

the news



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PHILADELPHIA SECTION
AMERICAN SOCIETY OF CIVIL ENGINEERS
1317 Spruce Street, Philadelphia, PA 19107

Vol. 61-5

Celebrating Our  75th Anniversary

FEBRUARY, 1989

FEBRUARY DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

TUESDAY, FEBRUARY 14, 1989

ENGINEERS' CLUB, 1317 Spruce Street, Philadelphia

Social Hour - 5:30 P.M. Dinner - 6:30 P.M. Meeting - 7:30 P.M.



SUBJECT: PHILADELPHIA TRASH TO STEAM - CAN IT HAPPEN?

SPEAKER: HON. W. THACHER LONGSTRETH, Philadelphia City Councilman-At-Large

Although the trash-to-steam proposal as originally submitted to City Council is now dead, Philadelphia is far from solving its trash problem. The City recently entered into a five-year contract with a private waste-hauling company to truck Philadelphia's waste to landfills in Pennsylvania and Ohio. This "solution" only temporarily solves the City's trash crises. So long as we rely on other counties and townships to take our trash, Philadelphia will never have a sound, long-term waste disposal solution.

Long one of Philadelphia's best known and respected City officials and business leaders, Thacher Longstreth is a 1941 graduate (with honors) of Princeton University, where he played on the championship football team (Honorable Mention for All-American). He has served three terms as Philadelphia Councilman-At-Large (1969-71, 1984-87, 1988-Present) and was Republican candidate for mayor in 1955 and 1971.

(Continued on Page 2)

MARCH DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

TUESDAY, MARCH 14, 1989

ENGINEERS' CLUB, 1317 Spruce Street, Philadelphia

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

SUBJECT: SEPTA: ACTION FOR THE 90'S

SPEAKER: LOUIS J. GAMBACCINI, Chief Operations Officer/General Manager, Southeastern Pennsylvania Transportation Authority (SEPTA)

Mr. Gambaccini will briefly describe what has taken place at SEPTA since his recent appointment as General Manager. His action program for SEPTA in the upcoming decade will be reviewed. **DON'T MISS THIS MEETING!**

SPECIAL FEATURES: LIFE MEMBERSHIP AWARDS & WIDENER UNIVERSITY NIGHT.

NOTICE!! DINNER AT PHILA. SECTION MEETINGS WILL BE SERVED ONLY TO THOSE WHO CALL IN THEIR RESERVATIONS. FOR ALL MEETINGS - AS THEY ARE ANNOUNCED IN THE NEWS - CALL PRESIDENT SUE LIOR'S SECRETARY, BETHANN, AT (215) 925-3196 IMMEDIATELY.

Dinner Meal Charge: ASCE Member \$16.00; Non-Member - \$17.00; Students - \$8.00

STUDENTS: If you prefer, you are invited and welcome to attend the Meeting after Dinner, at no charge.

TECHNICAL GROUP ACTIVITIES

Geotechnical and
Water/Environmental Groups

(Combined Program for 1988-89)

February Meeting

Date: **Tuesday, February 21, 1989 - 7:00 PM**

Location: Room 4014, MacAlister Hall, Student Center, Drexel University, Chestnut Street between 32nd and 33rd

SUBJECT: Sludge Stabilization With In-Situ Consolidation Dewatering

SPEAKER: Dr. Daekyoo Kwang, P.E., Environmental Resources Management, Inc., Exton, PA

Popular methods to stabilize large sludge impoundments include solidification with physically conditioning and chemically reactive additives. This presentation will describe closure of sludge lagoons by a unique and innovative technique that not only improves stability and reduces waste volume, but accomplishes it in-situ without substantial disturbance of the deposit.

The process known as Geotechnical Sludge Stabilization (GSS), and is based on the concept of dewatering by consolidation. Free liquid present in a slurry-like sludge is extracted by an integrated process of drainage, geofabric reinforcement and vacuum pumping. The process combines various loading and drainage schemes to attain a clay-like consistency sufficient to support a final cover. Upon such stabilization and installation of the final cover, the site can be closed as a landfill with the potentially mobile liquid removed and the sludge residue safely contained.

