

# the news



PHILADELPHIA SECTION  
**AMERICAN SOCIETY OF CIVIL ENGINEERS**  
1317 Spruce Street, Philadelphia, Pa. 19107

Non-Profit Org.  
U. S. POSTAGE  
**PAID**  
Philadelphia, Penna.  
Permit No. 1845

VOL. 54 - 2

OUR 69th YEAR

NOVEMBER, 1981

## NOVEMBER DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

**TUESDAY, NOVEMBER 10, 1981**

Engineers' Club, 1317 Spruce Street, Philadelphia

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

**SUBJECT:**

**TECHNIQUES IN CONSTRUCTION MANAGEMENT**

**SPEAKER:**

**JOHN BALL, President, R. M. Shoemaker Company**

The Contractor and the Construction Manager are essential participants in the construction of major projects. Sometimes their roles overlap. Many times developers and project owners are not clear as to what they will receive when they hire either a Contractor or a Construction Manager.

Mr. Ball will discuss the advantages of and the differences between the contracting and construction management methods. Mr. Ball will give examples of how his firm has applied these techniques in several local projects such as **The Atrium** at 20th and Market Streets, **Independence Place** at 6th and Locust Streets, and **Jefferson Hospital's** recent expansion.



Mr. Ball speaks from a wide range of experience. In his twenty-five years of management experience in the building construction industry, he has witnessed sweeping changes in contracting methods. Under his leadership, the R. M. Shoemaker Co. of Philadelphia has evolved from a predominantly bidding contractor group to its current status of construction management leadership. Mr. Ball has served the industry at large as Director and President of the Middle Atlantic Construction Management Association, a Director of the General Building Contractors Association of Philadelphia, and as Trustee and President of the Carpenters' Company of Philadelphia. Mr. Ball has co-authored a book, titled: "Businessman's Guide to Construction."

**SPECIAL FEATURE:**

**VILLANOVA UNIVERSITY NIGHT**

The ASCE Student Chapter, Faculty and Alumni of the Civil Engineering Department of Villanova University will be honored at this meeting. All students, faculty and alumni 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.

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

### NEXT MONTH'S MEETING

#### MARK YOUR CALENDAR

Luncheon Meeting  
PHILA. SECTION, ASCE

Date: **Tuesday, December 9, 1981**  
Engineers' Club — 12:00 noon

Subject: **Engineering During the Reagan Administration**

Speaker: To be announced

Temple University Day

### STUDENT CHAPTER COMMITTEE MEETING

Phila. Section, ASCE Student Chapter Committee Chairman **John E. Durrant** announces a Student Chapter Advisory Personnel Meeting:

**Tuesday, November 10, 1981**

**5:00 p.m.** — Engineers' Club

(Note: This is the date of the regular monthly Section Meeting at the Engineers' Club. See page 1.)

All Student Chapter Officers, Faculty Advisors, College Contact and Associate Contact Members are urged to attend this important meeting.

### TECHNICAL GROUP ACTIVITIES

#### Geotechnical

Date: **Tuesday, November 17, 1981**

7:00 p.m. — Engineers' Club

Subject: **The Regulatory Future of Hazardous Waste**

Speaker: **Stephen R. Wassersug**, Director, Air and Hazardous Materials Division, U. S. Environmental Protection Agency, Region III, Philadelphia, PA  
Program Host: **Dr. Ziyad I. Husami**, Chairman, Geotechnical Group

Refreshments are served.

Although the disposal of hazardous

(continued on page 2)

## IMPORTANT!! 1981 - 1982 Meeting Notices

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 1981 - 1982 Section Meeting Program Schedule and mark your calendar for all meetings and social functions. Listed below is a summary of remaining meeting dates.

