

the news



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

VOL. 58 - I

OUR 73rd YEAR

October, 1985

OCTOBER DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

TUESDAY, OCTOBER 8, 1985

Engineers' Club 1317 Spruce Street, Philadelphia

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

SUBJECT:

**STRUCTURAL ASPECTS OF RECONSTRUCTING THE
STATUE OF LIBERTY**

SPEAKER:

EDWARD COHEN, Managing Partner, Ammann & Whitney



As the most visible civil engineering undertaking of the year, if not the decade, the nationally renowned firm of Ammann & Whitney has been charged with the task of restoring the integrity of the structure that was brilliantly designed by Engineer Gustave Eiffel. Edward Cohen has overall charge of that firm's operations and handles many of the firm's complex works.

Projects which Mr. Cohen and his firm have engineered include the Verrazano Narrows Bridge, Lincoln Center, Dulles Airport, and the TWA Terminal at the (continued on page 2)

NOVEMBER DINNER MEETING TUESDAY, NOVEMBER 12, 1985

SUBJECT:

"THE BUSINESS SIDE OF ENGINEERING" — So, you want to Become A Consulting Engineer?

SPEAKER:

ROY F. WESTON, Chairman, Roy F. Weston, Inc.

As founder in overall charge of an internationally recognized environmental and Civil Engineering consulting firm, Roy Weston is eminently qualified to share with our membership his vast experience in the business aspects of engineering. This program is the first in a series of special, continuing education sessions, discussed in the President's Message and in greater detail in coming issues of THE NEWS.

SPECIAL FEATURE:

VILLANOVA UNIVERSITY NIGHT

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

ASCE Member—\$9.00 Non-Member—\$10.00 Students—\$4.00
STUDENTS — Note that your Dinner Charge is LESS than one-half price. Plan to attend for Dinner or Meeting after Dinner.

TECHNICAL GROUP ACTIVITIES

Construction

October Meeting

Date: *Tuesday, October 29, 1985*

Engineer's Club—7:00 p.m.

Subject: *Rescuing Distressed Construction Projects*

Speakers: *Jack Tanner, Esq.*, and *Glenn Neuman, CPA*, from the Litigation Support Services department of Laventhal & Horwath, CPA's

When a contractor stops work on a project due to financial difficulties, the surety, (or owner) must take firm steps to bring the project back on track. Attempts to expedite the project under these difficult conditions often result in questionable charges being made against the surety. Messrs Tanner and Neuman specialize in containing these costs and in otherwise assisting the surety and owner in minimizing their losses while getting the project back in motion.

Program Host: *Fredric L. Plotnick, Esq.*, P.E., Chairman, Construction Group.

For reservation, please call:
Fredric L. Plotnick at (215) 843-7310 or
(215) 487-1443.

* * *

Water and Environmental Engineering

October Meeting

Date: *Tuesday, October 15, 1985*

Engineers' Club

Cocktails & Hors D'oeuvres—5:00 p.m.
Meeting—6:00 p.m.

Subject: *Groundwater Contamination in A Coastal Plain Aquifer*

Speaker: *Joseph Hochreiter*

Program Host: *John Tunnel*, Chairman, W & EE Group. For reservations, please call Mr. Tunnel at:
(215) 597-4714.

THE PRESIDENT'S MESSAGE

1985 already has brought honor and prestige to our Philadelphia Section and to civil engineers in general by presentation of this year's National ASCE Outstanding Civil Engineering Achievement Award to the City of Philadelphia for the Center City Commuter Rail Connection Project. What a way to start the new season!

But, this is only the beginning of what promises to be a very exciting year.

Already, your Board of Directors, Technical Groups, Committees, Women's Auxiliary and other officers have been busy putting together the monthly Section Technical Group meetings and the Annual Spring Social. As is plain to see from our blockbuster lead story on Programs, this month's presentation on the structural reconstruction of the Statue of Liberty by Managing Partner Edward Cohen of Ammann and Whitney, New York, will be followed in November by Roy F. Weston, Chairman of the Board of Roy F. Weston Incorporated. He will be making a presentation on the business of engineering. Please note that Mr. Weston's presentation to ASCE, almost 15 years ago, significantly influenced your President's career choice.

The November Section meeting has additional significance. It features a renowned speaker, it will be followed by a series of special, subscribed, continuing education sessions dealing with several of the significant challenges that we as civil engineers must face each day, but normally are not trained formally to meet. Topics under consideration, to be announced next month, include Managing People, Stress Management, Managing Liability Exposure, Personal Tax and Financial Planning; Procuring and Managing Computer Functions, and the Latest Techniques Available to Civil Engineers for Data and Mapping Functions.