Dinner will be available at the Drexel Faculty Club, 6th Floor, MacAlister Hall. For further information, please call Chairman **Dave Ritter** at (215) 495-0303; or **Dr. Joseph P. Martin** at (215) 895-2363.

The combined Geotechnical and Water/Environmental Group program for 1989 includes the following remaining presentations:

- March: In-Situ Recovery of Volatile Organic Contaminants
- April: Design and Contract Operation of the Oaks, Pa. WWTP.

Details will appear in later editions of THE NEWS.

(Continued on Page 2)

PHILA. SECTION, ASCE 75th ANNIVERSARY UPDATE

EDITOR'S NOTE: See the December, 1988 issue of THE NEWS for a synopsis of the planned program and how you can help by joining the 75th Anniversary Committee.

ALL DAY SPRING PICNIC

The Beat is on. The Barbecue will be grilling. Competition will be high, and magic will be in the air! There will be fun for you, your spouse, your kids and friends — fun for "all in the family!"

DATE: SATURDAY, MAY 20, 1989

**PLACE: BELMONT MANSION,
West Fairmount Park**

Among many fun-filled events, the volleyball games will highlight the competition among companies and schools. As of now the following teams have committed to participate:

Turner Construction Company
Pennoni Associates, Inc.
Lippincott Engineering Associates
Roy F. Weston, Inc.
WALKER Parking Consultants/Engineers, Inc.
United Engineers
Urban Engineers, Inc.
Christakis & Kachele, Inc.
Hearly & Long Concrete Contractor
Department of Streets, City of Philadelphia
Water Department, City of Philadelphia
Drexel University

Please fill out an information sheet as outlined and mail to 75th Anniversary Committee Chairman **Timothy H. Haahs** as directed.

**THE SUCCESS OF THIS CELEBRATION
DEPENDS ON YOU!**

AMERICAN SOCIETY OF CIVIL ENGINEERS SPRING PICNIC Saturday, May 20, 1989

Yes, we will have a volleyball team.*

Company _____

Address _____

Contact Person _____

Telephone # _____

*There will be a nominal entrance fee.

Yes, I would like to help and be a part of the 75th Celebrating Committee. I can help with:

- Fundraising
- Refereeing volleyball games
- Publication
- I have ideas for spouse & kids events.
- I know a great clown.
- Other _____

Name _____

Company _____

Telephone # _____

Mail or Call:

Timothy H. Haahs, Chairman
c/o WALKER Parking
Consultants/Engineers, Inc.
Two Penn Center Plaza - Suite 1015
Philadelphia, PA 19102
(215) 751-9555 (work)
(215) 836-5142 (home)

POSITIONS AVAILABLE

CIVIL AND/OR SANITARY ENGINEERS

We have positions available for experienced and entry level engineers in our established Bucks County consulting firm specializing in civil and sanitary engineering for municipal, governmental, and industrial clients. Typical projects include water, sewer, stormwater, highway, and site engineering.

Contact **Joe Nolan** at **CKS Engineers, Inc.**, 88 South Main Street, Doylestown, PA 18901 (215) 340-0600.

PHILADELPHIA SECTION ASCE

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SEND COPY TO:

Sidney Robin

64 Nancy Drive

Richboro, PA 18954

Technical Group Activities

(Continued from Page 1)

Structural Group

February Meeting

Date: **Tuesday, February 21, 1989**

Engineers' Club

Cocktails - 5:30 PM; Dinner - 6:00 PM;

Meeting - 7:30 PM

SUBJECT: The Center for Advanced Technology for Large Structural Systems (ATLSS) Research Center at Lehigh University

SPEAKER: Dr. Jack Bower, Deputy Director of

the ATLSS Program

Dr. Bower will present an overview of the ATLSS Program, highlighting their new \$4.5 million reaction floor and wall which comprises the world's largest multi-directional test facility. The new facility will enable researchers to study three dimensional behavior of full scale structural systems.

For reservations and information, please contact **David A. VanOcker, P.E.**, Chairman, Structural Technical Group, c/o Christakis & Kachele, Inc., (215) 352-7676.

