

the news



PHILADELPHIA SECTION
AMERICAN SOCIETY OF CIVIL ENGINEERS

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OUR 70th YEAR

March, 1983

MARCH DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

TUESDAY, MARCH 8, 1983

Engineers' Club, 1317 Spruce Street, Philadelphia

Cocktails — 5:30 P.M.

Dinner — 6:30 P.M.

Meeting — 7:30 P.M.

SUBJECT:

ENGINEERING IN OUTER SPACE: Spacelab and the Space Shuttle

SPEAKER:

JACK DICKINSON, Lead Systems Development Engineer, General Electric Company Space Systems Division; and former Project Manager for NASA on the Spacelab Program, Kennedy Space Center.



The Spacelab and Space Shuttle projects hold great promise for our nation's technological development. They also give special challenges and opportunities to civil engineers. They are mankind's newest space adventures; and attendees will get a first hand, up-to-the minute picture of how they were developed, where the future opportunities are, and what it all means.

Mr. Dickinson will discuss what lies beyond the space station; how large structures are built in outer space; all about fault detection and automatic fault correction.

He will also discuss construction problems in outer space including ways and means of piecing 60 foot by 15 foot diameter maximum component payloads into space structures.

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APRIL JOINT MEETING

Philadelphia Post, Society of American Military Engineers

Philadelphia Section, American Society of Civil Engineers

WEDNESDAY, APRIL 13, 1983

The Officers' Club, Philadelphia Naval Base

Cocktails — 5:30 P.M.

Dinner — 6:30 P.M.

Meeting — 7:30 P.M.

SUBJECT:

HAZARDOUS WASTE DISPOSAL

SPEAKER:

COMMANDER JOHN GEOFFREY LEECH, Civil Engineers' Corps, United States Navy; Assistant Director, Environmental Policy, Dept. of Defense, The Pentagon, Washington, D.C.

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TECHNICAL GROUP ACTIVITIES

Geotechnical

March Meeting

Date: Tuesday, March 15, 1983

Engineers' Club—7:00 p.m.

Subject: **Solute Transport Modeling**

Speaker: **Dr. Leonard F. Konikow**

Research Hydrologist, U. S. Geological Survey, Reston, Virginia

Program Host: **Dr. Z. I. Husami**

Chairman, Geotechnical Group

Refreshments are served

Solute-transport models can be used to predict temporal and spatial changes in the concentration of dissolved chemicals in flowing groundwater. The models solve an equation that can include the effects of (1) convective transport, (2) hydrodynamic dispersion, (3) sources and sinks, and (4) chemical reactions. Because these effects are strongly related to the flow field, the solution to the transport equation must usually be coupled with a solution of the groundwater flow equation.

Leonard F. Konikow received his B. A. in Geology from Hofstra University, and his M.S. and Ph.D. from Pennsylvania State University. He has been affiliated with the Water Resources Division of USGS in Lakewood, Colorado, and Reston, Virginia since 1971.

Dr. Konikow is Chairman of the American Geophysical Union (AGU) Groundwater Committee and serves on the Nominating Committee for Section Fellows and Section Officers of the AGU Hydrology Section. He is also associate editor of **Water Resources Research** and a member of the Geological Society of America. Dr. Konikow is the author of several papers on solute transport modeling.

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**ENGINEERING MANAGEMENT
TECHNICAL GROUP
FOUNDER'S MEETING**

As the flyer enclosed with this issue of THE NEWS calls to your attention, the newly established **Engineering Management Technical Group** of the Phila. Section will have a Founder's Meeting on **Wednesday, March 16, 1983** at the Engineers' Club in Philadelphia. The guest speaker for this meeting will be **William Grover**, Director of Facilities for AETNA Life and Casualty in Hartford, Connecticut. Mr. Grover will discuss the trials and tribulations of managing a multi-prime contractor construction project.

Mr. Grover, a graduate of the University of North Carolina in 1962, has had many years of experience working with engineers and contractors. He is currently project manager of a \$140 million facility, covering 268 acres, that will house nearly 5000 AETNA employees.

