

the news



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PHILADELPHIA SECTION

AMERICAN SOCIETY OF CIVIL ENGINEERS

1317 Spruce Street, Philadelphia, PA 19107

VOL. 60 - 1

OUR 75th YEAR

October, 1987

OCTOBER DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

TUESDAY, OCTOBER 13, 1987

Engineers' Club, 1317 Spruce Street, Philadelphia

Cocktails - 5:30 P.M.

Dinner - 6:30 P.M.

Meeting - 7:30 P.M.

SUBJECT:

**PROGRAM DEVELOPMENTS FOR THE PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION**

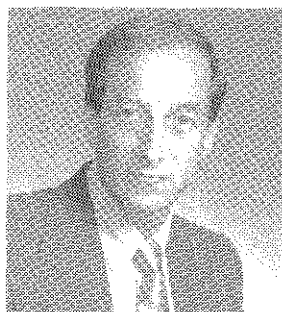
SPEAKER:

HOWARD YERUSALIM, P.E., Secretary, Pennsylvania Department of Transportation

Secretary Yerusalim honors the Philadelphia Section, ASCE as its first speaker of the 1987-1988 season.

As the senior Transportation official in the Commonwealth, he will present an overview of PennDOT's agenda and its anticipated program developments.

Howard Yerusalim received his BSCE in 1962 and took graduate courses at Drexel University. A Registered Professional Engineer, he achieved increasing levels of responsibility in PennDOT since joining it in 1968. He served as the Department's Deputy Secretary for Administration from 1983 until he was named Acting Secretary on January 20, 1987. Governor Casey named Mr. Yerusalim as Secretary-Designate in February, 1987, and he was confirmed



unanimously by the State Senate on March 2, 1987.

(continued on page 2)

TECHNICAL GROUP ACTIVITIES

Construction Group

October Meeting

Date: **Tuesday, October 20, 1987**

Engineers' Club

Meeting - 7:00 P.M.

(This program is a rescheduling of the January 22, 1987 meeting, which was cancelled because of bad weather).

Subject: **Rehabilitation of the George C. Platt Memorial Bridge**

Speaker: **James L. Au, P.E.**, Vice President, Structures Division, Herbert R. Imbt, Inc., State College, PA

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

Mr. Au holds a BSCE from Penn State University, and he is a Registered Professional Engineer in Maryland, Delaware and Pennsylvania. He is currently working in the State College area. His last completed project was another high visibility project: Section 813 of the Pennsylvania Turnpike Widening Project (Bucks County).

Water & Environmental Engineering Group

October Meeting

Date: **Tuesday, October 20, 1987**

Engineers' Club

Cocktails - 5:30 P.M.

Dinner - 6:00 P.M.

Lecture - 6:30 P.M.

Subject: **The Merrill Creek Reservoir Pump Storage Project**

Speaker: To be announced

Program Host: **Farid F. Mansour**, Chairman, Water & Environmental Group

For reservations and full details, please contact Mr. Mansour at United Engineers & Constructors, Inc. (215) 422-3376.

ACI SEMINAR

The Delaware Valley Chapter of the American Concrete Institute will sponsor a one day seminar **October 7, 1987** at the Holiday Inn City Line.

(continued on page 2)

NOVEMBER JOINT DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

TUESDAY, NOVEMBER 10, 1987

ENGINEERS' CLUB, 1317 Spruce Street, Philadelphia

Cocktails — 5:30 P.M.

Dinner — 6:30 P.M.

Meeting — 7:30 P.M.

SUBJECT:

ROLE OF GEOTECHNICAL ENGINEERS IN ENVIRONMENTAL MANAGEMENT

SPEAKER:

DR. SALAH ABDELHAMID, P.E., Vice President, Roy F. Weston, Inc., West Chester, PA

Dr. Abdelhamid will provide an assessment of specific functions and contributions of Geotechnical Engineers relative to the current national campaign for environmental restoration and management. The presentation will place emphasis on the technical and management tools which they must master.

SPECIAL FEATURE: WIDENER UNIVERSITY NIGHT

Please call Mr. de Kovacs at the Engineer's Club immediately (215-735-5234), for reservations. Dinner Meal Charge:

ASCE Member—\$12.00

Non-Member—\$13.00

Students—\$5.00

STUDENTS: Note that your Dinner Charge is LESS than one-half price. Plan to attend for Dinner or Meeting after Dinner.

THE PRESIDENT'S MESSAGE

If you can judge by first impressions, the Philadelphia Section is in for a great year. The first impression I'm referring to is the Spring Social, held at Maureen's. By any measure it was a success. The delicious food, seeing old friends, honoring fellow Civil Engineers, music and dancing all contributed to a memorable evening. I can't imagine a nicer way to begin a term of office. The Women's Auxiliary deserves our super abundant thanks.

Coinciding with the beginning of our Section's business year is the celebration of the 200th anniversary of the Constitution. There are parades, fireworks, meetings, speeches, exhibits — even the Magna Carta. As an American, I am proud to help celebrate 200 years of the successful experiment in democracy. As a Philadelphian it's a lot of fun to host and partake in a five month long party. As part of the festivities on September 17, ASCE members can join in the honoring of one of the City's most visible civil engineering landmarks. The Section is supporting the efforts of the American Institute of Architects and the Philadelphia Chamber of Commerce to illuminate the Ben Franklin Bridge. I cannot think of a project that more eloquently underlines the professional goals of civil engineering as a whole as well as the sub-specialties and at the same time honors a great man who epitomizes the engineering ethic. I strongly urge all of you to join the Section in supporting this project.