(Continued on Page 5)

FEBRUARY DINNER MEETING

(Continued from Page 1)

Mr. Longstreth joined the U.S. Navy in 1942 as Ensign and separated four years later as Lt. Commander, USNR, having served with the Pacific Fleet aboard several carriers, participating in eight major engagements. He received the Bronze Star for Bravery in Action (1944), and a second Bronze Star and Commendation Ribbon from Fleet Admiral Halsey in 1945.

Councilman Longstreth's business background is extensive. He has held official posts and Board of Directors membership in numerous major companies and corporation, charitable organizations and civic associations since 1946 to the present. From 1964 to 1983 he was President and Chief Executive Officer of the Greater Philadelphia Chamber of Commerce. Mr. Longstreth is the recipient of Honorary Degrees from Drexel University, Spring Garden College, Philadelphia College of Textiles, and Combs School of Music.

SPECIAL FEATURE: TEMPLE UNIVERSITY NIGHT

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

**COPY DEADLINE
FOR
MARCH 1989
ISSUE
FEBRUARY 14, 1989**

PHILADELPHIA SECTION ASCE ANNUAL CIVIL ENGINEERING AWARDS

1989

The Philadelphia Section takes pleasure in announcing the Annual Civil Engineering Awards. These awards are to recognize local members, for their contributions to the Civil Engineering field. If you wish to nominate someone, please read the rules and criteria and then fill out the nomination form.

ALL AWARDS WILL BE PRESENTED AT THE ANNUAL DINNER DANCE

(Date and Location to be announced soon)

R U L E S

Nomination must be received prior to 3 p.m., **February 24, 1989**.
(If time extension or information are necessary, contact **John Durrant (215) 686-1690** or **Bob Wright (215) 686-5538**.)

All awards are presented only in years, where in the judgment of the Selection Committee, or the Board, there is at least one suitable candidate.

Individuals may be nominated for awards by a member in any grade of membership.

The Selection Committee will be required to nominate an alternate for Board consideration for each award.

Individuals may be awarded only one award in a single year.

Each Selection Committee will also recommend to the Board of Directors whether the recipient should be nominated for applicable national or regional awards by the Section.

Individuals may be nominated for more than one award.

Award recipients must be approved by the Board of Directors.

A W A R D S

Philadelphia Civil Engineer of the Year

The section's highest award is presented to an individual who is judged to have contributed substantially to the civil engineering profession.

CRITERIA:

- Membership Grade — Member, Fellow, Life or Honorary
- Member in good standing of the Philadelphia Section

RECIPIENT ALSO CONSIDERED FOR:

1. Delaware Valley Engineer of the Year
2. Edmund Friedman Professional Recognition Award

Philadelphia Young Civil Engineer of the Year

This award is presented to a young civil engineer who is judged to have contributed to the civil engineering profession.

CRITERIA:

- Membership Grade — Associate or Student
- Member in good standing of the Philadelphia Section or member of a student chapter assigned to the Philadelphia Section
- Must be 31 years of age or younger on Feb. 1 of the award year

RECIPIENT ALSO CONSIDERED FOR:

- Edmund Friedman Professional Recognition Award

Philadelphia Government Engineer of the Year

This award is presented to an individual who is employed by the Federal Government, a State Government, a Municipal Government or a public authority that has contributed substantially to the civil engineering profession.

CRITERIA:

- Membership Grade — Member, Life, Honorary or eligible for membership.
- Assigned to the Philadelphia Section, or employed or residing within the Philadelphia Section boundaries.

RECIPIENT ALSO CONSIDERED FOR:

1. Zone I Government Engineer of the Year
2. Civil Government Award

Philadelphia Young Government Engineer of the Year

This award is presented to a younger member who is employed by the Federal, a State or a Municipal Government or a public authority that has contributed to the civil engineering profession.

CRITERIA:

- Membership Grade — Associate member or eligible for membership
- Member of the Philadelphia Section or employed within or residing within the Philadelphia Section boundaries.

RECIPIENT ALSO CONSIDERED FOR:

- Zone I Young Government Engineer of the Year)

Government Service Award

Presented to an elected or appointed governmental official who has contributed substantially to the status of the civil engineering profession by their public service.

CRITERIA:

- Holds office in a jurisdiction which represents a geographical area including an area which corresponds to the boundaries of the Philadelphia Section. This would include the President, a U.S. Senator from Pennsylvania, Congressman, Mayor, Commissioner, etc.