As Section Officers, we are charged with arranging ASCE activities. We built them on the excellent, dedicated work that has preceded us. Personally, I am already in debt to Immediate Past President *John Durrant* who, even in his retirement, has been so helpful and generous in his support of this year's functions. Certainly, the truly extensive efforts of Bruno Talvacchia and his committee in arranging the September 10th event honoring the Center City Commuter Rail Connection (not to mention his preparation of the document upon which the project was judged) set the pace for this year's activities.

With all of these efforts, there is no doubt in my mind, that the success of the upcoming year will be directly proportional to how much effort you, the Membership, make to be Active. In my judgement, your personal participation in our Philadelphia Section and in ASCE National activities, will probably be the two most effective ways of keeping up with emerging engineering technologies, while at the same time making new friends, a most valuable and enjoyable endeavor.

Best wishes

Sincerely,

IRA N. PIERCE, *President*
Phila. Section, ASCE

OCTOBER DINNER MEETING
(continued from page 1)

John F. Kennedy Airport. In addition to Mr. Cohen's current restoration work at the Statue of Liberty, he is involved in improvements to the West Front of the United States Capitol, the (Tweed) Courthouse in New York City and the oldest Roebling-designed bridge which carried the Delaware Aqueduct over the Delaware River at Lackawaxen. Other current projects under Mr. Cohen's general responsibility include the renovation of the Golden Gate and Williamsburg Bridges, the Performing Arts Center for the University of West Virginia, a new Terminal for Dulles Airport, and United States Embassy security improvements.

As awardee of numerous prizes including the State-of-the-Art Civil Engineering Award in 1974 and Robert Ridgeway Award in 1946, Mr. Cohen is a Fellow of the American Society of Civil Engineers and the American Consulting Engineers Council. He is also an Honorary Member of the American Academy of Sciences and the American Concrete Institute. He has been a consultant to the RAND Corporation, Hudson Institute and other civilian and governmental agencies, and a Lecturer in Architecture at Columbia University.

SPECIAL FEATURE:

SWARTHMORE AND SPRING GARDEN COLLEGE NIGHT

The ASCE Student Chapters, Faculty and Alumni of the Civil Engineering Departments of the Swarthmore College and Spring Garden College will be honored at this meeting. All students, faculty and alumni are cordially invited to attend.

NOTICE

All meetings of the Philadelphia Section — ASCE Board of Directors are open to Section members. Board meetings are held prior to Main Section meetings and begin at 4:30 P.M. Meeting rooms are posted in the lobby at the Engineers' Club. Members wishing to have items considered for inclusion on the meeting agenda should contact the Section's Secretary, Edward Lutz. (See page 2 of THE NEWS for Mr. Lutz' address and phone).

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**COPY DEADLINE FOR
NOVEMBER, 1985 ISSUE
OCTOBER 8, 1985**

THE COMMUTER TUNNEL O. C. E. A. AWARD CELEBRATION

"Talvacchia's Spectacular"

Note: Your Editor is indebted to his Associate, *Joseph R. Syrnick*, for his valued assistance in the preparation of this article. Also, thanks to *Stephen H. Golden*, Chairman of the Section's Structural Group, for his expert photography and the print which appears in the article.

The Philadelphia Section has been honored by National ASCE's designation of the *Philadelphia Center City Rail Commuter Connection* as the recipient of the prestigious *1985 Outstanding Civil Engineering Achievement Award*. To

stants and labor representatives. The colorful setting for the Award Ceremony, tastfully decorated for the occasion by the Philadelphia Office of the Managing Director personnel, was the large concourse at track level, with the magnificent backdrop of the award-winning multi-colored artistic ceramic tile mural on the north wall of the Station platform. A grand and beautiful reception in the handsome Reading Terminal Headhouse, hosted by the Philadelphia Section with the valued and talented assistance of the Women's Auxiliary, followed the Award Ceremony.

The Award Ceremony was set in motion by stirring marches and varied

Robert Buckley, President, Buckley, Inc., representing Contractors' Consortium;

Lewis F. Gould, Chairman of the Board, Southeastern Pa. Transportation Authority (SEPTA);

Peter N. Stowell, Administrator, Region III, United States Urban Mass Transportation Administration (UMTA);

Thomas D. Larson, Secretary of Transportation, Commonwealth of Pennsylvania;

Dr. David A. Van Horn, Director, District 4, ASCE, described the history of the O.C.E.A. Award, and noted many of the previous famous recipients. Dr. Van Horn submitted the official nomination of the Tunnel Project on behalf of the Philadelphia Section.