As your President, I hope that I can equal the record of my predecessors, giants of the engineering community who have made the Section what it is today. I want to give you, the members, the leadership, the services and the representation you deserve. Fortunately, having **Sid Robin** to remind me of the next deadline, **Sue Lior** as an always energetic

President-Elect, **Rich Weggel** as Vice President, the other Officers, Directors and Past Presidents make this goal far more attainable than it would be otherwise.

I believe it will be an interesting year. The program is a mixture of professional subjects — Peer Review, the proposed ASCE Manual of Practice — and the more traditional technical subjects such as Environmental Management, Nuclear Waste and the Frankford Elevated.

At least one meeting (December's) will be at Drexel University's Student Activities Center, not at the Engineers' Club. We are also trying to set up another monthly meeting (February) in the suburbs, which you will hear more about later.

The bottom line is that we are trying to find out what you want. Do you want all the meetings to be at the Engineers' Club or should some be in the suburbs or other City locations? Will you pay more? How much more? Is that all? Will enough of you make reservations so that the Section's treasury isn't endangered by every "away" meeting? The Section is yours. It is what you want it to be. Tell me or any of the other officers in person, by phone, mail (note that the EPA has banned smoke signals without having done an EIS).

The Philadelphia Section has an award winning newsletter, a meeting schedule that includes over 30 professional and technical group meetings and is one of the most active Sections in the country. We have a heritage to be proud of, a heritage we can build on.

I wish us all a good year.

Sincerely,

Norman G. Weintraub, President
Phila. Section, ASCE

ACI SEMINAR

(continued from page 1)

"Troubleshooting Concrete Problems . . . and How to Prevent them in the Future"

Designers, contractors, owners and ready mixed concrete suppliers will benefit from the experience of nationally prominent presenters as they address troubleshooting fresh and hardened concrete problems — with a look at how to prevent problems from occurring.

Determining the cause and extent of low compressive strength, cracking, honeycombing, scaling, deterioration, rebar corrosion, thin sections in slabs and misplaced rebars can be costly and time-consuming.

Topics to be covered include Troubleshooting Fresh Concrete, Low Strengths, Slabs on Grade, Formed Concrete, Precast and Prestressed Concrete, and Techniques Used in Troubleshooting Concrete.

For more information write **H. Wilden Associates, Inc.**, 315 E. Main St., Macungie, PA 18062, or call (215) 966-3935 and ask for brochure.

PHILADELPHIA SECTION AMERICAN SOCIETY OF CIVIL ENGINEERS

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**COPY DEADLINE FOR
NOVEMBER 1987 ISSUE
OCTOBER 13, 1987**

OCTOBER DINNER MEETING

(continued from page 1)

The Secretary's experience embraces management positions in the administration of the highway program, including responsibility for developing and monitoring the Department's 12-year transportation program, amounting to \$1 billion annually in highway and bridge construction. As Deputy Secretary, Mr. Yerusalem supervised five key administration bureaus in a Department with over 12,700 employees and an annual budget in excess of \$3 billion.

Before joining PennDOT, he was a weights engineer with Boeing Corp.; and a bridge and highway design engineer with Modjeski and Masters, Inc., in Philadelphia from 1962 to 1968.

SPECIAL FEATURE:

DREXEL UNIVERSITY NIGHT

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

FOR RESERVATIONS FOR THE OCTOBER 13TH SECTION MEETING
PLEASE CONTACT **IMMEDIATELY BILL THOMSEN**,
CHAIRMAN TRANSPORTATION & URBAN DEVELOPMENT GROUP,
C/O URBAN ENGINEERS INC.

300 NORTH 3RD STREET, PHILA., PA 19106

(215) 922-8080.

AMERICAN SOCIETY OF CIVIL ENGINEERS**Philadelphia Section****1987 SALARY and BENEFITS SURVEY**

Editor's Note: The Philadelphia Section's gratitude and high praise are extended to President **Norman G. Weintraub**, who as Employment Conditions Committee Chairman prepared the Salary and Benefits Survey Questionnaire mailed to the Membership with the May-June 1987 issue of THE NEWS. Mr. Weintraub also prepared the following report on the results.

This report is the seventh survey of the Philadelphia Section of the American Society of Civil Engineers. The first report was prepared in March, 1972, the second in the Spring of 1976, the third in the Fall of 1979, the fourth in the Fall of 1981, the fifth in the Summer of 1983 and the sixth in the Summer of 1985. It is expected that the reports will continue to be made bi-annually, with the next questionnaire included with the April, 1989 Newsletter.

Where possible, the following summary also shows the results of the prior surveys.

The results of the seventh bi-annual ASCE, Philadelphia Section Salary and Benefits survey are in. Our typical member is a 35 year old white male and has worked for 13 years. He has gone beyond a Bachelor's Degree, and is either working on or has gotten a Master's Degree, and is a Registered, Professional Engineer. He is salaried, working for a consulting firm doing primarily technical work while supervising three subordinates. This is his second job and he has worked for his current employer 6 years. He earns \$44,000 per year and does not get paid overtime hours. His benefits include 9 days vacation, 10 holidays, 3 days sick leave. Hospitalization and Major Medical are company paid. He does not have company paid dental or optical plans and he contributes to his company disability and pension plan.

