$115 million bridge free of flaws.

DIED

Phila. Section Member and ASCE Life Member **Philip H. Carlin** died recently. He was 76 and resided in Berwyn, Pa. Mr. Carlin retired in 1968 as an engineer with the U. S. Navy in New York City. He had also been an engineer for the architectural firm of the late Eero Saarinen in Connecticut. There he helped develop plans for John F. Kennedy International Airport, New York City, and Dulles Airport in Washington. Previously he held positions with other major consulting engineering firms and the Phila. City Planning Commission. Mr. Carlin was editor of CIVIL ENGINEERING magazine 1935-1938.

The Philadelphia Section extends its sincere sympathies to Mr. Carlin's wife, Dorothy; a son, Alan P. and two grandchildren — who survive him.

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