

# the news



PHILADELPHIA SECTION

AMERICAN SOCIETY OF CIVIL ENGINEERS

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VOL. 58 - 2

OUR 73rd YEAR

November, 1985

## NOVEMBER DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

**TUESDAY, NOVEMBER 12, 1985**

Engineers' Club 1317 Spruce Street, Philadelphia

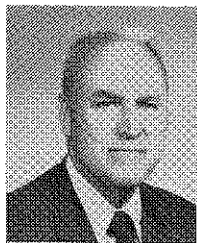
Cocktails — 5:30 P.M.      Dinner — 6:30 P.M.      Meeting — 7:30 P.M.

**SUBJECT:**

**THE BUSINESS SIDE OF ENGINEERING**

**SPEAKER:**

**ROY F. WESTON**, Chairman of the Board, Weston Designers, Consultants



Our November speaker is eminently qualified on the subject, with 27 years in the consulting business as head of the internationally recognized environmental and civil engineering consulting firm that bears his name. That experience was preceded by 16 years in the petroleum industry, 2 years of academic experience and 2 years in the governmental sector. His career has covered the entire spectrum of the major disciplines involved in environmental science and technology, with particular interests in management and in the interrelationships of and coordination with the diversified component activities.

Mr. Weston has a Doctor of Engineer (Honoris Causa) from Drexel University, and a Master of Civil Engineering degree (Sanitary Option) from New York University. (continued on page 2)

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## DECEMBER DINNER MEETING TUESDAY, DECEMBER 10, 1985

**SUBJECT:**

**PLANNING, DESIGNING AND CONSTRUCTION REPLACEMENT HOUSING FOR OSAGE AVENUE RESIDENTS.**

**SPEAKER:**

**HON. JAMES WHITE**, Managing Director of the City of Philadelphia

As Managing Director of the City of Philadelphia, Mr. White is responsible for the ten operating City departments, including, Police, Fire, Water, Streets, Health, Recreation, Human Services, Public Property, Licenses and Inspections and Records.

Mr. White will be providing attendees with insights into the highly complex Osage Project as well as into his enormous responsibilities.

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

ASCE Member—\$10.00      Non-Member—\$11.00      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

Transportation and Urban Development

*November Meeting*

Date: *Thursday, November 14, 1985*

Engineers' Club—7:00 p.m.

Cocktails: 5:30 p.m.

Dinner: 6:00 p.m.

Subject: *East Market Street Rehabilitation — Center City, Philadelphia*

Program Host: *Daniel S. Winokur, Chairman*

A general overview of the rehabilitation of East Market Street which should shortly go into construction and provide an uplift to Market East of City Hall. An opportunity to discover the magnitude of the project and extraordinary efforts provided by City Officials, City Professional Staff and Consultants to bring together and obtain the support of State and Federal Agencies, as well as, from the business community.

For reservations, please call: Florence Malcom at Winokur's Office, (215) 627-2440.

\*

Water and Environmental Engineering

*November Meeting*

Date: *Tuesday, November 19, 1985*

Engineers' Club—6:30 p.m.

Dinner: 5:30 p.m.

Subject: *Corrosion in Ductile Iron Pipe Water Systems*

Speaker: *Harry Niles*, Ductile Iron Pipe Research Association

Program Host: *John Tunnell*, Chairman, W & EE Group.

For reservations call John Tunnell at (215) 597-4714 by November 15, 1985.

ATTEND ALL  
MEETINGS THIS YEAR

## IMPORTANT!! 1985-1986 Meeting Notices

THE NEWS is now being mailed at Non-Profit Organization Bulk Rate. While this promises postage savings to the Section, it also runs the risk of much longer delivery time from your local post office to your mail box. Therefore, please refer to your 1985-1986 Section Meeting Program Schedule and mark your calendar for all meetings and social functions. Listed below is a summary of remaining meeting dates.

### All Dinner Meetings —

Cocktails: 5:30 p.m. — Dinner: 6:30 p.m. — Meeting: 7:30 p.m.