**WEDNESDAY, December 9, 1981** — Section LUNCHEON Meeting, Engineers' Club

Subject: "Engineering During the Reagan Administration"

Speaker(s): To be announced

Arranged by Associate Member Forum

Temple University Day

**Tuesday, January 12, 1982** — Section Dinner Meeting, Engineers' Club

Subject: "Hazardous Waste Management"

Speaker: Gary R. Galida, PennDER, Harrisburg, PA

Arranged by Hydraulics and Sanitary Group

Drexel University Night

Joint Meeting with The Women's Auxiliary

**Tuesday, February 9, 1982** — Section Dinner Meeting, Engineers' Club

Subject: "Computers and the Civil Engineer"

Speaker: James Tobin, Sperry Univac Corp., Blue Bell, PA

Arranged by Structural Group

Swarthmore College, University of Delaware, and Princeton University Night

**Tuesday, March 9, 1982** — Section Dinner Meeting, Engineers' Club

Subject: "Interstate Success Story" (Baltimore Urban Development)

Speaker: William Hellman, Chief, Interstate Division of Baltimore City

Arranged by Transportation and Urban Development Group

University of Pennsylvania Night

**Tuesday, April 13, 1982** — Joint Dinner Meeting with Philadelphia Post, Society of American Military Engineers (SAME), Engineers' Club

Subject: "Construction of Trident Submarine Base, Puget Sound"

Speaker: Capt. William G. Connor, USN, Officer in Charge

Widener College and Spring Garden College Night

**Saturday, May 1, 1982** — Annual Spring Social

Engineers' Club, Philadelphia, PA

Program Host: Darlene E. McKinney,  
Secretary-Treasurer, H & S Group

For reservations and luncheon information, please call Darlene McKinney, at Greeley & Hansen, (215) 563-3460 on or before Monday, November 16, 1981.

## T & U D Group Seeks Chairman

The Phila. Section Transportation and Urban Development Group needs a Chairman for the 1981-1982 season. This Technical Group is an important function of the Section's professional activities.

If you are interested in accepting appointment as Chairman, please give Section President Fred Roll a call as soon as possible at the Department of Civil and Urban Engineering, University of Pennsylvania, (215) 243-8347.

## PHILADELPHIA SECTION AMERICAN SOCIETY OF CIVIL ENGINEERS

### OFFICERS 1981 - 1982

#### PRESIDENT

Frederic Roll

#### VICE PRESIDENTS

Bernard M. McNamee William M. Malarkey

#### SECRETARY

Albert M. Tantala

#### ASSISTANT SECRETARY

Judy Y. Longfield

#### TREASURER

Charles J. Denny

#### TREASURER EMERITUS

Theodore Davis

#### MEMBERSHIP SECRETARY

David M. Barr, III

#### DIRECTORS

Ish K. Aneja Francis J. Depman, Jr.

Harold G. Byers Thomas J. Lauer

John E. Durrant Charlene O'Connor

Robert B. Ludgate

(Reading Branch)

#### PAST PRESIDENTS

Celestino R. Pennoni Kenneth J. Zitomer

Joseph R. Szyrnick

#### PUBLICATIONS COMMITTEE

Sidney Robin

Chairman and Editor of THE NEWS

Joseph R. Szyrnick

Assistant Chairman and Associate Editor

Staff Writer

John E. Spitzko, Jr.

Publications Coordinator

Albert M. Tantala

#### SEND COPY TO:

Sidney Robin  
84 Nancy Drive  
Richboro, Pennsylvania 18954  
Phone: (215) 822-7464

**COPY DEADLINE FOR  
DECEMBER, 1981 ISSUE  
NOVEMBER 10, 1981**

## TECHNICAL GROUP ACTIVITIES

(continued from page 1)

waste has been a problem for over forty years, it is only during the last ten years that aggressive environmental laws and regulations have been established to control these wastes. The national media coverage of Love Canal and the Valley of the Drums in the late 1970's heightened the awareness of the public and the U. S. Congress.

An indepth discussion of RCRA subtitle "C" to regulate the generation, transportation, treatment, storage, and disposal of hazardous wastes will be made along with the complementary State efforts.

