

the news



PHILADELPHIA SECTION

AMERICAN SOCIETY OF CIVIL ENGINEERS

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OUR 67th YEAR

March, 1980

MARCH DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

TUESDAY, MARCH 11, 1980

Engineers' Club, 1317 Spruce Street, Philadelphia

Cocktails — 5:30 P.M.

Dinner — 6:30 P.M.

Meeting — 7:30 P.M.

SUBJECT:

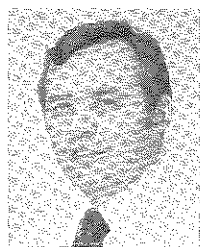
THE SEABROOK NUCLEAR STATION DESIGN AND CONSTRUCTION

SPEAKER:

ALLEN J. HULSHIZER, Supervising Structural Engineer,
United Engineers and Constructors, Inc.

PROGRAM HOST:

DR. ISH K. ANEJA, Chairman, Structural Group



The \$2.6 billion Seabrook Station has a total 2 unit capacity of 2300 Megawatts. The plant utilizes a once through cooling system incorporating the Atlantic Ocean via 7 miles of 22 ft. dia., sub surface hard rock tunnels.

This talk will cover the general design and construction of the plant structures and highlight some of the areas which feature more unique involvements and will be fully illustrated by slides of the construction work, scale rebar models and pictorial graphics. The content of this presentation will be of interest to anyone in the

civil-structural engineering or construction field.

Mr. Hulshizer is responsible for the civil, structural, tunnel and marine engineering work for the Seabrook Station. He received a B.S.C.E. in 1963 from Drexel University and a Master of Science in Civil Engineering from Drexel in 1973.

He is a Registered Professional Engineer in eight states and a Fellow in the American Society of Civil Engineers. Mr. Hulshizer started working for UE&C in 1961, and prior to being transferred to the Power Division of UE&C served for six years as a Supervising Structural Engineer in the Industrial Division on a variety of projects involving heavy industrial construction.

SPECIAL FEATURE:

WIDENER COLLEGE NIGHT

The ASCE Student Chapter, faculty and alumni of the Engineering Division of Widener College will be honored at this meeting. All students, faculty, alumni and friends are cordially invited to attend.

No Dinner Reservation Mailing Cards will be sent until further notice. Please call Mr. deKovacs at the Engineers' Club immediately. (215) 735-5234.

NEXT MONTH'S MEETING

MARK YOUR CALENDAR

JOINT MEETING

PHILA. SECTION ASCE

Phila. Post, Society of American
Military Engineers

Tuesday, April 8, 1980

Engineers' Club

Dinner Meeting—Cocktails 5:30 P.M.

Subject: To Be Announced

Speaker: **David L. Gunn**, General
Manager, SEPTA

Program Host:

Willard R. Whitbred, Jr.
Chairman, T. & U. D. Group
Univ. of Pa. Night

PLAN NOW

The
ANNUAL SPRING SOCIAL

SUNDAY, MAY 4, 1980

Bala Golf Club
50th St. & Woodbine Ave.
Philadelphia

COCKTAILS: 5:00 P.M.

DINNER: 6:00 P.M.

DANCING and FUN!

STUDENTS — Plan to attend for Dinner (Half Price) or meeting after Dinner.

MEMBERS IN THE NEWS

Hall Appointed to Zoning Post

Roland W. Hall has been appointed Acting Chief of Zoning Section of the Department of Licenses and Inspections, City of Philadelphia.

Congratulations to Mr. Hall from the Phila. Section and its best wishes for success in his challenging new job.

*

Nugent and Meisel Represent AAA

Former Phila. Section Director M. Charles Nugent and Member Donald D. Meisel, construction specialists of the American Arbitration Association, were principals at the recent Annual Luncheon Meeting of the AAA's National Construction Industry Arbitration Committee, held in New York City. NCIAAC has ten member organizations.

There are 18,875 construction arbiters on the AAA's national panel. The number of construction cases filed with the AAA — most of them involving business failures — quadrupled from 504 in 1967 to 2,042 in 1978. The latter figure involved \$130 million in claims and counterclaims.