As far as trends, there is a five year drop in the median age of respondents (to 35), salaries are up 10%. There were 220 responses this year as compared to 172 in the 1985 survey.

SECTION A - PERSONAL DATA

	SURVEY DATES			
	1987	1985	1983	1981
1. Age — Average	39.2	40.2	39.3	39.8
— Minimum	22	20	20	22
— Maximum	97	76	82	74
— Median	35	37	36	37
2. Yrs. of Full Time Employment				
— Average	16.2	17.6	16.3	16.7
— Minimum	0	0	1	1
— Maximum	80	55	82	74
— Median	13	15	13	14
3. Race (Percent)				
Caucasian	97	95		
Negro	0	1		
Hispanic	1	1		
Asiatic	2	2		
Other	1	1		
4. Sex (Percent)				
Male	92	92		
Female	8	8		
5. Education (Percent)				
No Degree	2	2	2	2
BS	46	37	37	36
BS plus 15 hours	18	15	19	21
Master's Degree	30	40	35	33
Doctorate Degree	4	6	7	7

6. ASCE Membership Grade
(Percent)

Student	3			
Associate	36	33	37	33
Member	55	60	55	60
Fellow	6	6	7	5
Life	0	1	1	2

7. Registration (Percent)

E.I.T.	55	55	54	55
P.E.	64	75	71	74
L.S.	8	12	14	13

8. Membership in Other
Professional/Technical
Organizations

— Average	1.6	1.8	1.2	1.3
— Maximum	6	9	6	9

SECTION B - EMPLOYMENT DATA

	SURVEY DATES			
	1987	1985	1983	1981
1. Income Source (Percent)				
Self-Employed	4	3	5	20
Salaried	95	94	93	75
Commissioned	1	1	1	4
Retired	1	2	2	1
Unemployed	0			
Student	0			
2. Type employer or Self-employed (Percent)				
Consultant	51	53	47	47
Contractor/Builder	9	7	8	5
Federal Government	7	6	7	13
State Government	3	2	2	10
Municipal, Local or Regional Government or Authority	12	12	12.5	7.5
Utility (Public and Private)	4	6	5.5	6
Manufacturer	5	5	8	6
Education	3	3	3	2
Sales	0	1	1	.5
Other	6	5	6	0
3. Primary Responsibility (Percent)				
Technical	53	49	51	36
Sales	2	2	2	16
Supervisory	25	20	18	36
Administrative	17	19	21	12
Other	3	10	8	0
4. Supervision (No. of Employees)				
Average	17.7	15.5		
Maximum	750	360		
Median	3	5		
5. Number of Different Employers since Graduation	2	2.7	2.8	2.8
6. Second Job (Percent)				
None	93	93		
Salaried	3	4		
Self-Employed	9	2		
Other	4	1		
7. Years with Current Employer	9.3	9.2	9.3	8.8
— Minimum	0	1	1	0
— Maximum	43	44	36	40
— Median	6	6	7	6

SECTION C - SALARY AND BENEFITS

	SURVEY DATES			
	1987	1985	1983	1981
1. Salary - Average	48,900	41,700	38,800	36,500
— Maximum	470,000	80,000	99,000	65,000
— Median	44,000	40,000	37,000	33,000
2. Bonus/Commission				
— Percent Receiving	37	38	—	—
— Average	2,220	407	2,400	2,600
— Maximum	9,000	7,500	99,000	76,000
3. Overtime Remuneration (Percent)				
— None	48	54	47	
— Time	20	12	19	
— Straight Pay	22	23	24	
— Time & A Half	10	10	9	
— Double Time	0	1	1	
4. Vacation (including Administrative Leave, Personal Days, etc.)				
— Average Days Off	9.2	15.8	16.2	16.5
— Median Days Off	9	15	15	15
5. Holidays	10	9	9	9.5
6. Company-Paid Sick Leave (Days)				
— Average	31.7	17.7	20.9	25
— Median	3	10	12	
— Minimum	0	0	0	6
— Maximum	100	Unlim.	Unlim.	Unlim.
7. a) Hospitalization Insurance (Percent)				
ALL	55	51	54	61
PART	42	46	44	35
NONE	3	3	2	4
b) Major Medical (%)				
ALL	51	49	51	39
PART	44	47	46	33
NONE	5	4	3	28
c) Dental Plan (%)				
ALL	22	18	17	18
PART	36	31	43	23
NONE	42	51	40	59
d) Optical Plan (%)				
ALL	9	9	7	12
PART	22	21	17	23
NONE	69	70	76	65
7. e) Disability Insurance (%)				
ALL	32	35	33	39
PART	39	40	38	38
NONE	29	25	29	23
f) Life (%)				
ALL	45			
PART	42			
NONE	13			
8. Pension Plan (%)				
YES	73	73	70	67
— 100% Com. Paid	23	34	31	17
— Emp. Contribution	77	66	69	83
NO	27	27	30	33
9. Profit Sharing (%)				
YES	36	35	39	73
NO	40	49	61	27
NOT APPLICABLE	24	16		

10. Formal Severance Pay (%)				
YES	27	29	35	53
NO	73	71	65	47
11. Tuition Reimbursement (%)				
NONE	24	25	26	31
PARTIAL	23	24	28	56
100%	53	51	46	13

SECTION D - OPINIONS (PERCENTAGES)