The highlight of the Ceremony was the presentation of the Award, a strikingly handsome bronze plaque, to the Mayor of the City of Philadelphia, the *Hon. W. Wilson Goode*, by National ASCE President *Richard W. Karn*. Mayor Goode acknowledged the constructive contributions to the gigantic enterprise by previous Administrations, the dedicated labors of the Engineering Design Consultants; Contractors and the City, State and Federal Departments and Agencies who participated in the \$330 million downtown underground link, connecting the commuter rail networks of the former Reading and Pennsylvania Railroads.

Special Award Plaques were presented by President *Ira Pierce* — in the name of the Philadelphia Section — to the following principals, in recognition of their leadership in bringing the Project to fruition.

Robert C. Belfi, Director of Architecture and Engineering, Philadelphia Dept. of Public Property;

Bernard Goldentyer, Project Manager for the Commuter Connection Project, Phila. Dept. of Public Property.

Particular recognition and credits for the unique success of the Project were extended to the following individuals at the podium by ASCE President *Karn*:

Bruno J. Talvacchia, Assistant to the Project Manager, Construction;

Joseph C. Cotrufo, Assistant to the Project Manager, Design;

George Schaeffer, Former Deputy Commissioner, Phila. Dept. of Public Property (now in private practice).

The Reception following the Award Ceremony exceeded the fondest expect-

(continued on page 4)



ASCE National President *Richard W. Karn* presents O.C.E.A. Award Plaque to Philadelphia Mayor, the *Hon. W. Wilson Goode*, representing the City as owner of the Project.

celebrate this distinctive recognition a memorable Award Ceremony and Reception were hosted by the Section on Tuesday, September 10, 1985. The event took place at the Market East Station of the Tunnel Project and the newly completed Reading Station Headhouse adjoining the track platform. An audience of close to 500 persons witnessed or participated in the Presentation Ceremony. Included in the group were Philadelphia Section and National ASCE officials and members, the Section's Women's Auxiliary; City, State and Federal Administrative, Transportation and Legislative dignitaries including Mayor *W. Wilson Goode*, SEPTA officials, principal contractors, consul-

other musical selections performed by the Philadelphia Police and Firemen's Band. Then followed welcoming remarks by Section President *Ira N. Pierce*; and introductions of dignitaries by National ASCE Vice President *Zone 1*, our own *C. R. (Chuck) Pennoni*.

Brief remarks of tribute to those individuals and organizations involved in the great undertaking were made by the Project Team:

Dudley R. Sykes, Commissioner, Phila. Department of Public Property;

General W. Thomas Meredith, Project Manager, Philadelphia Railway Consultants (PRC), General Meredith represented the Design Team;

THE COMMUTER TUNNEL
(continued from page 3)

tations of the Section's Special Committee which planned the function. A delicious buffet luncheon was served. The Headhouse Room was beautifully adorned with flowers and plantings by the Section's Women's Auxiliary. Plastic hard-hats, adorned with the ASCE official logo seal were distributed to the guests in honor of the occasion. Pleasing musical background from the balcony was provided by "The Skylarks" Orchestra.

There cannot be an overabundance of praise and tribute to the Phila. Section OCEA Award Ceremony Committee Chairman: *Bruno J. Talvacchia*, for the intensity and thoroughness of his efforts in supervising the infinite detail of arrangements for the Award Celebration. The tremendously successful event, through Mr. Talvacchia's tenacious initiatives, thus fulfilled its original objective: to call to public attention the outstanding achievements made by Civil Engineers on this important and well-managed Project.

Bruno was ably assisted by his Committee, whose members met with him many times during the summer and worked unselfishly countless hours to assure the success of the Celebration. The Phila. Section members of the O.C.E.A. Award Committee assisting Chairman Talvacchia were:

David Barr, Frank Depman, John E. Durrant, Chuck Pennoni, Ira N. Pierce, Sidney Robin, George Stanley, Joseph R. Synnick, Kenneth J. Zitomer.

Particular thanks are extended to *Pat Queribim*, of Pennoni Associates, Inc., and *Debbie Brooks*, of Kassner-Pierce Consulting Engineers, for their personal invaluable assistance and their Firm's generous contributions of help in compiling the guest lists, preparation and printing of the programs; to the wives of the Sections Award Committee members, who devoted many hours helping their husbands in so many ways; and for Pat's delivering the photograph to the printer *poste haste* by special messenger!

This event will shine for all time in the historic chronicles of the Philadelphia Section, ASCE.

Editor's Note: A full cover-photo and detailed article on the Center City Commuter Connection Project was published in the July, 1985 issue of Civil Engineering Magazine.

SEE YOU AT
THE MEETING

1985 ASCE CONCRETE CANOE RACES

By *Tom Lauer*, Chairman,
Student Chapter Committee

The 1985 Phila. Section ASCE Concrete Canoe Races were held on April 27, 1985 along the east bank of the Schuylkill River. For the second consecutive year *Lehigh University* dominated the action.