Implementation plans and timetables

for site cleanups using Superfund monies will be discussed.

Insights into future regulatory reforms will be presented along with probable effects of current and future Administration budget changes. The roles of State and local governments and the interaction between the public and private sectors will be discussed.

—0—

## Hydraulics and Sanitary

### November Meeting

Date: Wednesday, November 18, 1981

Luncheon: 12:30 p.m., near the facility

Subject: Field Trip to Delaware Solid Waste Authority Resource Recovery Facility

Speaker: N. C. Vasuki, Director of the Facility

## OCTOBER MEETING

### Tour of Commuter Connection

A gratifying turnout of Phila. Section, ASCE members, including a large contingent of civil engineering students from area colleges, enjoyed a briefing, luncheon and field study tour of the **Center City Commuter Rail Connection** as the 1981-1982 season began with the field trip on **October 13, 1981**.

The tour and briefing was conducted under the expert direction and guidance of the **Philadelphia Railway Consultants**, a consortium of Consulting Engineering firms. **General W. T. Meredith** is Project Manager for the Consortium and President for Parsons Brinkerhoff Construction Services. General Meredith and his competent staff of tour guides provided preliminary descriptions of design and construction details and continuous commentary on the tour, which was divided into several groups because of the large number of attendees.

Inspected were the covered tunnels; complex modifications to existing subway and rail stations, particularly the massive underpinning program inside the Reading Terminal; the new Gallery II Complex, including structural foundations and framing provisions for future major department stores, office towers and stores; a new underground station; tunnel sections above an existing subway; underground pedestrian passageways; the underpinning of several major structures contiguous to the route; and the permanent relocation of a major traffic artery.

The enormous scale and complexity of the project is staggering to contemplate, and can only be appreciated when inspected and enlightened in such a manner as the field trip study engenders. The fulfilling experience was appreciated by all who attended. General Meredith and his staff are to be commended for their generosity, competence and splendid cooperation.

High compliments are also to be extended to Phila. Section Meeting Program Advisor **Ira N. Pierce**, who coordinated the formidable arrangements for this excellent event.

## WOMEN'S AUXILIARY SCHOLARSHIP AWARDS

The Philadelphia Section, ASCE Women's Auxiliary announces the winners of the **1981 Annette Estrada Memorial Scholarship** prizes. The recipients are: **Barbara M. McCullough**, Villanova University; **Linda Joy Ranck**, University of

## ASCE DUES BILL AND TECHNICAL GROUP DETAILS

Section members will notice in the 1981 dues bill received recently from National ASCE Headquarters, that the **PHILADELPHIA (SECTION) DUES** is itemized as \$11.00. 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

#### William M. Malarkey

(Section Vice President)

Urban Engineers, Inc.  
19th Street & Delancey Place  
Phila., PA 19103  
(215) 546-3222

### Construction/Structural Group

#### James Robinson, Chairman

United Engineers & Constructors,  
Inc.  
440 E. Swedesford Road  
P. O. Box 780  
Valley Forge, PA 19482  
(215) 964-1300, Ext. 281

### Geotechnical Group

#### Dr. Ziyad I. Husami, Chairman

Stone & Webster Engineering Corp.  
P. O. Box 5200  
Cherry Hill, NJ 08034  
(609) 482-3889

### Hydraulics & Sanitary Group

#### Dana Pizarro, Chairman

O'Brien & Gere Engineers  
1617 J. F. K. Blvd., Suite 1760  
Phila., PA 19103  
(215) 564-4282

### Transportation & Urban Development Group

Chairman needed. See request  
article elsewhere in this issue.

Pennsylvania; and **Bryan McGlade**, Drexel University.

The annual awards program was established by the Auxiliary many years ago in honor of the late **Annette (Mrs. Alfred A.) Estrada**, first President of the Women's Auxiliary (1957-1959). The financial gifts are awarded to outstanding civil engineering students of Metropolitan Philadelphia area colleges.