	SURVEY DATES			
	1987	1985	1983	1981
1. Are you Satisfied with your current employment situation?				
Unsatisfied	4	5	2	
Somewhat Unsatisfied	21	22	23	
Satisfied	26	20	25	
Mostly Satisfied	36	33	34	
Very Satisfied	13	20	16	
2. Do you believe that, in your current employment situation, you are performing true engineering work?				
Yes	50	50	55	
No, Administration, supervisory, business, promotion, etc.	41	40	37	
No, primarily technician/draftsman	4	3	4	
No, other functions	5	7	4	
3. Do you believe that your work is properly reviewed?				
Yes	34	41		
Yes, but could be better ..	42	35		
No	17	16		
Not applicable	7	8		
4. Do you think you will be looking for a new job within the next 2 years?				
Salary	12	1		
Problems with Boss	6	4		
Lack of Responsibility	6	6		
Other	44	23		
5. Critical Job Concerns				
Pay and Benefits	23	25		
Company Reputation	7	6		
Responsibility	20	30		
Security	5	5		
Location	9	4		
Type of work	26	25		
Other	10	5		
6. Ease of Finding New Job				
Very Easy	22	13		
Easy	42	45		
Somewhat Difficult	29	36		
Difficult	7	6		
7. Do you believe your salary, considering your experience and ability, compared to other Civil Engineers, is:				
Much Lower	2	3	4	17%
Lower	26	21	25	57%
Similar	42	50	52	16%
Higher	26	24	17	8%
Much Higher	4	2	2	2%

SURVEY DATES
1987 1985 1983 1981

8. Do you believe your fringe benefits, compared to other Civil Engineers, are:				
Much Lower	6	3	2	7%
Lower	19	10	17	39%
Similar	41	48	45	31%
Higher	29	27	30	20%
Much Higher	5	3	6	3%

9. Is your professional physical environment (office appearance, privacy, secretarial support, etc) important to you?	
YES	77
NO	23

10. Are you satisfied with your professional physical environment?	
YES	71
NO	29

11. Do you agree or disagree with the following statements?

a. Registration should be required for all Engineers as a condition of continued employment

AGREE	36	37	37	40
DISAGREE	64	63	63	60

b. Continuing Education should be required to maintain registration

AGREE	49	49	49	53
DISAGREE	64	51	51	51

c. Consulting work may be competitively bid when the requirements are reasonably well defined

AGREE	67	62	64	58
DISAGREE	33	38	36	42

d. Advertising, by engineers, that is not self-laudatory is acceptable

AGREE	91	92	85	
DISAGREE	9	8	15	

On behalf of ASCE, I would like to thank the Philadelphia Water Department for assisting in processing and analysing the response, particularly Lee Ticker and Paula Pasternak who made the task much easier.

Respectfully Submitted,

Norman Weintraub,
President, Phila. Section, ASCE
Chairman,
Salary & Benefits Committee

FOUNDATIONS SEMINAR

The Soils and Foundation Group of the ASCE Metropolitan Section will present its biennial seminar on the evenings of November 3 and 4, 1987 at the United Engineering Center, 345 East 47th Street, New York City. The theme of the Seminar is **"Foundation Problems in the NY Metropolitan Area"**. Seminar hours will be from 3:50 p.m. to 9:00 p.m. each evening, with a break for dinner from 6:00 p.m. to 7:00 p.m.

TUESDAY, NOVEMBER 3 WEDNESDAY, NOVEMBER 4

VARVED CLAYS	UNDERPINNING
Charles C. Ladd	Mei Febesh
Mass. Institute of Technology	Urban Foundation Company, Inc.

SLURRY ELEMENTS	USE OF MINI PILES IN NEW YORK
George J. Tamaro	Nassef Soliman
Mueser Rutledge	Parsons Brinckerhoff
Consulting Engineers	

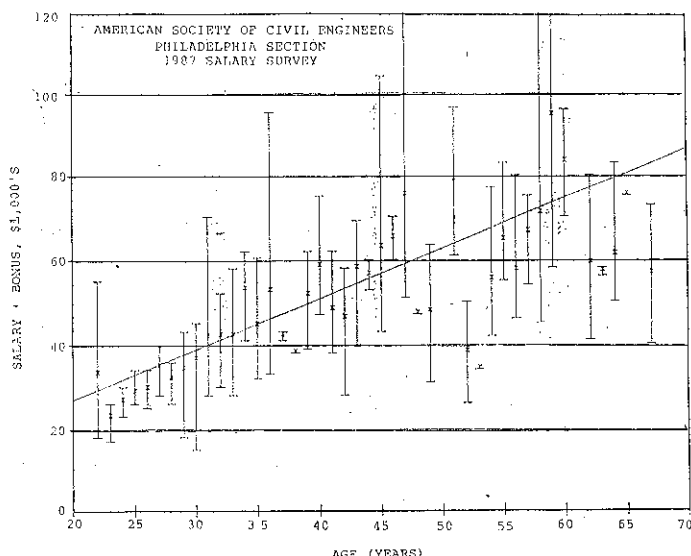
DINNER BREAK DINNER BREAK

PERMANENT DEWATERING	DEEP FOUNDATIONS IN NYC
John F. Donohoe	Melvin I. Esrig
Moretrench American Corp.	Woodward-Clyde Consultants

ANCHOR FOUNDATIONS IN TENSION	FOUNDATION PROBLEMS AT THE NORTH RIVER PROJECT
Fred H. Kulhawy	Dov Kaminetzky
Cornell University	Feld, Kaminetzky & Cohen, P.C.