RECIPIENT ALSO CONSIDERED FOR:

- Civil Government Award

Individual Technical Awards

The following awards have the same criteria. Each award is presented to an individual who is judged to have contributed substantially to civil engineering and in the area of the particular award.

- Civil Engineering Manager of the Year
- Geotechnical Engineer of the Year
- Structural Engineer of the Year
- Construction Engineer of the Year
- Transportation Engineer of the Year
- Water Resources Engineer of the Year

(over)

CRITERIA:

- Membership in any grade
- Member of the Philadelphia Section

RECIPIENT ALSO CONSIDERED FOR:

- Technical Groups will be responsible for nominating winners for appropriate national award.

Educator of the Year

This award is presented to an outstanding educator in the field of civil engineering, who has contributed substantially to the field.

CRITERIA:

- Membership Guide — Higher than student
- Member of the Philadelphia Section
- Must be a staff member of a college or university with an ASCE student club chapter

Philadelphia History and Heritage Award

Presented to an individual whose efforts have made contributions to better the knowledge of, or appreciation for, the history and heritage of civil engineering.

CRITERIA:

- Must reside within the geographical boundaries of the Philadelphia Section or be a member of the Philadelphia Section.

RECIPIENT ALSO CONSIDERED FOR:

- Civil Engineering History and Heritage Award

cut along line

— NOMINATION FORM —

IF YOU DESIRE TO MAKE NOMINATIONS FOR MORE THAN ONE PERSON, PLEASE PHOTOCOPY THIS FORM.

Name of Candidate _____
 Address _____ Phone: _____
 Job Title _____
 Work Location _____

Membership:

ASCE Yes No
 Phila. Section Yes No
 Age (if applicable)

Registration Information

Award(s) Nominated To—

Check One (or more if applicable)

- Philadelphia Civil Engineer of the Year
- Philadelphia Young Civil Engineer of the Year
- Philadelphia Government Engineer of the Year
- Philadelphia Young Government Engineer of the Year
- Government Service Award
- Educator of the Year
- Philadelphia History and Heritage Award

Individual Technical Awards

- Civil Engineering Manager of the Year
- Geotechnical Engineer of the Year
- Structural Engineer of the Year
- Construction Engineer of the Year
- Transportation Engineer of the Year
- Water Resources Engineer of the Year

Academic Degrees —

Other Professional Societies —

Civic or Charitable Activities —

Continuing Education —

Other Awards or Honors: _____

Nominated by: Name _____
 Member I.D. (see Newsletter label) _____
 Address _____
 Telephone Number _____

Achievements — (In 200 words or less, that supports the candidate's nomination, please use separate sheet.)

Return Form to: John E. Durrant, Philadelphia Water Dept., 7th & Lehigh Ave., Phila., PA 19133 (215) 686-1690 or: Robert Wright, Phila. Dept. of Streets, 920 Municipal Services Building, Phila., PA 19102 (215) 686-5538.

JANUARY MEETING

January 11, 1989

Holiday Inn, King of Prussia

"A Clean Slate for Philadelphia"

By Dave Perri, Associate Editor

A capacity crowd of more than 200 members, guests, Drexel University students, alumni and faculty attended an outstanding January Joint Meeting of the Philadelphia Section, ASCE, and the Delaware Valley Section, American Society of Highway Engineers (ASHE), at the beautiful Holiday Inn, King of Prussia, PA.

The subject was: "Building a Solid Waste Management Plan: A New Agenda for the City of Philadelphia Streets Department Toward a Cleaner and Safer City." Principal Guest Speaker was **Alexander L. (Pete) Hoskins**, recently appointed Commissioner of Streets, City of Philadelphia.

ASHE Officials Introduced

Frank Panzullo, President of the Delaware Valley Section, American Society of Highway Engineers — co-host with Philadelphia Section President **Susan K. Lior** — introduced his fellow officers, presented special awards to distinguished members of ASHE, and conducted a brief business meeting of interest to the ASHE membership.

Drexel University Night

The meeting honored the ASCE Student Chapter, alumni, faculty and Civil and Architectural Engineering Department of Drexel University, whose members turned out in impressive numbers to participate.