## MAINTENANCE IS NEGLECTED AND CITIES DECAY

**Editor's Note:** The following article was abstracted from an Associated Press Article which appeared recently in the Phila. Inquirer. Future issues of THE NEWS will continue the story as space is available.

The precarious state of bridges, streets and water and sewer systems in the nation's cities has worsened in the past five years, posing hardships, danger and new burdens for taxpayers.

A John Wanamaker store in Wilmington, Del., is losing customers because nearby Augustine Bridge was ruled unsafe and closed in 1978.

Homeowners in Hot Springs, S.D., live in fear because defective fire hydrants often supply just a trickle of water.

Fairmount Park in Riverside, Calif., where a once-beautiful lake has filled with silt from years of neglect, is now a playground for vandals and muggers.

In the nation's hardest-pressed cities — Cleveland, Buffalo, N.Y., Newark, N. J., Philadelphia and New York, for example — unrepaired potholes crack car axles, water systems leak as much as a third of the water supply and falling chunks of aging bridges threaten lives.

In Cleveland, officials say it would take an estimated \$700 million to bring that city's roads, sewers, water system and bridges up to reasonable standards. There is no way the city can raise that kind of money.

"The order of magnitude (of the problem) must simply be horrendous. If you really did a study on a nationwide basis, it would be larger than the defense budget," New York City Deputy Mayor Phillip Trimble told the congressional Joint Economic Committee, which held hearings on the problem recently.

### Pay later — and more

It's just as the auto repairman in the commercial warns: "You can pay me now . . . or pay me later." Many cities have chosen to pay later to repair water mains and other life-support structures — although that will mean crushing repair bills for future taxpayers.

Crumbling city structures are also high on the list of reasons why older cities have lost people and jobs in recent years. But officials in the South and the Southwest and even in rural areas say that they, too, are fighting a losing struggle. Most governments simply do not have the dollars needed to fix, rebuild or even maintain a bridge or a sewer system.

(to be continued)

## WOMEN'S AUXILIARY

### November Combined Meeting

The November Luncheon-Meeting of the Phila. Section, ASCE Women's Auxiliary will be held at the Engineers' Club on **Tuesday, November 17, 1981 - 12:00 noon**. It will be a combined meeting with the Auxiliaries of ASME and PSPE, with the latter acting as hosts. Featured speaker will be the **Hon. Lisa A. Richtette**, Judge of the Court of Common Pleas, Phila. The subject of her talk: **"Illusion or Reality: Women Achievers of the Eighties"**.

Judge Richtette has been the honored guest of the ASCE Women's Auxiliary in past years, giving graciously of her time to address the group on provocative and enlightening legal and sociological issues. All Auxiliary members are urged to attend this important meeting.

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.

## SECTION MEMBERSHIP ASSIGNMENT PREFERENCES

A number of the area ASCE members have raised questions concerning their assignment to an ASCE Section. Section assignments are made on the basis of mailing addresses. If an ASCE member, for example, lives in New Jersey but works in Philadelphia he/she will be assigned by National to one of two Sections. If the ASCE member uses his/her home address for receiving mail, the Section assignment will be New Jersey. If the mailing address used, however, is the work address, the Section assignment will be Philadelphia.

For ASCE members who do not live or work in a region covered by the ASCE Section he/she would prefer to belong to, ASCE National will still make the Section Membership assignment based on mailing address. If membership in another Section is still desired, the member must personally contact the Section he/she is desirous of joining and pay Local Section dues. This procedure is discussed in the mailing package sent with the annual dues statement.

Any ASCE member may belong to as many Sections as he/she would like, but he/she must contact the Sections directly, with the sole exception being the Section assigned by National. Persons interested in membership in the Philadelphia Section should contact **Al Tantala**, Section Secretary, at 289-4600.