TECHNICAL GROUP ACTIVITIES

HYDRAULICS and SANITARY

Date: Wednesday, March 26, 1980

Luncheon - 12:00 Noon - Engineers' Club

Subject: Energy Management and Conservation in Water Pollution Control Plants

Speaker: Dr. John Andrews
University of Houston

Program Host: Clyde Younkin,
Vice-Chairman, H & S Group

WOMEN'S AUXILIARY

March Meeting

The next regular monthly Luncheon Meeting of the Auxiliary will be held at the Engineers' Club on Wednesday, March 19, 1980. Principal Speaker Ms. Janice DiCampi will demonstrate and describe bread dough crafts on the evocative subject: "What You Can Do With A Little 'Dough'."

All Auxiliary Members and their guests are cordially invited to attend.

SCHNABEL SEEKS ENGINEER

"Schnabel Foundation Company is looking for a Geotechnical Engineer experienced in foundation construction. Must be willing to work in field and travel throughout Northeastern states. Send resume to:

Schnabel Foundation Company
315 Hertzog Boulevard
King of Prussia, Pa. 19406
Attn.: Mr. James W. Sigourney, V.P.

ATTENTION - SECTION MEMBERS

If your job location, business or residential address for mailing is changed; or if you move out of the Philadelphia Section area jurisdiction; or if you do not receive Section mailings (THE NEWS, special notices, etc.), please notify Secretary Albert M. Tantala, c/o Tantala Associates, 4903 Frankford Ave., Phila., PA 19124 — Phone: (215) 289-4600.

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IMPORTANT !! Remaining Meeting Dates

THE NEWS is now being mailed at Non-Profit Organization Bulk Rate. While this promises postage savings to the Section, it also runs the risk of much longer delivery time from your local post office to your mail box. Therefore, please refer to your 1979-1980 Section Program Schedule and mark your calendar for all meetings and social functions. Listed below is a summary of remaining meeting dates.

Tuesday, March 11, 1980 — Section Dinner Meeting
Engineers' Club — Widener College Night

Tuesday, April 8, 1980 — Section Dinner Meeting — Engineers' Club
Joint Meeting with Society of American Military Engineers (SAME)
University of Pennsylvania Night.

SUNDAY, MAY 4, 1980 — Annual Spring Social — Bala Golf Club
CHANGED DATE — (see explanation elsewhere in this issue)

Time schedules for Dinner Meetings at the Engineers' Club are:

Cocktails — 5:30 P.M. Dinner — 6:30 P.M. Meeting — 7:30 P.M.

NOTE: NO RESERVATION CARDS WILL BE SENT UNTIL FURTHER NOTICE; PLEASE CALL MR. deKOVACS AT THE ENGINEERS' CLUB — 735-5234 AS SOON AS POSSIBLE.

Mail all copy for THE NEWS to Editor Sidney Robin, 64 Nancy Drive, Richboro, Pa. 18954 — Phone (215) 322-7464. See deadline date, bottom of page 2.

Have you mailed in your National and Phila. Section dues to New York Headquarters yet? If not, please do so NOW! Our very life depends on it!!

**COPY DEADLINE FOR
APRIL, MAY, 1980 ISSUE
MARCH 8, 1980**

NOMINATIONS FOR OFFICE 1980 — 1981

In accordance with the Constitution and By-Laws of the Philadelphia Section, ASCE, the Nominating Committee appointed by President Kenneth J. Zitomer has submitted the following slate of nominees for elective office for 1980-1981:

President —

Joseph R. Syrnick (one year)

1st Vice President —

Frederic Roll (one year)

2nd Vice President —

Bernard M. McNamee

Secretary —

Albert M. Tantala (two years)

Treasurer —

Theodore Davis (two years)

Assistant Treasurer —

Charles J. Denny (one year appt.)

Director —

Ish K. Aneja (two years)

Director —

Harold G. Byers (two years)

Director —

John Durrant (two years)

Director —

Reading Branch representative appointee to be announced.

Offices in which incumbents have one more year to serve are:

Assistant Secretary —

William M. Malarkey

Membership Secretary —

Judy Y. Longfield

Directors —

John W. Carroll

James D. Leasure

David M. Barr, III

Past Presidents to serve on the Board of Directors are:

Brian J. Lewis

Celestino R. Pennoni

Kenneth J. Zitomer

If no additional nominations have been submitted to the President in accordance with the Section's Constitution and By-Laws and filed with the Secretary by April 1, 1980, the above slate of nominees shall be declared elected at that time and will be installed at the Annual Spring Social at Bala Golf Club, May 4, 1980.