Attend the meeting and become a

MARCH DINNER MEETING

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Mr. Dickinson holds a B.S. Degree from the University of Rochester and a Masters in Business Administration from Florida State University.

SPECIAL EVENT:

PRESENTATION OF LIFE MEMBERSHIP CERTIFICATES

SPECIAL FEATURE:

UNIVERSITY OF PENNSYLVANIA NIGHT

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

Please call Mr. deKovacs at the Engineers' Club immediately (215 735-5234), for reservations.

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

APRIL JOINT MEETING

(continued from page 1)

Commander Leech is responsible for the development and implementation of the Department of Defense (DoD) environmental program for the prevention, control, and abatement of pollution, and the DoD natural resources program. He provides DoD Executive level representation to Legislative, State, local, and private pollution control elements, to include DoD liaison with the Council on Environmental Quality, the Environmental Protection Agency, the Department of the Interior, and environmental officials within other agencies.

IMPORTANT NOTE: Please call **Mr. Edwin Kucerik**, Secretary of S.A. M.E. immediately and reserve your ticket - (215) 597-0456, 0457.

STUDENTS — HALF PRICE FOR DINNER. Please call Mr. Kucerik for reservations as noted above and identify yourself as a student. Phila. Section will pay S.A.M.E. one-half of cost of your dinner.

TECHNICAL GROUP ACTIVITIES

(continued from page 1)

Geotechnical (continued)

April Meeting

Date: **Tuesday, April 19, 1983**
Engineers' Club — 7:00 P.M.

Subject: **Ground-water Monitoring**

Speaker: **Mr. D. Miller**, Senior Vice President, Geraghty & Miller, Inc., Suosset, NY

FOUNDING MEMBER of the Engineering Management Technical Group of the Philadelphia Section ASCE. Cocktails will be served starting at 5:30 p.m., followed by dinner before the meeting. Dinner will be \$9.00. Call the Engineers' Club for reservations. — (215) 735-5234.

For more information contact:

Susan Lior, Chairperson
c/o T. J. Trauner Associates
Widener Bldg. - Chestnut at Juniper
Philadelphia, PA 19107
(215) 854-0887

Program Host: **Dr. Z. I. Husami**,
Chairman, Geotechnical Group
Refreshments are served

Structural

March Meeting

Joint Dinner Meeting with Transportation and Urban Development Group

Date: **Thursday, March 24, 1983**
Engineers' Club—Cocktails: 5:30 p.m.
Dinner: 6:30 p.m.—Meeting: 7:30 p.m.

Subject: **Second Greater New Orleans Bridge**

Speaker: **Dr. John Kulicki**, Modjeski & Masters, Harrisburg, Pa.

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**PHILA. SECTION, ASCE
OFFICERS 1982 - 1983**

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SEND COPY TO:
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64 Nancy Drive
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Phone: (215) 322-7464

**COPY DEADLINE FOR
APRIL, 1983 ISSUE
MARCH 8, 1983**

TECHNICAL GROUP ACTIVITIES

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Structural (continued)

Program Co-Hosts: **Stephen H. Golden**, Chairman, Structural Group

David A. Novick, Chairman Transportation & Urban Development Group

Designed by Load and Resistance Factor Design (LRFD) (see February 24, 1983 meeting announcement), the discussion will embrace both the design and transportation aspects of the Project.

April Field Trip

Date: **Saturday, April 16, 1983**

Field Trip to the Limerick Nuclear Generating Station, Philadelphia Electric Company

The trip includes a one-hour briefing by PECO personnel and a 1 1/2 hour tour of the construction site. **The trip is limited to 40 people only — and admission will be by written reservations only.** Please contact **Steve Golden**, c/o Pennoni Associates, Inc., 1911 Arch St., Phila., PA 19103. (215) 561-0460. Attendees will be required to provide their own transportation to the site. No one below age 18 will be permitted in the construction area.