For those who do not pre-register by mail, registration at the door will be held from 3:30 p.m. to 3:50 P.M. on Tuesday, November 3. Registration rates, which include dinners and a bound set of proceedings, are \$90 for pre-registration, \$120 for registration at the door, and \$40 for full-time students. Pre-registration is strongly recommended.

For registration material or additional information, please call **David Good** at (212) 490-7110.



SECTION'S 1987 AWARDS PRESENTED AT SPRING SOCIAL

by David J. Perri, Staff Writer

The Philadelphia Section's annual Civil Engineering Awards were presented during the gala Spring Dinner Dance at Colleen's Restaurant and Towne Hall on June 13, 1987. Six local engineers were honored for their significant contributions and meritorious service to the engineering profession.

Young Engineer of the Year

David J. Perri, Engineer for the Philadelphia Water Department, was the recipient of the *Young Civil Engineer of the Year Award*. Mr. Perri, a 1984 graduate of Drexel University was honored for his contributions to the Section and for his professional achievement. He has served as Chairman of the Philadelphia Section's Hospitality Committee, Staff Writer for the award winning THE NEWS, member of the Student Chapter Committee, and as a delegate to the Society's Northeast Regional Younger Member Conference. As the first supervisor of the Water Department's Quality Certification Staff, Mr. Perri has championed the Department's Vendor Surveillance effort from its inception in 1984. His efforts have resulted in significant improvements to the quality of materials manufactured for the City's water and sewer systems. Understanding the importance of commitment to the profession, Mr. Perri has completed continuing education courses at Drexel University and at the Engineers' Club and has become a member of the American Society of Quality Control.

Government Engineer of the Year

Lawrence M. Moy, Chief Highway Engineer for the city of Philadelphia Department of Streets, was honored as *Government Engineer of the Year*. Mr. Moy directs the Streets Department's Highway Division which is responsible for all construction, maintenance, permit administration and snow removal for over 2,100 miles of roadway and 200 bridge structures. During his seven years as Chief Engineer, Mr. Moy and his staff have implemented a major program of rehabilitation and restoration of the City's highway network. The current rehabilitation of Market Street from 5th Street to City Hall is one of the most challenging and complex projects ever administered by the Highway Division. This project will provide the cornerstone to establish Market Street East as the Champs Elysees of Philadelphia.

The Highway Division with over 500 employees has an annual budget of more than \$38 million. Mr. Moy introduced innovative management techniques to ensure the efficient deployment of available manpower and materials. Despite the many demands placed on his position, Mr. Moy has demonstrated a very professional approach to his duties.

Structural Engineer of the Year

Dr. Frederic Roll, Professor Emeritus at the University of Pennsylvania, was presented with the *Technical Award for Structural Engineering*. Dr. Roll has been a member of Penn's faculty for over thirty years where he has instructed courses in reinforced and prestressed concrete design. He obtained his Bachelor of Science in Civil Engineering Degree from City College of New York and his Master and Doctorate degrees from Columbia University. After teaching Civil Engineering courses at Columbia, he accepted a faculty position at Ivy League rival Penn in 1957. In addition to teaching and conducting research in Structural Engineering, Dr. Roll is also an eminent Engineering Consultant. As a dedicated member of several Technical Societies, he has served the Philadelphia Section as President, Chairman of the Structural Group, and in many Board and official capacities.

Construction Engineer of the Year

Michael J. Gabor, President and Chief Operating Officer of J.E. Brenneman Co., was the recipient of the *Technical Award for Construction Engineering*. Mr. Gabor directs the operation of the Foundation Division, specializing in the construction of cofferdams, slurry walls, deep foundations, piles, and earth support systems. He obtained his Bachelor of Science Degree in Civil Engineering from the Pennsylvania State University in 1961. His career began with the Pennsylvania Department of Transportation where he served first as Resident Engineer on several construction projects and then as a Highway Design Engineer. In 1964, he entered private industry when he was hired by J.E. Brenneman Co. to perform engineering duties related to pile driving and waterfront construction. Mr. Gabor left Brenneman in 1972 when he was appointed President of United A & E, Inc. He returned to J.E. Brenneman in 1974 as President and Chief Operating Officer.

Civil Engineering Manager

The *Civil Engineering Manager Award* was presented to **John J. Gillespie**, Vice President - Municipal Division of Pennoni Associates. As Division Head, Mr. Gillespie is responsible for managing client services for fourteen townships and boroughs in Bucks, Montgomery, Chester, and Delaware Counties. Projects under his charge have included: preparing the plans and specifications for the demolition of Haverford's 7.6 MGD Sewage Treatment Plant, developing a sanitary sewer manhole inspection program and report for Yeadon, and providing design and administrative services for the reconstruction of Lansdowne's storm water system.

Mr. Gillespie has served as President of the Philadelphia Chapter of the Pennsylvania Society of Professional Engineers, Vice President of the Southeastern Region of the Professional Engineers in Private Practice, and as Chairman of the Delaware Valley Engineers Week Committee. He is a member of several Professional Societies, including the American Public Works Association and the Institute for Municipal Engineering. Mr. Gillespie has also

shared his extensive management and engineering skills with the community as Treasurer of the Mid-County Lion's Club and as a member of the Delaware County Board of View.