Dr. Martin outlines Expansion Program

Drexel Student Chapter Faculty Advisor, **Dr. Joseph P. Martin**, Associate Professor of Civil and Architectural Engineering, described the great expansion program underway at Drexel — most conspicuously the establishment of the Architectural Engineering program combined with the Civil Engineering curricula, in a five-year cooperative course. Also, several students have received National Awards in Environmental Engineering; and three out of sixty National Science Foundation Awards throughout the nation for outstanding graduate research in all disciplines have been won by Drexel students.

Dr. Martin reviewed the progress of the new Engineering Building now nearing completion on campus, and the anticipated expansion of laboratory and classroom research, faculty and curricula modernization.

President White on Chapter Accomplishments

Drexel ASCE Student Chapter President **Gary White** thanked the Section for its courtesies, and presented his fellow officers in attendance: Vice President, **Dwayne Yates**; Secretary, **Angie Hergenroeder**; Membership Secretary, **Michael Pieroni**; Treasurer, **Carmen Torsiello**; Student Department Head, **Maryann Susavidge**. A large contingent of alumni was acknowledged; and distinguished faculty members attending—all Philadelphia Section members, in addition to Dr. Martin, were: **Dr. Richard E. Woodring**, Dean of the College of Engineering; **Dr. J. Richard Weggel**, Phila. Section Vice President; and **Dr. Robert M. Koerner**, Section Past President.

President White described a principal function of the Drexel ASCE Student Chapter: to encourage and spawn social interaction between its members and the community inside and outside

of the school. This is in addition to its normal internal objectives within the college and its technical pursuits in the profession as a whole. He presented an update on the Chapter's plans, including a Job Fair, in which area companies, contractors, consulting firms, etc. will be invited to wine and cheese receptions to discuss jobs and placements of Civil Engineering students. He also expressed enthusiasm about the coming Spring Concrete Canoe Races; a proposed ski trip to the Poconos; the Chapter's successes in intermural sports in many categories (it lost only in the playoffs in these competitions). The busy schedule is delightfully crowned by bi-weekly "Happy Hours!"

Waste Problems in Perspective

Philadelphia Section Director **Michael J. Gabor** introduced our distinguished speaker: Philadelphia Streets Commissioner **Alexander L. (Pete) Hoskins**, who provided insight into the City's long-term Solid Waste Management Plan. Philadelphia generates approximately 900,000 tons of solid waste per year — a volume large enough to twice fill Veterans Stadium.

Placing the current situation into proper perspective, Commissioner Hoskins presented a brief history of waste disposal in the City. The City has come a long way from the 1920's when the first of four batch-type incinerators came on line. Ash from these primitive plants was dispersed in over 150 dumpsites located throughout the city. Pollution and shortened life expectancies resulted.

Current Status of Solid Waste Management

Last year the City signed a six year contract with Waste Management Inc. to dispose of all municipal solid waste in three suburban landfills. The contract "provides us with a window of opportunity to plan, and enough time to exercise options." The Commissioner was also pleased to report that a new era has begun with the City labor force. The City negotiated the possibility of equipment modernization including the imminent deployment of larger 32 cubic yard high density compactors.

State Solid Waste Legislation

In July 1988, Pennsylvania Governor Casey signed into law the Municipal Waste Planning, Recycling and Waste Reduction Act. Commissioner Hoskins explained that the Act mandates the City of submit a comprehensive solid waste management plan to the Department of Environmental Resources by March 1991. The legislation requires that effective public participation take place including the formation of an advisory committee to oversee the plan's development.

In response to the new legislation, Mayor Goode has formed the Solid Waste Advisory Committee. Its membership includes citizens organizations, environmental groups, recycling interests, business, labor, the scientific and academic communities and Councilmen David Cohen and George Burrell.

25 Year Plan to be Developed

"The planning process," explained Commissioner Hoskins, "will be structured into three distinct stages: education, deliberation, and decision making." He emphasized that the entire commu-

Technical Group Activities

(Continued from Page 2)

Transportation & Urban Development Group

February Meeting

Date: Thursday, February 23, 1989

Engineers' Club

Cocktails — 5:30 PM; Dinner 6:00 PM;

Meeting 7:00 PM

SUBJECT: To be announced.