Transportation and Urban Development

March Joint Dinner Meeting with Structural Group

Date: **Thursday, March 24, 1983**

(see details under **Structural Group**)

March Field Trip

Date: **Saturday, March 26, 1983**

Meeting Place: **Budd Company**, 1 Red Lion Road, near Verree Road (west of Roosevelt Blvd.), Philadelphia — **9:30 A.M.**

Subject: **Tour of Budd Company Rapid Transit Car Manufacturing Facilities**

Program Host: **David A. Novick**, Chairman, Transportation and Urban Development Group

The Budd Company is in the process of manufacturing rapid transit cars for Baltimore, Chicago and New York. This is a unique opportunity to see the manufacturing process. **We will assemble at 9:30 A.M. sharp at the main lobby entrance to the plant.** Parking is available across the street (south side of Red Lion Road). Dress casual. Wear comfortable, closed-toed shoes. The tour should last about two hours.

Please Note: For safety reasons, persons under eighteen years of age cannot be accommodated.

Reservations: If you are planning to attend, please call **Ann Marie Collins** (at Mr. Novick's office) at (215) 988-0696 **no later than March 16.** For additional information, call **Sheldon Kinbar** at (215) 597-4179.

**CENTRAL PA. SECTION
GEOTECHNICAL CONFERENCE**

The Central Pennsylvania Section, ASCE, in cooperation with the PA Dept. of Transportation (PennDOT), is conducting a Conference on the subject: **"Recent Advances in Geotechnical Engineering,"** on **April 7 & 8, 1983**, at the Marriott Inn, 4650 Lindle Road, Harrisburg, PA 17111.

Topics to be covered in the seminar include:

Wickdrains; Root Piles; Soil Nailing; Reinforced Earth; Applications of New Systems; Geotextiles; Acoustic Emissions; Retained Earth; State-of-the-Art and Panel; Discussion.

The registration fee is \$95.00, which includes one copy of Proceedings, one dinner and coffee. Enrollment is limited. For full information and registrations, contact **Umakant Dash**, Chairman, Organizing Committee, c/o PennDOT, P. O. Box 2926, Harrisburg, PA 17120; Phone: (717) 787-4266, 787-2054.

**METROPOLITAN SECTION
STRUCTURES SEMINAR**

The Annual Seminar of the Structures Group of the Metropolitan Section, ASCE will take place on **April 6, 7, 12 and 14, 1983**, at the United Engineering Center, 345 E. 47th St., New York, NY. The sessions are from 6:00 to 9:00 P.M. (except April 6th starts 5:45 P.M.)

The general topic of the Spring Conference is **"Structural Failures."** The Seminar will present information on reasons for structural failures, their legal consequences, and how they can be avoided. It is intended for engineers and others involved in design of new structures or inspection and rehabilitation of existing structures. Participants will receive a set of reference notes; and refreshments (no meals) will be served.

Subjects to be discussed include: Long Span and Conventional Structures; Causes of Long-Span Failures; Space Frames and Fabric Structures; Causes and Prevention of Conventional Structure Failures; Legal Consequences; Scope of Services; Insurance; Legal Aspects; Facades; Theory, Design and

**NOMINATIONS FOR OFFICE
1983 — 1984**

In accordance with the Constitution and By-Laws of the Philadelphia Section, ASCE, the Nominating Committee appointed by President Bernard M. McNamee has submitted the following slate of nominees for elective office for 1983-1984. (The slate was announced at the February 8, 1983 Section Dinner Meeting).

President —

William M. Malarky (one year)

1st Vice-President —

John E. Durrant (one year)

2nd Vice-President —

Ira N. Pierce (one year)

Membership Secretary —

Thomas J. Lauer (two years)

Director —

David A. Novick (two years)

Director —

Norman G. Weintraub (two years)

Director —

Richard E. Woodring (two years)

Director — Reading Branch representative appointee to be announced.

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

Secretary — **Albert M. Tantala**

Asst. Secretary — **Edward Lutz**

Directors —

Klaus K. Fuelleborn

Dennis J. Mohan

Ira N. Pierce

Past Presidents to serve on the Board of Directors are:

Joseph R. Synchron

Frederic Roll

Bernard M. McNamee

If no additional nominations have been submitted to the President in accordance with the Section's Constitution and By-Laws by April 1, 1983, the above slate of nominees shall be declared elected at that time and will be installed during the ASCE National Spring Convention at the Franklin Plaza Hotel, Philadelphia, May 16 - 20, 1983.