The Nominating Committee included: Celestino R. Pennoni, Chairman; Judy Y. Longfield, Robert M. Koerner, Joseph R. Syrnick, Sidney Robin.

FEBRUARY MEETING

The February 19, 1980 meeting of the Philadelphia Section, held jointly with the Section's Women's Auxiliary at the Engineers' Club, featured an address by **John C. Mitkus**, Executive Director of the Philadelphia City Planning Commission. Mr. Mitkus' subject was: **Planning for Philadelphia — A Brief Look at the New Decade**. The Section's Program Committee Chairman, **Norman G. Weintraub**, was Program Host. Specially honored at the meeting were the ASCE Student Chapter, faculty and alumni of the Engineering Division of Swarthmore College.

Because this issue of THE NEWS went to press before the date of the February meeting, a detailed writeup will appear in the April-May issue.

LONG SPAN CONCRETE BRIDGE CONFERENCE

A Long Span Concrete Bridge Conference will be held in Hartford, Connecticut, **March 18 and 19, 1980**.

The purpose of this conference is to present and discuss the latest information on design, construction, and economics of long span concrete bridges. Areas of discussion will include design case studies, design specifics, construction, and bidding and contract arrangements.

Discussions will include the Clarence L. Gosse Bridge over the Shubenacadie River in Nova Scotia, the Denny Creek Bridge in Washington, the Long Key Bridge in Florida, the Wabash River Bridge in Indiana, and others in the U. S. and Canada.

This conference is specifically designed for bridge engineers with State, Provincial, Federal, and local transportation agencies; toll bridge and toll road authorities; and railroads. Consulting engineers, contractors, concrete producers, and civil engineering professors will also profit by attendance.

The Program Committee for the Conference is made up of representatives of the bridge committees of the American Society of Civil Engineers, Transportation Research Board, American Concrete Institute, Prestressed Concrete Institute along with the co-sponsors of the conference who are the Federal Highway Administration, Portland Cement Association, Prestressed Concrete Institute, Post-Tensioning Institute, and Concrete Reinforcing Steel Institute.

For further information and registration details, contact Gordon K. Ray, Divisional Director, Public Works Division, Portland Cement Association, 5420 Old Orchard Road, Skokie, Illinois 60077.

ASCE REJECTS SOVIET EXCHANGES

National ASCE President Joseph S. Ward has announced that all engineering and scientific exchanges with the Soviet Union have been halted by the American Society of Civil Engineers.

"The initial effect is the rejection by ASCE of a Soviet offer to participate in an exchange of engineering delegations in 1980 until the U.S.S.R. ends its occupation of Afghanistan," Mr. Ward said. The invitation by the U.S.S.R. All-Union Council of Scientific and Engineering Societies was extended to the American Association of Engineering Societies, an umbrella organization of 22 engineering societies. The ASCE is the first member of the Association to decline the invitation.

"These decisions reflect the concern of our 78,000 members about giving Soviet scientists technical and scientific information," Mr. Ward said.

"Under normal conditions, we encourage international exchanges, and in fact participated in such an exchange of visits in 1974," he added. "But we cannot in good conscience provide them with the fruits of our expertise during the current situation which threatens world peace. We have taken this step to support President Carter's response to the latest Russian actions."

FEDERAL CONTRACT MANAGEMENT COURSE

The Department of Civil Engineering of Catholic University, in cooperation with the American Society of Professional Estimators, is offering a course entitled, **"Techniques for Managing the Federal Construction Contract"**. It will be given in Arlington, Va., on April 10-11, 1980 and repeated in Boston, Mass., on April 17-18, 1980.

This course is intended for Contractors, Engineers and Architects, Government Officials, Estimators and Subcontractors.

The instructors, Harry Spradlin and Tony Warner, are Washington based experts who will stress practical techniques which will allow you to comply profitably. Special emphasis will be placed on Contractor Rights, Remedial Resources, CPM Scheduling, Change Orders, Documentation, Resolution of Claims and Negotiation Skills. The cost of the course is \$425. CEU's will be awarded. For further information phone (202) 635-5191.

Take THE NEWS home. Your wife will be interested in the Women's Auxiliary activities!

PUBLISH YOUR PAPERS

ASCE Members and Associates in the Civil Engineering and public communities are invited to present papers for possible publication in the ASCE "ISSUES IN ENGINEERING".