The *University of Pennsylvania* fielded a strong team in the Men's Race to take first place. *Drexel University* also had a strong team and collected the silver in the Men's Race. *Lehigh University* then came on to capture first place in the next three races.



In the Women's Race, *Villanova University* beat out two strong *Drexel* canoes to place second behind *Lehigh*. Then the two *Drexel* canoes challenged *Lehigh* in the Faculty Race, but had to be content with second and third places. *Lehigh* had established itself as the team to beat.

In the Mixed Race, *Lehigh* was not to be stopped. The U. of Pa. kept the race close, but *Lehigh* finished first and established itself as the dominant team of the day.

The U. of Pa. received the ACI award as the best constructed and decorated canoe. *Drexel's* number II canoe received the best constructed award and *Temple's* number II canoe was awarded the best decorated.

Special thanks to *Ronald Fanelli, Ed Lauer* and *Norm Hoffman* for their help with arrangements for this year's splendid races.

Results

Men's Race	Women's Race
1 U of P	1 Lehigh
2 Drexel No. II	2 Villanova
3 Villanova	3 Drexel No. II
4 Drexel No. I	4 Drexel No. I
5 Lehigh	
Faculty	Mixed
1 Lehigh	1 Lehigh
2 Drexel No. I	2 U of P
3 Drexel No. II	3 Villanova
4 U of P	4 Temple
5 Villanova	

1986 Daniel W. Mead CONTEST

FOR YOUNGER MEMBERS

The Daniel W. Mead Prize for Younger Members was established in 1939 to honor the memory and accomplishments of the 67th President of the American Society of Civil Engineers. The talents of many of the leaders of the profession were first recognized in previous contests for this significant professional honor. The current contest provides another opportunity for alert young civil engineers to further their professional development and gain national attention.

Rules

* Papers must be written on: "CAN CIVIL ENGINEERS 'MAKE THE DIFFERENCE' BY INVOLVEMENT IN THE POLITICAL PROCESS?"

* The civil engineering profession is continually being governed by new regulations written by political bodies. Many important issues that affect the public works for which civil engineers are responsible are being decided after public debate.

* Many design constraints that engineers are faced with in the areas of wastewater treatment, water quality, drainage and highway design have been dictated by elected officials following appeal by special interest groups.

* Should engineers take a more active role in the public debate? Would we be compromising our professional standing in the community if we do so or are we obligated to actively participate in these public discussions?

* How can civil engineers insure decisions are made based on a full open discussion of the technical issues involved, yet at the same time maintain our objectivity that enables us to implement the mandates of the elected officials.

* Authors must be Associate Members or Members of the Society 32 years of age or less on February 1, in the year of the award.

* Only one person can write each paper.

* Each Section can submit only one paper.

* Papers must contain no more than 2,000 words.

* One winner will be selected from each of the Society's four zones.

* The national winner, selected from the zone winners, will receive a wall plaque and a certificate.

* Winners may be invited to present
(continued on page 5)

**47th Annual
Pennsylvania-Delaware
Student Chapter Regional
Conference**

Submitted by:

Ingrid Pazenzia, Conference Coordinator

Professor Joy M. Pauschke, ASCE
Faculty Advisor
Department of Civil Engineering
University of Pennsylvania

1. Summary

The 47th Annual Pennsylvania-Delaware ASCE Student Chapter Regional Conference and Paper Competition was held on April 19, 1985, at the University of Pennsylvania. The following Student Chapters attended the Conference: Drexel University, Lafayette College, Lehigh University, Swarthmore College, Temple University, and the University of Pennsylvania. Fifty people were in attendance at the conference.

The Conference began at 8:30 a.m. with registration, coffee, and doughnuts. At 9 a.m., the Conference was called to order by the University of Pennsylvania ASCE Student Chapter President, *Ms. Hin-man Lau*. A welcoming address was given by *Dr. John A. Lepore*, Chairman of the Department of Civil Engineering at the University of Pennsylvania. *Ms. Lau* then introduced the judges for the Student Paper Contest:

1986 MEAD CONTEST

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their papers at the ASCE Annual Convention, Boston, October, 1986.

* The paper by the national winner will be published in *Civil Engineering* or *Journal of Professional Issues in Engineering*.

* By February 1, 1986 seven copies of each paper must be submitted through the Section Secretary, *Edward Lutz*, (See page 2) to American Society of Civil Engineers - United Engineering Center, 345 East 47th Street, New York, NY 10017-2398.

Philadelphia Section Younger Members are urged to get to work on the Mead Competition. We are proud of our past winners and want to continue to be in the forefront.