The Nominating Committee included: Frederic Roll, Chairman; William Malarky; Sidney Robin; Joseph R. Synchron and Kenneth Zitomer.

Inspection; Contractor's Viewpoint; Preventive Design; Bridge Structures.

Registration fee is \$75.00 for ASCE members; \$80.00 for non-ASCE members; \$25.00 for full-time students. For full information and registration, call: **Arnold Kline**, (212) 464-2400; or **Andrew Herrman**, (212) 944-2000. Mr. Herrman's office address is c/o Hardesty and Hanover, 1501 Broadway, New York, NY 10036.

FEBRUARY MEETING

February 8, 1983 Engineers' Club

Clear Air in Philadelphia

The Philadelphia Section February Meeting featured as principal speaker **Ronald J. Roggenburk**, Supervisor of Environmental Program; and Project Manager of Transportation and Air Quality Group, Delaware Valley Regional Planning Commission (DVRPC). Mr. Roggenburk's topic was: "**Planning for Clean Air in Philadelphia: The Potential of Public Transit.**"

Swarthmore College Night

The meeting spotlighted the ASCE Student Chapter, alumni and faculty of the Civil Engineering Department of Swarthmore College. Student Chapter President **Robert Lally** introduced his fellow officers:

Vice President — **Kevin Greene**
Secretary — **Philippe Dintrans**
Treasurer — **Lynn Fryer**

Mr. Lally also acknowledged the presence of several Swarthmore C. E. students and alumni. He reviewed Senior Projects structural designs, methods and arrangements, including sophisticated systems analysis, solar energy studies, and several other academic and technical specialties; concrete canoe design and construction, with an eye toward the Spring races on the Schuylkill; and other recently accomplished and planned Student Chapter activities.

Professor Willis Speaks

ASCE Student Chapter Faculty Advisor at Swarthmore and long-time dedicated Phila. Section Active Member, Professor **M. Joseph Willis** thanked the Section for honoring Swarthmore at the meeting. He described recent administrative changes at the College, highlighted by the installation for the first time of a scientist as President. He spoke of the faculty-recruitment difficulties because of the high academic and technical requirements of the Engineering School.

Professor Willis introduced the newest specialist addition to the Civil Engineering faculty staff: Professor **Faruq Siddiqui**. Dr. Siddiqui described the new graphics and computer programs terminology and hardware courses already introduced and planned for expansion at Swarthmore under his direction.

Professor Willis reviewed current and future developments in the civil engineering curricula, and varied research projects under way at the School.

Mr. Roggenburk and Clean Air

Ronald J. Roggenburk, who was designated to his present position at DVRPC in 1980, is presently engaged in coordinating the implementation of 25 strategies to reduce emissions from motor vehicles in the Philadelphia Region. He listed the various studies under way at DVRPC, funded by the Federal Environmental Protection Agency (EPA) in connection with the Clean Air Quality Act legislated by Congress in 1978.

He explained the problems engendered by the combined chemicals, principally hydrocarbons, which form smog and inflict damage upon human respiratory systems and vegetation. Federal motor vehicle control legislation has reduced auto emission of hydrocarbons, said Mr. Roggenburk, and a successful program of emissions inspection has been established in New Jersey. Unhappily, similar programs for Pennsylvania have been stubbornly resisted in the Commonwealth's legislative chambers.

Effectiveness of Mass Transit Improvements

Mr. Roggenburk detailed DVRPC's extensive analyses of mass transit strategies to achieve the targets, envisioned in the Act, by 1987. Some of these important strategies include:

1. Eliminating entirely, where possible, auto trips — as an alternative even to shortening trips — via mass transit methods.
2. Reducing travel to and from work in the morning and afternoon rush hours. These concentrations of emissions of slugs of hydrocarbons are among the most acute environmental offenders.
3. The importance and significance of the variables affecting attraction of public ridership to mass transit. These variables embrace cost, privacy, convenience, safety, vehicle appearance, etc.