SPEAKER: To be announced.

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Transportation & Urban Development Group Upcoming Meetings 1988-89

Tuesday, March 14, 1989 (Main Section Mtg.)

TOPIC: SEPTA: Action for the 90's

SPEAKER: **Louis J. Gambacinni**, Chief Operations Officer/General Manager, SEPTA

Thursday, April 27, 1989

TOPIC: Amtrak CETC

SPEAKER: **Tom Rhodes**, Sr. Engineer, CETC, Amtrak

Thursday, May 25, 1989

TOPIC: I-95 On/Off Ramps

SPEAKER: **James W. McPhillips**, Project Director, Urban Engineers, Inc.

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The tentative schedule of the program listed above, attempts to cover the variation of disciplines within the T&UD Group's purview. We remain open to suggestions which members may have to help make the program better.

Sincerely, **William T. Thomsen, P.E.**, Chairman
Transportation & Urban Development Group

NEWS OF MEMBERS

Alan Cohen Associates Relocated

Alan Cohen Associates, Inc., Consulting Engineers in Geotechnical, Civil and Construction Engineering, announces its relocation, as of February 1, 1989 to Suite 350, 1100 E. Hector Street, Conshohocken, PA 19428, Phone: (215) 828-1860; FAX (215) 828-1862. The firm specializes in Engineering Consultation, Owner Representation, Expert Services, and Inspection.

nity will be involved to bring about "constructive consensus building."

Since the process is completely non-biased, and nothing, including the possibility of burning with the City limits is being ruled out, the program is being called "Clean Slate."

Following the three month education phase, the formal planning process will begin. The goal is for City Council to adopt, by January 1991, a 25 year solid waste disposal strategy developed by the Advisory Committee.

An Enlightening Discussion Period

Probing and incisive comments and questions from members of the audience were addressed forthrightly by Commissioner Hoskins, and he was assisted occasionally by experts on his staff who were in attendance.

After closing comments by ASHE President Panzullo, Certificates of Appreciation were presented to our honored speaker by Mr. Panzullo and Phila. Section President, **Susan K. Lior**.

ASCE DUES BILL AND TECHNICAL GROUP DETAILS

Section members will notice in the 1988 dues bill from National ASCE Headquarters, that the PHILADELPHIA (SECTION) DUES is itemized as \$13.00. This amount includes 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 Chairman of the Technical Groups of your preference*, so that their membership lists can be classified.

The appropriate individuals to contact are the following:

Liaison

Francis J. Depman (Frank)
Kaufman Construction Co.
4000 Pulaski Ave.
Philadelphia, PA 19140
(215) 223-4700

Younger Member Forum

Chairman position available. If interested, please contact Frank Depman (See "Liaison" above).

Construction

Fredric L. Plotnick, Chairman
Engineering & Property Mgt. Consultants
806 Hilton Lane
Elkins Park, PA 19117
(215) 843-7313

Engineering Management

Edward F. Koehler, Chairman
Amtrak - Engineering
(215) 557-1603

Geotechnical

Dr. Joseph P. Martin, Chairman
Drexel University
Civil Engineering Dept.
32nd & Chestnut Sts.
Philadelphia, PA 19104
(215) 895-2363

Structural

David A. VanOcker, Chairman
Christakis & Kachele, Inc.
6910 Ludlow Street
Upper Darby, PA 19082
(215) 352-7676

Transportation & Urban Development

William T. Thomsen, Chairman
Urban Engineers, Inc.
300 N. 3rd St.
Philadelphia, PA 19406
(215) 922-8080

Water & Environmental Engineering

Dave Ritter, Chairman
PSC Environmental
649 N. Lewis Rd.
Limerick, PA 19468
(215) 495-0303

LEHIGH VALLEY SECTION STRUCTURAL SEMINAR

The Lehigh Valley Section, ASCE Structural Technical Group, in cooperation with ATLSS, is sponsoring a Seminar on the subject: "Earthquake Resistant Design for Mid-Atlantic States," at Lehigh University, Bethlehem, PA on **March 16, 1989.**

OBJECTIVE

The seminar is designed as an intensive one day short course for those structural designers who are relatively new to the field of earthquake resistant design. It will be based on the 1988 NEHRP (National Earthquake Hazards Reduction Program) Recommended Provision for the Development of Seismic Regulations for New Buildings. The seminar lectures, given by experts in the field, will familiarize the practitioner with background information on earthquakes and their effects on buildings, and will include design examples for steel, concrete, masonry and wood construction. One lecture will deal with foundations and another with bridges. All lectures will emphasize criteria pertinent to the mid-atlantic region.