Past Mead Competition winners from the Philadelphia Section are:

1974—*John Spitko*, National Award
1977—*Joseph R. Szyrnick*, Zone 1 Award
1978—*David S. Shaw*, Zone 1 Award
1979—*Haym Bemaroya*, Zone 1 Award
1983—*Gregory J. Neiderer*,
Zone III Award

Mr. Patrick McMackin, *Mr. Sidney Robin*, *Dr. Frederic Roll* and *Mr. Ken Zitomer*.

The paper contest followed for the remainder of the morning. Eleven papers were presented by students from Drexel University, Lafayette College, Lehigh University, Swarthmore College and the University of Pennsylvania. Papers were presented in two categories: Group A, Investigative or Laboratory Research and Group B, General Research. The students were allowed fifteen minutes for their presentations, followed by a brief question and answer period. Following the morning paper contest, the Conference luncheon was held at the University of Pennsylvania Faculty Club. *Ms. Lau* introduced the faculty members in attendance from the University of Pennsylvania, the judges, distinguished members of the American Society of Civil Engineers and the Conference speaker, *Mr. Vincent Kling*.

After the luncheon, *Mr. Vincent Kling*, FAIA, founder and senior partner of The Kling Partnership, Philadelphia, Pa., presented the Conference address "Civil Engineering and Architecture: An Inseparable Wedlock." *Mr. Kling* has been in architectural practice for 40 years and enjoys an international reputation. *Mr. Kling* showed slides which illustrated the structures his firm has designed which have their principal aesthetic in relationship to the structure, not only as the generating force but as the accenting of the visual experience with the structural. *Mr. Kling* emphasized that it is important that the architecture and the aesthetics of a structure indicate the form of the structural support. The ASCE Student Chapter at the University of Pennsylvania was very honored that *Mr. Kling* was able to be the Conference speaker.

Following *Mr. Kling's* presentation, *Mr. Sidney Robin*, Chairman of Judges, presented the awards for the Student Paper Contest. The following prizes were awarded:

First Prize (\$50), Group A:
Craig Young, Lehigh University
"Ground Water Contamination Recovery Research"

First Prize (\$50), Group B:
Russ Pfeifer, Drexel University
"Pipeline Rehabilitation"

Second Prize (\$30 each) Tie:
Michael Keppel, Lehigh University
"A Model for Hazardous Waste Permeability"

Frederick A. Brinker, Drexel University

"Design Considerations for Earth Sheltered Housing"

Third Prize (\$20):

Theodore L. Diwald, Drexel University
"Discussion of Fiber Reinforced Concrete- Steel, Glass and Polypropylene Fibers"

In addition, each participant in the ASCE Student Paper Contest was awarded a \$25 Gift Certificate toward the purchase of ASCE Technical Publications. The gift certificates were furnished by National ASCE Headquarters.

After closing remarks were made by *Ms. Hin-man Lau*, a social hour was held in the Faculty Lounge and Conference guests were taken on a tour of the Civil Engineering laboratories at the University of Pennsylvania.

2. Conference Contributions

Contributions received from the following companies and professional societies for the Conference are gratefully acknowledged:

Kassner-Pierce Consultants, Philadelphia, Pa.

Peer Consultants, Philadelphia, Pa.

D. S. Winokur Associates, Philadelphia, Pa.

National ASCE, New York, N.Y.

Philadelphia Section, ASCE

3. Acknowledgments

The help of the following individuals in organizing and helping on the day of the Conference is gratefully acknowledged:

University of Pennsylvania: *Hin-man Lau*; *Elizabeth Troop*; *Pam Garfield*; *Evan Mead*; *Donald Lim*; *Wayne Dix*; *David Augenbraun*; *Robert Koochagian*; *Tim Connolly*; *Rodger Leonard*.

ASCE: *Mr. Thomas Lauer*; *Mr. Pat McMackin*; *Mr. Sidney Robin*; *Dr. Frederic Roll*; *Mr. Ken Zitomer*.

Editor's Note: U. of Pa. ASCE Student Chapter Faculty Advisor, *Prof. Joy M. Pauschke*, co-author of the above excellent Conference summary, modestly omits her own name from the list of Acknowledgments. Without her deep and dedicated involvement in assimilating the infinite number of details of the Conference — working in concert with the able assistance of U. of Pa. Student Chapter President *Hin-man Lau*, and Conference Coordinator *Ingrid Pazenzia* and their staff — the event could not have been the outstanding success it was.

Sidney Robin,
Chairman of Judges

SECTION ANNUAL AWARDS PRESENTED

As enunciated in his Message (see THE NEWS, October, 1984) Past President *John E. Durrant* implemented during his term a Philadelphia Section *Annual Civil Engineering Awards Program* "... to recognize the special accomplishments of Section Members, and their contributions to the Civil Engineering Profession . . ."