Engineer of the Year

The Section's highest award was presented to an individual who has distinguished himself as a creative and resourceful engineer, dedicated to providing the highest quality of service. **Moustafa A. Gouda's** Civil Engineering career began in 1964 in Cairo, Egypt as a Resident Engineer for the construction of the Hurghada Sheraton Hotel. Presently, he is a Principal of Lippincott Engineering Associates where he is also the Geotechnical Department's Chief Engineer. Mr. Gouda directed the Logan Project, a geotechnical site evaluation of the sinking homes in the Logan Section of Philadelphia. He handled all coordination between his company, the City of Philadelphia, and the residents for this highly publicized project. While researching the history of the site and analyzing field and laboratory data, Mr. Gouda developed innovative testing procedures to more accurately evaluate the unusual conditions that exist at the site. His service to the Logan community has earned him the respect of government officials, colleagues, and the Logan residents.

Mr. Gouda, a Registered Professional Engineer in four states, has a double Masters degree in Civil Engineering and is a visiting Professor at Mercer County College and the New Jersey Institute of Technology. To quote Wayne Lippincott, President of Lippincott Engineering Associates, "Mr. Gouda is a credit to the engineering profession in general, and an excellent example for all true professionals."

This year's awards ceremony featured a synchronized slide and pre-recorded sound presentation. Aaron Copeland's "Fanfare for the Common Man" served as an introduction to the announcement of the award winners. Images of Philadelphia past and present were projected while President/recording star **Albert Tantala** described the engineer's role in the City's development. Awardees' personal portraits and engineering projects were then shown with Awards Committee Member **Joanna McErlean** providing the voice-over describing the recipients' accomplishments.

Following the slide presentation, President Tantala presented each award winner with an 8" x 10" engraved walnut plaque bearing the ASCE logo. The awardees then took the opportunity to address the audience and present a short acceptance speech.

Kudos for a professional and inspiring awards ceremony are in order for Awards Committee members Albert Tantala, John Durrant, Robert Wright, and Joanna McErlean. Many hours of hard work were necessary to produce the soundtrack and slides that made the ceremony an unqualified success.

HAZARDOUS WASTE ENGINEER WANTED

- knowledge of D.E.P
- n.j. design & run sampling
- contamination program
- familiarity with ecra, njpdes, rcra - a plus

For information contact **Joe Pearson**, Additional Support, Inc. 215-947-5430

MEMBERS IN THE NEWS

Farrell Joins Realty Firm

Philadelphia Section Past President **Joseph R. Farrell, Jr.** (1964-1965), Retired President of Joseph R. Farrell, Inc., Builders, has joined the firm of Emlen Wheeler Company, Realtors, as Realtor Associate. The firm's office is at 131 Lancaster Ave., Devon, PA 19333.

The Philadelphia Section extends to Joe its best wishes for success in his new career.

Alan Cohen Associates Relocates

Alan Cohen Associates, Inc., announces that its new office location is: 25 Rock Hill Road, Bala Cynwyd, PA 19005 - phone: (215) 664-8814. The firm specializes in Engineering Consultation, Owner Representation, Expert Services, and Inspection.

de Kovacs Twice Honored

Josef L. de Kovacs, C.C.M., C.F.B.E., Executive Manager of the Engineer's Club of Philadelphia, has been awarded the *Certified Hotel Administrator* (C.H.A.) designation by the Educational Institute of the American Hotel and Motel Association. The C.H.A. is the highest credential offered by the Educational Institute. To qualify, hotel/motel executives must demonstrate academic achievement and industry experience.

Mr. de Kovacs has been previously certified by the American Club Management Association as a C.C.M., and also earned a degree as *Certified Food and Beverage Executive* (C.F.B.E.).

This past June, Mr. de Kovacs received the 1987 *Man-of-the-Year Award* from the International Rotary Club, 764th District. The award, highest honor that a citizen can receive from the International, was presented by New Jersey Governor Thomas Kean at a ceremony at the Little Mill Country Club on June 20, 1987.

49th ANNUAL STUDENT CHAPTER CONFERENCE

Temple University's Civil Engineering Department and Student Chapter were the hosts of the 49th Annual Pennsylvania-Delaware ASCE Student Chapter Regional Conference and Paper Competition on April 24, 1987. Four papers were presented (six had been programmed, but two participants were unable to attend the conference). Student representatives from Drexel, Temple and Widener Universities made oral presentations of papers which they authored or co-authored during their school semesters, on varied subjects.

The Conference and Paper Competition was established by the Philadelphia Section in 1926, to indoctrinate students to make presentations of their original compositions - before audiences of their peers - on diverse topics of civil engineering interest.

Classification of Papers

The papers were classified into two categories: **Group A**, which involves laboratory testing and experimentation as well as investigative research; and **Group B**, which requires no lab work, but focuses on literary research and analysis.

Papers Judged for Awards

The papers were judged and evaluated on the basis of composition content, oral presentation, and overall professional quality. Judges were: **Sidney Robin**, Past President of the Philadelphia

Section and Chairman of Publication, perennial Chairman at these competitions; **Patrick J. McMackin**, Manager of Consulting Services, K & H Professional Management Services, Inc., Reading, PA; and **Dr. John Rumpf**, Professor Emeritus of Civil Engineering, Temple University.

Outstanding Papers Presented

The four excellent papers were delivered confidently by their authors. Included in each presentation was a brief discussion period in which members of the audience directed questions and comments to the speakers relevant to their papers.