Mr. Roggenburk said that DVRPC conducted a six-year mass transportation study which analyzed programmed projects involving replacement of obsolete vehicles, such as buses and subway cars. Twenty significant mass transit modes would eliminate hundreds of thousands of motor vehicles from the highways and streets — and many kilograms of hydro carbons per day. Several of the projects were selected for detailed study and development. These include:

"**Transpasses**" — a cost-saving commuter ticket system for riders.

Premium bus service — designed to equal commuter rail travel in attractiveness, cost and route-selectivity. Featured would be uniformed drivers, comfortable new seats, and frequency of trips on routes in greatest demand. The negative aspect in this program, pointed out Mr. Roggenburk, is that it was not efficient to the optimum, and should be categorized as a reserve system only.

Fare Reduction Systems

More appealing to mass transit advocates than other usual schedules of fare reductions, said Mr. Roggenburk, are **seasonal fare specials**. By this method, riders would gain the advantage of greater savings overall than the other types of fare concessions. Emissions of hydrocarbons would decrease substantially if appropriate routes could be established on meaningful experimental bases.

Mr. Roggenburk produces statistics regarding salutary effects of the Clean Air Act. Highway auto traffic emissions accounted for one-half of all pollution before passage of the Clean Air Quality Act of 1978. At the present time the proportion is one-third, and by the EPA target date of 1987 it is anticipated that only one-third of all air pollution will be attributable to auto emissions.

In summary, Mr. Roggenburk is convinced that public transportation, if enhanced and improved, would contribute not only to the environmental betterment and health of the City, but would also help tremendously toward an improved quality of life in Philadelphia. He commends DVRPC for its effective research in these critical areas.

Questions and Answers

In an interesting question and answer period following his talk, Mr. Roggenburk responded to audience questions and comments:

Regarding pollution effects of fuels other than gasoline, such as gasohol, propane and hydrogen — in general, he concludes, pollution emissions increase with these latter fuels.

Pollution from stationary sources (factory smokestacks, etc.), has been effectively controlled — if not entirely eliminated — by the Philadelphia Department of Public Health, said Mr. Roggenburk.

Also discussed was auto emissions control equipment being installed at the present time and anticipated for the

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FEBRUARY MEETING

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future; maintenance procedures and enforcement inspections when finally legalized.

For his excellent presentation, President Bernard M. McNamee awarded Mr. Roggenburk the Section's Certificate of Appreciation and a copy of the Philadelphia Section's 1976 National ASCE Bicentennial Celebration Convention publication: "The History of Civil Engineering and Construction in the Delaware Valley."

UPGRADING MEMBERSHIP

Now is the time for all ASCE Affiliate and Associate Members and Members to consider **UPGRADING** their membership.

The **NEW** criteria and qualifications for each membership grade are detailed on pages 230, 231 and 232 in the 1983 ASCE Official Register.

The common requirement in all upgrading is that there be a **voluntary** application from persons qualified under the ASCE Constitution for such membership in specified grades.

You must begin the process to UPGRADE YOUR ASCE MEMBERSHIP by submitting a completed form. (copies available from your Section/Branch Secretary or ASCE Headquarters).

Now is the time don't delay.

* * * * *

Enroll in Divisions/Councils

Many members of ASCE are not receiving optimum benefit from the Society's program of technical activities. Are you enrolled in all of the Technical Divisions or Councils that interest you? To assure notification of pertinent technical activities, just list all such Divisions or Councils in which you're interested. Remember: you can indicate as many affiliations as you wish — at no extra cost.