WHO SHOULD ATTEND

All structural engineers, whether just out of college, or experienced, should find this seminar informative, practical and valuable. Also, those who function as managers, supervisors, designers, planners, fabricators, inspectors, researchers and owners should find this seminar beneficial and interesting.

PROGRAM

Topics to be discussed include the following:

"Earthquake Awareness: Seismic Risk, Measures and Effects," also "Structural Design: Masonry and Timber."

Speaker: **Dr. James P. Harris, P.E.**, Principal of J.R. Harris & Co., whose experience includes the design and evaluation of structures ranging from dwellings to high-rise buildings; his years of research have focused on loadings and responses of structures to earthquakes and snow, and on improving the formulation of engineering standards.

"Structural Design: Building Dynamics, Require-

ments and Analyses."

Speaker: **Dr. Celal Kostem**, Professor of Civil Engineering, Lehigh University, who has been active in earthquake engineering research since the early 1960s.

"Structural Design: Steel."

Speaker: **Dr. Le-Wu Lu**, Professor of Civil Engineering, Lehigh University, who has broad research and consulting experience in Structural Engineering, especially in steel structures, seismic resistant design and design of tall buildings.

"Structural Design: Concrete."

Speaker: **Dr. Peter Mueller**, Associate Professor of Civil Engineering, Lehigh University, has been active in earthquake engineering since 1978, and has published numerous papers on analytical and experimental research on seismic responses and behavior of precast concrete building components (wall panels, etc.) and explicit inelastic seismic design methodologies.

"Structural Design: Foundations."

Speaker: **Dr. Sibel Pamukcu**, Assistant Professor of Civil Engineering, Lehigh University, who has broad research experience in Geotechnical Engineering, and she has published many scientific papers on her specialty.

"Bridges."

Speaker: **Gerald F. Fox, P.E.**, Partner, HNTB Consulting Engineers, who has supervised the design of many major bridges, including the Woodrow Wilson Memorial Bridge, Washington, DC, the Delaware Memorial Suspension Bridge, and others throughout the world.

There will be an optional tour of the ATLSS Research Center's Structural Testing Facility.

The Seminar fee for ASCE members is \$75.00; Non-members - \$95.00; students - \$20.00. The Seminar will be held at the University Center, Room 303, Lehigh University.

For full details and registrations forms, please contact: **William D. Bast**, c/o William D. Bast & Associates, 1414 Millard Street, Bethlehem, PA 18018; phone (215) 694-8777.

EPA SPONSORS DELAWARE ESTUARY PROGRAM

Public meetings will be held in February in Bucks, Philadelphia and Delaware counties for all Delaware Valley residents interested in protecting the environment of the Delaware River and Bay.

The meetings will be the public's first opportunity to participate in the development of the Delaware Estuary Program.

The estuary program is being developed to protect and improve the water quality of the river and bay through long-term planning and management.

The public meetings will be conducted in a workshop format. The purpose of the meetings is to provide information on the estuary program, obtain input on environmental issues and priorities, develop program committees and recruit members for the committees.

The Environmental Protection Agency is funding the Delaware Estuary Program with monies available under the National Estuary Program (NEP). The NEP was established in 1987 to protect and enhance the water quality and living resources of our country's estuaries.

Govs. Robert P. Casey of Pennsylvania, Thomas H. Keane of New Jersey and Michael N. Castle of Delaware jointly nominated the river and bay for the NEP in May of 1988.

For more information on the meetings or the estuary program in general, please contact **William Johnson**, PADER Coastal Zone Management Program, P. O. Box 1467, Harrisburg, PA 17120, (717) 783-9500.

Have You Mailed Your 1989 Dues to National ASCE? (If not, please do so NOW!)