Guest Speakers

Features of the Conference, after the student papers presentations, were interesting talks by distinguished guests: **George C. Cavallo, P.E.**, Project Manager, Gilbane Building Co., Philadelphia, made a slide presentation on the ambitious renovation project, "*Renovation of the Lit Brothers Department Store Building*."

Marie E. McGuiness, Student Services Manager, National ASCE Department of Education and Professional Affairs, advised the student audience on professionalism and the importance of membership in ASCE, and participation in activities at the National and Local Section levels. She emphasized the "4-C's" principal foci of keys to success in the profession: confidence, competence, contact and communication.

Dr. John Craig, Professor of Civil Engineering, New Jersey Institute of Technology and Chairman of the Committee on Student Services, spoke about the Concrete Canoe Race to be held in connection with the ASCE National Convention in Atlantic City in the Spring of 1987.

Following the talks by the guest speakers, Chairman of Judges **Sidney Robin** presented the awards for the Student Paper Competition. The following were the prize awards:

First Prize (\$50.00)

Group A - "The Behavior of Unstiffened Seated Beam Connections," by **Chris Bergeman, George Bock, Tony Guerrieri, Dan Hiester, Steve Nardelli**, Widener University. Messrs. Bock and Nardelli made the presentation on behalf of all the co-authors.

Group B - "A Preliminary Investigation of Cracking in Adjacent, Composite, Prestressed Box Beam Bridges," by **John A. Nawn**, Drexel University.

Second Prize (\$35.00)

"The Effects of Accelerators on Fly Ash Concretes," by **Christopher Manz**, Drexel University. (Group A).

Third Prize (\$25.00)

"Multi-Level Parking Structure: A Preliminary Design," by **Dennis Crosby**, Temple University. (Group B).

In addition to the cash prizes all authors and presenters received gift certificates for technical books, courtesy of National ASCE.

Acknowledgement and high praise for the success of the Conference through their hard work and dedication are due: Temple University ASCE Student Chapter officers **Paul Sykes**, President, **Emmanuel Anastasiadis**, Chairman and **Michael Scott**, Vice President; Faculty Advisor **Dr. Robert J. Stone**; and **Dr. Stephen G. Jochum**, Associate Professor of Civil Engineering, Temple University.

Kudos to Lauer and Perri

As usual, the Philadelphia Section Student Chapter Committee Co-Chairmen **Tom Lauer** and **Dave Perri** coordinated the arrangement for the exceptional Conference with competence and thoroughness. Mr. Lauer has since left the Philadelphia area, to settle with his new bride, in Salem, Oregon, where he is employed by the Oregon State Highway Department.

David J. Perri, a valued Staff member of the Philadelphia Section's THE NEWS, succeeds Tom Lauer as Chairman of the Committee. The Philadelphia Section knows and expects that Dave will continue to fill Tom's expert shoes, just as he has performed so many other assignments so capably for the Section.

WOMEN'S AUXILIARY

Officers 1987-1988

President —

Mrs. Charles E. (Claire) Roller, Jr.

Vice President —

Mrs. Kenneth J. (Marie) Zitomer

Recording Secretary —

Mrs. Joseph A. (Pat) Schulcz

Corresponding Secretary —

Mrs. Celestino R. (Annette) Pennoni

Treasurer —

Mrs. William K. (Natalie) Clayton

Past President —

Mrs. Peter C. (Diane) Johnson

September Meeting

The Auxiliary's inaugural regular monthly Luncheon-Meeting was held at the Engineers' Club on Wednesday, September 16, 1987, 12:00 noon. Guest speaker was **Mr. Dave Kimball**, an official of the National Park Service. The title of his presentation was: "*Our Constitution and Its Uxorial* (Latin for wife) **Members**," a discussion of the human side of the signers of the Constitution.

October Meeting

The October regular Luncheon-Meeting will take place at the Engineers' Club on **Wednesday, October 21, 1987, 12:00 noon**. The Auxiliary's own - Past President **Mary (Mrs. Edwyn L.) Shoemaker** - will make a slide presentation on the subject: "*Travels in Greece*," based on a trip abroad by Mary and Ed.

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.

LIBBY IRWIN

With deep regret, the Section announces the death, on July 9, 1987, of **Elizabeth C. (Mrs. Harry F.) Irwin**. Affectionately known as "Libby" to her friends and family, she was a member of the Women's Auxiliary almost from its inception, served a term as its President, and then as Historian for many years.

The Philadelphia Section Members and the Women's Auxiliary extend their heart-felt sympathy to husband Harry - himself long a dedicated member of the Philadelphia Section - and to their son and daughter and their families.

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 \$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 you \$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

J. Richard Weggel
Drexel University
Dept. of Civil Engineering
Philadelphia, PA 19104
(215) 895-2355

Younger Member Forum

Anthony M. 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

Chairman position available.
If interested, please contact
J. Richard Weggel
(see "Liaison" above).