Engineers in private and public practice now have a custom-designed publication medium. Section/Branch Officers should take every opportunity to pass along this information and encourage members to participate and subscribe.

In addition, speakers at Section/Branch meetings should be invited to prepare papers for the meetings and for possible publication in the internationally distributed "ISSUES IN ENGINEERING".

Annual subscriptions to "ISSUES IN ENGINEERING" are \$7.50 for ASCE members, \$22.50 for non-members.

Mail papers and subscriptions to ASCE headquarters, 345 E. 47th St., New York, N. Y. 10017.

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Phila., PA 19102
(215) 546-7442

MR. WARD'S MESSAGE

Editor's Note: Following is Part 3 of some significant excerpts from the Inaugural Speech of ASCE President **Joseph S. Ward** at the ASCE Annual Convention and CEExpo, Atlanta, Georgia, October 24, 1979. THE NEWS considers the points of Mr. Ward's remarks of concern and interest to all ASCE members.

In our society, public decisions are the result of many competing voices from many different special interest groups — economic, social, political, ideological. Up until now, the so-called "special interest group" of civil engineering has not been heard often enough, or loud enough, in the public debate on energy. Too often, our contributions are relegated to talking to ourselves or to some back room or corner drafting table — and likely as not overlooked or downgraded, in the final analysis, by the policymakers.

I submit that we can't allow that to happen any longer; that we, too, are an effected public — a special interest group, if you will — and that we owe it to ourselves and to our profession to speak out on issues that vitally affect us. We, ourselves, are affected as citizens. As engineers, as members of ASCE and similar professional associations, we will be the ones finally responsible for implementing energy decisions: synthetic fuel development, increased extraction and transportation of coal; the growth of geothermal developments; the design and construction of solar collectors, nuclear power plants, LNG terminals, refineries, pipelines, transmission lines . . . or any other facilities required by energy technologies as yet undreamed of.

* * * * *

It's a fact of life in a democracy that all major issues ultimately become political issues, and are resolved through the political process. This somehow goes against our "engineering nature" — if there is such a thing — and our natural inclination has been to avoid it, to keep ourselves somehow "above" politics. We don't have the luxury any longer. As individual professionals, and as an organization of civil engineers, we must enter the public arena — the political arena — with two goals in mind:

First, we must help convince the public that the Energy Crisis is real; that we are in fact running out of cheap energy; that recent actions by the oil-producing cartel haven't been helpful, but that our energy problems certainly run far deeper than that. We must spread the word that economic and social impacts of developing alternative

D.O.E. REPORT AVAILABLE

A draft final report of the findings of the Nonproliferation Alternative Systems Assessment Program (NASAP) has been prepared by the Division of Nuclear Alternative Systems Assessment within the Office of the Assistant Secretary for Nuclear Energy. This report is being made available for public review and comment.

The goal of the NASAP study has been to provide recommendations for the development and deployment of more proliferation-resistant civilian nuclear power systems and institutions without jeopardizing the development of nuclear energy.

NASAP has focused primarily on evaluating the proliferation resistance of alternative nuclear systems. Other assessments were also completed, including: energy needs of other nations; the amount and availability of uranium and other resources, and the ways to use them more efficiently in nuclear systems; safety and environmental considerations for licensing; and the economic and commercial attractiveness of the alternative nuclear systems. The analyses were limited to civilian nuclear power systems and their associated fuel cycles.

Copies of the NASAP Report may be obtained from:

Department of Energy
Technical Information Center
P. O. Box 62
Oak Ridge, Tennessee 37830
Attention: **NASAP Report**, DOE/NE-0001

Comments may be sent to Dr. Hugh Kerdick of the above address, Attention: **NASAP Report**.

sources will be significant. ASCE is already planning a nationwide program of public information during the coming year.

Our second goal in entering the public debate on energy is to influence the broad political leadership in this country — in Washington, in the statehouses, at the local level.

* * * * *

If we want ASCE to have a strong voice in the future, to be a vital force in the 21st Century, then we'd better find ways to get the younger members actively involved in all of the organization's activities. We'd better show the same foresight as our predecessors in the ASCE did!

As the local level, of course, younger members should be encouraged to volunteer for committee work; they can contribute to many different operations of the Local Sections and Branches.