## JOB OPPORTUNITIES

A new service, **A & E JOB LINE**, has been formed to supplement the recruiting efforts of consulting Architectural and Engineering firms, according to Daniel N. Kanouse, President of the firm. Called **A & E JOB LINE**, the service consists of a monthly bulletin of senior level professional positions available with A & E firms across the nation.

The bulletin is free to those who are interested in looking at new job opportunities. Employers who wish to list their open positions in the **A & E JOB LINE** pay a one-time annual fee.

The **A & E JOB LINE** is mailed once a month to over 30,000 individuals in Architectural and Engineering disciplines across the country. Kanouse claims that the **A & E JOB LINE** "reaches the 'hidden candidate' job market. Many people who could be potentially interested in a new job opportunity just don't read classified ads or list themselves with employment services." "Most senior level professionals are relatively well paid and satisfied where they are," Kanouse added "but when they see new opportunities presented to them in the form of a confidential bulletin mailed to their home, they may be ready to look at their current situation with a more critical eye."

For the employer, there can be a significant savings in recruitment costs to the tune of several thousand dollars annually. For further information, contact Daniel N. Kanouse at **A & E JOB LINE**, P. O. Box 19, Lyndell, PA 19354 or phone (215) 269-5791.

## ENERGY MEMO INFO ON SOLAR AVAILABLE

Solar energy has caught the imagination of the American public and the demand for information on solar is constantly increasing. Providing the essential information on solar energy needed by architects, builders, lenders and the public at large is the National Solar Heating and Cooling Information Center. As mandated by federal law, the National Solar Heating and Cooling Information Center is a complete, onestep clearing-house for information on solar energy that encourages consumers businesses and industries to consider solar as a viable alternate energy source.

Information on virtually any aspect of solar heating and cooling can be obtained by writing to: National Solar Heating and Cooling Information Center P. O. Box 1607, Rockville, MD 20850.

Toll free telephone calls may be made to the center by calling: (800) 523-2929.

## DAM SAFETY BOOK AVAILABLE

The "Evaluation of Dam Safety" is the title of a newly issued reference volume published by the American Society of Civil Engineers. This makes available extensive information produced at the December 1976 Asilomar Conference on dam safety sponsored by the Engineering Foundation. The list price of the 523-page book is \$16.

The volume contains an analysis of current public law and considerations for new legislation. It contains detailed descriptions of safety inspection procedures and of the role of engineering organizations in the national dam safety program.

Chapters of the book deal, additionally, with failures and near failures, evaluation of static stability, evaluation of seismic stability, and evaluation of hydrologic and hydraulic conditions.

### ASCE has also published the following books on dam safety and construction:

Current Trends in Design & Construction of Embankment Dams, 1979, \$11.75

Rock Engineering for Foundations and Slopes, 1976, 2 Volumes, \$27.50

Evaluation of Dam Safety, 1976, \$16.

Lessons from Dam Incidents, USA, 1975, \$18.00

Responsibility and Liability of Public and Private Interest on Dams, 1975, \$12.

Safety of Small Dams, 1974, \$23.00

Foundations for Dams, 1974, \$27.50

Economical Construction of Concrete Dams, 1972, \$19.75

These books are available from the American Society of Civil Engineers, 345 East 47th Street, New York, NY 10017. Payment must accompany the order; ASCE members may deduct 50% from the foregoing prices.

## ASCE Landmarks in 1982 Calendars

A large wall hanging 1982 calendar has been printed by ASCE and is now being made available.

The calendar features outstanding illustrations and explanatory captions for thirteen (one for each month plus cover) **National Historic Civil Engineering Landmarks**. Among the civil engineering landmarks pictured is the **Frankford Avenue Bridge, Philadelphia**, dedicated as an ASCE Landmark in a memorable ceremony on September 15, 1970.

Members desiring a single calendar should send \$5.95 to ASCE, 345 East 47th Street, New York, NY 10017 for single copies. For ten or more calendars, quantity prices are available and for organizations wishing to imprint 100 or more with an advertising message, special prices are available on request.