WOMEN'S AUXILIARY

March Meeting

The Philadelphia Section's Women's Auxiliary resumes its 1982-83 season after the January-February winter break with a Luncheon-Meeting on **Wednesday, March 16, 1983, 12:00 noon** at the Engineers' Club. Principal speaker will be **Erica (Mrs. Victor A.) Marcus**, long-time dedicated Auxiliary member, who will present a slide-illustrated talk on the Marcus' recent travels in the Far East. (NOTE — This meeting topic was originally scheduled



Convention Update

The 1983 ASCE National Spring Convention
MAY 16 - 20, 1983

Franklin Plaza Hotel, Philadelphia

The first National ASCE Convention to be hosted by the Philadelphia Section since the Bicentennial Convention of 1976 is almost upon us. On May 16th we will start a week that will not only include important tours of Philadelphia's largest construction projects, and technical papers to promote innovation in our thinking and our design, but also a week of gala festivities. These will include:

AN ICE BREAKER COCKTAIL PARTY AT THE FRANKLIN PLAZA HOTEL ON MONDAY NIGHT

A NIGHT AT THE ACADEMY OF MUSIC WITH THE PHILADELPHIA FESTIVAL CHORUS AND ORCHESTRA ON WEDNESDAY NIGHT

TOURS OF PHILADELPHIA — BOTH DAY AND NIGHT

TRIPS TO ATLANTIC CITY

AND MANY ACTIVITIES FOR THE LADIES, AND EVEN THE GENTLEMEN, IF THEY CAN PULL THEMSELVES AWAY FROM INTELLECTUAL AND PROFESSIONAL ACTIVITIES FOR JUST A LITTLE WHILE.

Technically, this Convention will afford us the opportunity to tour several of the major projects that most of us have only read about up until now. These projects include:

"THE CENTER CITY RAILWAY COMMUTER TUNNEL"

"THE AIRPORT HIGH SPEED LINE"

"I-95 EXTENSION TO THE AIRPORT"

"SOUTHWEST WATER POLLUTION CONTROL PLANT"

"LIMERICK GENERATING STATION"

All of these projects have been newsworthy both locally and nationally for the last 5 to 10 years. Now you can tour all of them within just a few days.

As we go to press, New York Headquarters promised to have a condensed flyer of the complete Convention Program inserted with this issue of THE NEWS. If the flyer is not inserted, please refer to the February, 1983 issue of CIVIL ENGINEERING Magazine for the full Program.

Registration forms will soon be in the mails for all ASCE members. These will provide full details of the Technical Sessions and Seminars, Continuing Education Programs; spouse activities and hospitality accommodations; City tours and area road trips; special Breakfasts, Luncheons and Dinners; entertainment functions; Student Activities; and Post-Convention events and programs.

Plan to attend and encourage all of your friends and associates to attend. Remember May 16th is getting closer.

SO — MARK YOUR CALENDAR AND SCHEDULE YOUR TIME NOW TO TAKE FULL PART IN THE 1983 ASCE NATIONAL SPRING CONVENTION, MAY 16 - 20, 1983, FRANKLIN PLAZA HOTEL, PHILADELPHIA — HOSTED BY THE PHILADELPHIA SECTION, ASCE.

If you want additional information call **Leo O'Connor** at 215 561-0460.

on the Women's Auxiliary printed program for April 20, 1983. The two meeting topics have been reversed.)

April Meeting

The April Luncheon-Meeting of the Auxiliary featuring the Phila. Academy of Music will be held on **Wednesday, April 20, 1983, 12:00 noon**. Details of this meeting will be announced in the April, 1983 issue of THE NEWS.

Wives of Section members are cordially invited to attend all Auxiliary meetings, to join the organization and

to bring guests. For full information about joining, please call Membership Secretary **Marie (Mrs. Kenneth J.) Zitomer** (215) 548-5324.

ATTENTION GOLFERS

Looking to improve your game? ASCE "Top Flite" Golf Balls are now available . . . \$25.00 per dozen. An ideal gift. Order today from **INDIANGIVER**, 330 Maple Avenue, Westbury, NY (PREPAID ORDERS ONLY). Add \$3.00 to cover handling and postage.

IMPORTANT CONTACT DATA

In response to requests from Phila. Section members for information on membership mailings, contacts with Officers and Board of Directors, Technical Group chairmen, and other general business, THE NEWS will henceforth (starting with this issue) publish as part of the masthead List of Officers, etc. on page 2 of each issue the telephone numbers and mailing addresses of the Section President and Secretary. (The information for the Publications Chairman has been traditionally available at the bottom of the masthead list; and Technical Group chairman and Liaison Contact data are published in every issue where space is available.)