The first Awards were presented by President Durrant at the Section's Spring Social, May 4, 1985 at the Engineers' Club. Beautiful plaques were received by the following individuals in their special categories:

1985 Philadelphia Government Engineer of the Year — Presented to an individual employed by Federal, State, Municipal Government or Public Authority, who has contributed substantially to the Civil Engineering profession.

Awardee: *Robert L. Rowland*, District Engineer, Pa. Dept. of Transportation, Engineering District 6-0, St. David's, Pa. Bob Rowland is responsible for a highway system — in Bucks, Chester, Delaware, Montgomery and Philadelphia Counties consisting of almost 4,000 miles of State Highways and 3,000 bridges. He oversees a staff of more than 1,000 Professional Engineers, designers, construction and maintenance personnel, and an annual budget of \$150 million.

1985 Philadelphia Young Government Engineer of the Year — Presented to a Younger Member employed by Federal, State, Municipal Government or Public Authority, who has contributed substantially to the Civil Engineering profession.

Awardee: *Thomas J. Lauer*, Assistant Resident Engineer, SW Construction, Phila. Water Dept. Plant Expansion Program. Tom Lauer is currently a Section Director, Chairman of the Student Chapters Committee, and has served as Membership Secretary, Associate Member Forum President, and many other special assignments, including Concrete Canoe Races Chairman. Mr. Lauer was Project Engineer and Assistant Resident Engineer for the \$100 million expansion program for the Southwest Water Pollution Control Plant, supervising 15 contractors, 6 inspectors and graduate engineers. Current projects in which he has responsible charge include development of in-house design and construction; and

Contract Administration and Operation Coordination.

1985 Philadelphia Geotechnical Engineer of the Year — Presented to an individual who is judged to have contributed substantially to Civil Engineering, particularly in the geotechnical area.

Awardee: *Dr. Robert M. Koerner*, Professor of Civil Engineering, Drexel University. A Past-President of the Philadelphia Section 1975-76, Bob Koerner is the recipient of numerous awards, especially from the Educators' and Researchers' Communities. In addition to teaching, he is actively involved as a Private Consultant in Geotechnical and Foundation Engineering; research for the U.S. Department of Defense, U. S. Environmental Protection Agency, and many other private groups and Public Departments and Bureaus. He is co-author of textbooks and the author of more than 100 technical papers on Geotextiles, Soil Mechanics, Dam-Failure Detection, Biomedical Engineering, Non-Destructive Testing, Metallurgy, etc. In 1981, Dr. Koerner was elected Delaware Valley Engineer of the Year.

1985 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.

Awardee: *Sidney Robin*, Consulting Engineer and Real Estate Broker. Section Past President Robin (1962-63) has served as History and Heritage Committee Chairman for many years. During his tenure several Philadelphia structures and works have been honored by ASCE as National Historic Civil Engineering Landmarks. These include: (1970) *The Frankford Avenue Bridge Over Pennypack Creek* — the oldest stone-arch bridge still in active highway use in the United States; (1975) *The Philadelphia Municipal Water Supply System* and the *Center Square Works* (originally located at the Site of City Hall) — the first steam-powered water pumping system in the United States; (1978) *The Walnut Lane Memorial Bridge Over The Wissahickon Creek* — the first prestressed beam reinforced concrete bridge constructed in the United States.

Among numerous other Phila. Section offices, activities and special assignments, Sid Robin has been Chairman of Publications and Editor of THE

NEWS for more than 40 years. He has chaired the Committee of Judges of the Pa.-Delaware ASCE Student Chapters Annual Conference and Paper Competition since 1963. In private practice, he is actively engaged in Structural Evaluation of real estate properties for Brokers, Mortgage companies, and Federal Housing Agencies; as well as conducting his own real estate and housing design, construction, brokerage and property maintenance practice.

1985 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.

Awardee: *Celestino R. (Chuck) Pennoni*, Founder, President and Chairman, Pennoni Associates, Inc., Consulting Engineers. Section Past-President Pennoni (1978-79) was elected 1985 Delaware Valley Engineer of the Year. He started his business as a one-man (himself) operation in 1936 and has expanded it to his present multi-disciplined staff of over 100 engineers, architects, planners, surveyors and technical and computer support personnel. His range of services includes: civil, structural, mechanical, electrical, transportation, environmental engineering; building design; planning; surveying. Chuck has taught at Temple University College of Engineering Technology; Guest-Lectured at Temple, Widener, Villanova and University of Pennsylvania universities and Swarthmore College. He has authored numerous technical papers, published in CIVIL ENGINEERING MAGAZINE, ASCE Journals, American Arbitration Association publications, and other diverse professional periodicals and literary journals. He has served in civic and governmental appointed positions and panels as Advisor, Arbitrator, Executive Committee Member and Consultant.