Geotechnical

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

Structural

Timothy H. Haahs, Chairman
Walker Parking Consultants
2 Penn Center Plaza
Philadelphia, PA 19102
(215) 751-9555

Transportation and Urban Development

William T. Thomsen, Chairman
Urban Engineers, Inc.
300 N. 3rd Street
Philadelphia, PA 19106-1193
(215) 922-8080

Water and Environmental Engineering

Farid F. Mansour, Chairman
United Engineers & Constructors, Inc.
30 S. 17th Street
Philadelphia, PA 19101
(215) 422-3376

COMMUNICATIONS SKILLS SEMINAR

The New Jersey Section, ASCE and the New Jersey Society of Professional Engineers are jointly sponsoring a two-day Seminar on: *"Technical Communication Skills for Professionals: Written, Oral, Non-verbal Communications."*

• **October 22 and 27, 1987**

Forsgate Country Club
Jamesburg, NJ

• **October 29 and November 3, 1987**

New Jersey Institute of Technology
Newark, NJ

November 5 and 10, 1987

Landmark Inn
Maple Shade, NJ

The Seminar will cover:

Effective Writing - including skills in preparing technical information, letters, memos, graphic aids; how to decrease wordiness and still get the point across; various resources for the improvement of technical writing; and much more.

Effective Oral and Non-Verbal Communication - including confidence in speaking; analysis and overcoming fear of confronting an audience; characteristics of effective language in speech writing; clarity and interest; factors of attention; effects of voice accuracy; articulation, audibility, credibility, authority; and much more.

The Instructor of the Seminar is **Dr. Herman A. Estrin**. He is one of the foremost authorities on technical communication in the United States. He has written eleven books and more than 400 articles on communication, journalism, and education. He has taught technical writing, English and journalism at New Jersey Tech for forty years.

For fees, full details about the Course and registration forms, please contact **Dr. R. John Craig, P.E.**, Office - (201) 596-2464; Home - (201) 751-7430.

ENGINEERING OPENINGS

LIPPINCOTT ENGINEERING ASSOCIATES

Growing, Burlington County, New Jersey Consulting Engineering firm seeking experienced people for the following positions.

ENGINEERING DIRECTOR (CIVIL)

Must have P.E. and 15 yrs. experience, Masters or Equivalent, in land and site development to head Civil Engineering Division. Salary is negotiable.

CIVIL DESIGNER/DRAFTSPERSON

Minimum 5 yrs. experience in land and site development. Must furnish work product at interview. Salary is negotiable.

GEOTECHNICAL/ENVIRONMENTAL ENGINEER

Must have BS Civil, MS Civil, or 3-5 yrs. Environmental experience in hazardous waste investigation and mitigation work. Knowledge of Health & Safety procedures a must. Includes field and office work. Salary is negotiable.

SURVEY TECHNICIAN/DRAFTSPERSON (Multiple Openings)

Requires drafting experience or training and ability to reduce and plot survey rates. Outside work possible. Salary is negotiable.

SURVEY PARTY CHIEF

Year-round work. Top salary negotiable.

We offer full company benefits, including professional advancement, Pension Plan, and Dental Coverage. Please send resume to:

Lippincott Engineering Associates
501 Burlington Avenue • Delanco, New Jersey 08075

Attention: **Steve Berger**
(609) 461-1239

An Equal Opportunity Employer

QUALITY DESIGN PUBLICATION

Bill Hayden, a Fellow in the American Society of Civil Engineers and an active member of ASCE's National Capital Section Engineering Management Group, is the publisher of a new source for professional services quality management information.

Seven easy steps to improve quality control are among the many highlights in the premiere issue of the QUALITY BY DESIGN™ Newsletter, the new Planning and Design Professional's Quality Management Newsletter. The newsletter also includes a thirty-five point short form quality audit checklist; explains how to get your staff to commit when you're not there; and offers eight success points to consider when QA is asked to help QC document their program.

Concern is on the increase nationwide over rising liability premiums, increased claims and improving professional standards of care in design office practices. Now is the time to revitalize or establish your formal quality control plan. Quality assurance for the constructed project starts in the designer's office.

Civil Engineers and other design professionals need current how-to-do-it QA/QC information. For a complimentary copy of Bill's QA/QC Resource List and information on the QUALITY BY DESIGN™ Newsletter, contact A/E Quality Management Association, P.O. Box 2822, Silver Spring, Maryland, 20902.

POSITION AVAILABLE

Delaware County builder/real estate developer is seeking a civil engineer to fill a newly created position. Job duties include some design work, management of outside design firms, negotiating with subcontractors, purchasing of materials and management of construction. Salary commensurate with skills and experience. Contact **Frank McKee**, The McKee Group, Builders and Developers, at (215) 284-4900

MANAGEMENT RESOURCES AVAILABLE

A recent survey conducted at ASCE's Zonal Management Conferences, clearly indicates a need for resources relating to the management aspects of: Productivity, Computer Management, Litigation, Scheduling and Planning, Cost Control, Motivation, Supervision, Appraisal and Review, Responsibility and Authority.

Many sections throughout the country are responding to these needs through established Engineering Management Groups. These Management Groups provide the opportunity, resources and forums for exchanging ideas and information while providing guidance and feedback.

The Management Division has available, for the asking, a newly designed Activities Handbook, for establishing Engineering Management Groups, for those Sections and Branches interested in providing their membership with additional resources to help improving management at all levels. In addition, your society publishes one of the best management Journals available anywhere at any price and, if you are interested in management, you should be a subscriber.

The Philadelphia Section solicits its membership to find an individual to assume chairmanship of its **Engineering Management Group**. If you are interested, please call Section Vice President, **Dr. J. Richard Weggel**, Technical Group liaison, at Drexel University Civil Engineering Dept., (215) 895-2355.