Section members are urged to file the following important contacts:

President —

Dr. Bernard M. McNamee
Dept. of Civil Engineering
Drexel University
Philadelphia, PA 19104
(215) 895-2369

Secretary —

Albert M. Tantala
Tantala Associates
4903 Frankford Ave.
Philadelphia, PA 19124
(215) 289-4600

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 "JOURNAL OF PROFESSIONAL ISSUES IN ENGINEERING".

This "Call for Papers" is to remind Sections/Branches and members that ASCE has a place to publish non-technical papers.

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.

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

Annual subscriptions are \$10.00 for

ASCE members, \$35.00 for non-members.

Mail papers and subscriptions to ASCE headquarters, 345 E. 47th St., New York, NY 10017, c/o Carl E. Nelson, Administrator of Field Services.

OFFSHORE TECHNOLOGY CONFERENCE COURSES

Engineers attending the Offshore Technology Conference, May 2-5, Houston, TX, will have a chance to "bone up" on latest developments in two key topics, "Offshore Pile Foundations" and "Design of Coastal Structures", via short courses sponsored by the American Society of Civil Engineers.

ASCE, a co-sponsor of the Conference, is running both courses concurrently with each other at the Shamrock Hilton Hotel in Houston May 6-7, 1983.

Offshore Pile Foundations is a two-day intensive course designed for structural and foundation engineers who design jacket structures, single-point moorings, guyed towers and tension-leg platforms. Design of Coastal Structures is a two-day course that initially reviews basic background material on wave mechanics, wave/structure interaction and beach processes required to understand the functional and structural behavior of coastal structures.

The Pile Foundations course details fundamentals underlying codes of practice as well as recently developed design concepts.

Current worldwide interest in the subject will be covered in the discussions. Presentations will identify the appropriate fundamentals of mechanics but will avoid detailed mathematical treatments. Physical interpretations, actual test data, and numerical simulation will be used together with examples of actual design problems.

The Design of Coastal Structures course will include key design aspects of various classes of structures found in the coastal zone. Among these are rubble mound structures, revetments, bulkheads, piles and floating breakwaters. The course is intended for the practicing engineer who desires a thorough introduction to coastal structure design. A bachelors degree in engineering or physical science is enough to participate.

For more information, contact Dolores Nix, Continuing Education Services, ASCE, 345 E. 47th St., New York, NY 10017, or call (212) 705-7318.

ASCE DUES BILL AND TECHNICAL GROUP DETAILS

Section members will notice in the 1983 dues bill from National ASCE Headquarters, that the PHILADELPHIA (SECTION) DUES is itemized as \$12.00. This amount includes a \$1 assessment for membership in one Phila. Section Technical Group of your choice. **If you choose to be a member of more than one Group, please add \$1.00 for each Group.**

Also, because National's bill did not list the Technical Groups to which your \$1.00 payments were to be applied, you are requested to get in touch with the Chairmen of the Technical Groups of your preference, so that their membership lists can be classified.

The appropriate individuals to contact are the following:

Technical Group Liaison John E. Durrant

(Section Vice President)

Phila. Water Department
Materials Testing Laboratory
7th St. & Lehigh Ave.
Philadelphia, PA 19133
(215) 686-1776 Ext. 23-246

Associate Member Forum Margaret Yevics, President

215 S. 22nd St.
Phila., PA 19103
(215) 732-4218

Construction Group

Fredric L. Plotnick, Chairman
806 Hillton Lane
Elkins Park, PA 19117
(215) 487-1443 or (215) 843-7310

Geotechnical Group

Dr. Ziyad I. Husami, Chairman
Stone & Webster Engineering Corp.
3 Executive Campus, P.O. Box 5200
Cherry Hill, NJ 08034
(609) 482-3889

Hydraulics & Sanitary Group

Darlene McKinney, Chairman

Structural Group

Stephen H. Golden, Chairman
Pennoni Associates, Inc.
1911 Arch St.
Philadelphia, PA 19103
(215) 561-0460

Transportation & Urban Development Group

David A. Novick, Chairman
Parsons, Brinckerhoff, Quade &
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