The Philadelphia Section extends its congratulations to all the 1985 recipients, and looks forward to a continuation of this admirable Awards Program.

YOUNGER MEMBERS — ASSOCIATE MEMBER FORUM

Younger members (under the age of 32) or ASCE Associate Grade members who wish to participate in local section and/or national activities please contact *Thomas Lauer*, Chairman of Phila. Section's Student Chapter Committee, phone (215) 365-5166.

ITEMS OF INTEREST

Photo Contest Winner

The winners of ASCE's First Annual Photo Contest were selected from hundreds of entrants at a June meeting at Society Headquarters in New York. One of the ten Awards of Merit was won by a photo submitted by *John E. Murray, Jr.*, Bergmann Associates, Glenside, Pa. (photo by Anthony L. Pantalone).

This winning photo (below) shows



Kevin Gross rappelling down the face of a bridge abutment, holding a surveying rod. This imaginative and extraordinary effort was made in order to establish the profile of the abutment to be used in making repairs.

The inspection and engineering for the rehabilitation of the bridge, which is on the Media-West Chester line of SEPTA, was completed by *Bergmann Associates*, Consulting Engineers and Planners.

WOMEN'S AUXILIARY

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Past President—

Mrs. Edwyn L. (Mary) Shoemaker, Jr.

September Meeting

The first Luncheon-Meeting of the Auxiliary's 1985-1986 season took place at the Engineers' Club on Wednesday, September 18, 1985.

Guest speaker was a representative of Philadelphia Electric Company, whose subject was: "*Fashion Story Past and Present.*" The presentation featured energy-conservation fashion tips and how to dress in the "layered look" — keeping warm by using proper fabrics and still maintaining a stylish appearance.

October Meeting

The October regular Luncheon-Meeting of the Section's Women's Auxiliary will be held on *Wednesday, October 16, 1985, 12:00 noon* at the Engineers' Club. "*Choices*" — Information on different types of telephone service plans will be described by staff of Bell of Pennsylvania. A question and answer period will be held following the presentation.

For reservations, please call *Mary Ellen (Mrs. Warren R.) Van De Vort*, (215) 483-0714.

Wives of Section members are cordially invited to join the Women's Auxiliary, to attend all its meetings and functions and to bring guests. For full information about membership application please call Membership Committee Chairperson *Marie (Mrs. Kenneth J.) Zitomer*, (215) 548-5324.

In 1955, she began a nine-year association with the prominent architect Fero Saarinen and worked on many of his projects, including Dulles International Airport, the TWA terminal at New York's John F. Kennedy Airport, the Gateway Arch in St. Louis and the American Embassy in London.

MEMBERS IN THE NEWS

The ASCE Management Group D announces the appointment of *Glen M. Johnson* as a member of the Executive Committee of the Water Resources Planning & Management Division. This appointment will become effective October 1, 1985 for a term running until September 30, 1989. The appointment was announced recently by Harry N. Tuvel, Manager, Technical Services, Technical Activities Committee.

*

S. T. Hudson International of Philadelphia, Pa., has announced an addition to the Hudson International Group, HUDSON GEOTECH INTERNATIONAL, which provides expert technical consulting in the fields of Geology, Geophysics, Soils, Environmental Sciences, Hydrology and Oceanography to clients in the financial industry and legal profession. *E. Paul Hartzell, P.E.*, has been elected Chief Executive Officer of Hudson Geotech International.

Mr. Hartzell has over 35 years experience in the Geotech industry and is a nationally recognized authority in the field of Disaster Mitigation, both natural and environmental.

Hartzell and his wife, June, reside in Southampton, Pa.

DOROTHY CARLIN, ENGINEER

Editor's Note: Special thanks to Section Director *Sue Lior* for bringing this interesting item to the attention of THE NEWS.

Dorothy Allison Carlin, a Philadelphia native who was one of the nation's first female civil engineers, died recently in Dunn Loring, Va. She was 86.

Born in Philadelphia on Sept. 25, 1898, she attended the city's School of Industrial Arts. She sought to attend the University of Pennsylvania's school of engineering, but was denied admission because she was a woman, said her daughter-in-law, Rosemarie Carlin. Undaunted, she became the seventh woman ever admitted at Cornell University's engineering school and graduated from there in 1924.

In the 1920s and 1930s, she became one of the first women employed as a civil engineer in the nation, and she worked on the first plans for a high-speed commuter rail line between Philadelphia and Camden County. She also worked for the consulting engineering firm of Modjeski, Masters & Chase, and was the first woman ever employed by Philadelphia's city transit department.

In the 1940s, she quit work to raise a son, Alan, while her husband, Phillip H. Carlin, also a civil engineer continued working.

ASCE DUES BILL AND TECHNICAL GROUP DETAILS

Section members will notice in the 1986 dues bill from National ASCE Headquarters, that the PHILADELPHIA (SECTION) DUES is itemized as \$12.00. 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 Chairmen of the Technical Groups of your preference*, so that their membership lists can be classified.

The appropriate individuals to contact are the following:

Liaison

Norman G. Weintraub
Phila. Water Dept.
29th & Cambria Streets
Philadelphia, PA 19121
(215) 686-1635 (215) 228-7078

Associate Member Forum

Anthony Micciolo, Chairman
1141 Dyre Street
Philadelphia, PA 19124
(215) 744-8767

Construction

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

Engineering Management

Susan Lior, Chairlady
Peer Systems, Inc.
112 South 12th Street
Philadelphia, PA 19107
(215) 925-3196

Geotechnical

Moustafa A. Gouda, Chairman
Lippincott Engineering Associates
501 Burlington Avenue
Delanco, New Jersey 08075
(609) 461-1239

Structural

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

Transportation and Urban Development

Dan Winokur, Chairman
Winokur Associates
399 Market Street
Philadelphia, PA 19106
(215) 627-2440

Water and Environmental Engineering

J. Richard Weggel, Chairman
Dept. of Civil Engineering
Drexel University
32nd and Chestnut Streets
Philadelphia, PA 19104
(215) 895-2355

RCC SEMINAR

On November 21, 1985 the Portland Cement Association plans co-sponsoring and participating in a roller-compacted concrete (RCC) seminar near the site of the Monkville Dam to be constructed in northern New Jersey. The other co-sponsors and co-owners, North Jersey Water Supply Commission and the Hackensack Water Company, are developing a new reservoir, which will entail the construction of a roller-compacted concrete dam approximately 2000 ft. long and 120 ft. high. The program will include presentation of RCC design and construction procedures, including mixing, transporting, spreading, compacting, and bonding of layers. The design and planned construction of this dam will be presented. A site visit is also planned.

The seminar should benefit contractors, Consulting Engineers, testing laboratories, and owners of potential similar projects. Phila. Section, ASCE members are cordially invited to participate.

For details and registration forms, contact *Randall C. Cronin* at (215) 643-7363 or *William G. Dinchak* at (312) 966-6200, both of whom are with the Portland Cement Association.

AN ASTUTE OBSERVATION!

In a recent talk to a group of manufacturers, Commerce Secretary, Malcolm Baldrige declared: "There are too many accountants, lawyers and marketing people running companies. We need more engineers, because we're getting beat on the factory floor."

Let's hope the nation's producers of goods and services realize the true significance of that statement.

TO ALL ASCE MEMBERS:

If you have paid your Phila. Section, ASCE, dues and your National Society dues, you are welcome to join the Engineers' Club of Phila., for \$50.00 per person, per year.

For full details, please contact *Jozsef L. deKovacs*, General Manager. The Engineers' Club, 1317 Spruce St., Phila., PA 19107 (215) 735-5234.

PAPERS ON WOOD STRUCTURES WANTED

The ASCE Task Committee on Classic Wood Structures is preparing a publication which will contain short papers on approximately 100 classic wood structures in the United States. In the Phila. Metropolitan area, for example, we plan to have articles about the Delaware Aqueduct designed by John A. Roebling, the Cloisters in Ephrata, the roller coaster at Hershey Park and Burr truss covered bridges.

Authors are sought to write an article for each of the structures. Perhaps there are engineers in the Phila. Section who are particularly knowledgeable about one of the structures; or students may be interested in learning more about some of these structures and who would like a chance to write a paper for an ASCE publication.

Authors should follow ASCE guidelines for preparing manuscripts, and the maximum length of each article will be 10 pages. Our deadlines are to have first drafts completed by November, 1985; and final drafts completed by March, 1986. Complete details and guidelines for the publication will be sent to potential authors as they respond.

Anyone interested in writing an article should contact *Eric Hendrickson*, Regional Editor, Bldg. 226, Rm. B168, National Bureau of Standards, Gaithersburg, MD 20899, telephone (301) 921-2186.

ASCE JOB EXCHANGE

Members in search of employment, and members who have jobs available at their offices are invited to communicate by mail to Editor, Sid Robin, 64 Nancy Drive, Richboro, PA 18954.

NAVY CIVIL ENGINEER CORPS OFFICER:

Engineers and architects with accredited degree; 19 to 35 years old. Positions available as commissioned officers working in construction management, public works, and SEABEES.

Contact *Robert W. Hyde*, Lieutenant, CEC, U. S. Navy Accession Officer at (215) 897-6488 for more information.

ATTEND

ALL

MEETINGS

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