### Tuesday, December 10, 1985 — Section Dinner Meeting, Engineers' Club

Topic: *Planning, Designing and Constructing Replacement Housing for Osage Avenue Residents*

Speaker: *Hon. James White*, Managing Director of the City of Philadelphia

### Tuesday, January 14, 1986 — Section Dinner Meeting, Engineers' Club

Topic: *Philadelphia's Integrated Solid Waste Management Program — Designing Refuse Derived Fuel (RDF) Production Facilities*

Speaker: *Hon. Harry M. Perks*, Commissioner, Philadelphia Department of Streets  
*Drexel University Night*

### Tuesday, February 11, 1986 — Section Dinner Meeting, Engineers' Club

Topic: *The Hazards of Litigating Geotechnical Problems — and their Solutions*

Speaker: *Dr. George Sower*, Professor of Civil Engineering, Georgia Inst. of Technology, Atlanta, Ga.  
*Temple Univ. and Univ. of Pa. Night*

### Tuesday, March 11, 1986 — Section Dinner Meeting, Engineers' Club

Topic: *The Rebirth of Commercialized City Centers — The Festival Malls*

Speaker: *Robert M. Cameron*, Group Vice President, The Rouse Development Company, Columbia, Md.  
*Widener Univ. and Spring Garden Night*

### Tuesday, April 8, 1986 —

*Joint Dinner Meeting with Philadelphia Post, Society of Military Engineers*

Officers Club, U. S. Naval Base Philadelphia

Topic: *Meeting the Engineering Challenges of a Modern Navy*

Speaker: *Commodore Richard F. Butts, USN*, Commander U. S. Naval Base Philadelphia

### Saturday Evening, May 3, 1986

*Annual Spring Social*

Location to be announced in THE NEWS

## NOVEMBER DINNER MEETING

(continued from page 1)

versity, and a Bachelor of Science Degree in Civil Engineering (also with a Sanitary Option) from the University of Wisconsin. He also took public health engineering studies from the University of Minnesota.

Our speaker's distinguished record of public and committee services is extraordinary, and includes ASCE activities in Pollution Control Engineering, Solid Waste Management and Sanitary Engineer Research. He was President of Pennsylvania Water Pollution Control Association; a Past Chairman of the American Consulting Engineers Council Ad Hoc Advisory Committee on EPA programs and also Past Chairman of the ACEC Solid Waste Committee; is a past member of the Visiting Committee of the College of Engineering, Drexel University; a present Member of the Department Advisory Council of the Department of Civil and Urban Engineering, University of Pennsylvania and is a member of the Governor's Energy Council of Pennsylvania as well as Chairman of its Ad Hoc Committee of Synfuels.

### SPECIAL FEATURE:

#### VILLANOVA UNIVERSITY NIGHT

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

## ACI Seminar - Concrete Design using the Micro Computer

Enclosed with this issue of THE NEWS is a brochure with full details about the ACI Seminar to be held at Temple University, Philadelphia, Pa., on November 19, 1985. As co-sponsors, ASCE members are entitled to register at the \$155.00 fee. On the brochure registration form insert, please check the block: "ACI Member Fee, \$155" and add: "ASCE Co-sponsor."

If further information is required, contact *Randall C. Cronin*, of the Portland Cement Association, at (215) 643-7363.

## PHILADELPHIA SECTION AMERICAN SOCIETY OF CIVIL ENGINEERS

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**COPY DEADLINE FOR  
DECEMBER, 1985 ISSUE  
NOVEMBER 12, 1985**

# AMERICAN SOCIETY OF CIVIL ENGINEERS

## Philadelphia Section

### 1985 SALARY and BENEFITS SURVEY

*Editor's Note:* The Philadelphia Section's gratitude and high praise are extended to Employment Conditions Committee Chairman *Norman G. Weintraub*, who prepared the Salary and Benefits Survey Questionnaire mailed to the Membership with the April-May, 1985 issue of THE NEWS. Mr. Weintraub also prepared the following report on the results.

This report is the sixth 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 biannually, with the next questionnaire included with the April, 1987 Newsletter.

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

The results of the sixth bi-annual Phila. Section ASCE Salary and Benefits Survey are in. Our typical member is 37 years old and has worked 15 years. He has gone beyond a Bachelor's degree, and is either working on or has earned a Masters, and is a Registered, Professional Engineer. He is salaried, working for a consulting firm doing primarily technical work while supervising 5 subordinates. This is his third job and he has worked for his current employer 6 years. He earns \$42,000 per year working 43 hours a week, not getting paid for any extra hours. His benefits include 15 days vacation, 9 holidays, 10 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. I wonder if there is actually anybody who matches this description?

As far as trends, salaries are up 7.5% and bonus/commissions are down. There were 172 responses this year as compared to 186 in the 1983 survey.

### Section A - Personal Data

	SURVEY DATES			
	1985	1983	1981	1979
1. Age — Average .....	40.2	39.3	39.8	38.9
— Minimum .....	20	20	22	
— Maximum .....	76	82	74	
— Median .....	37	36	37	
2. Yrs. of Full Time Employment				
— Average .....	17.6	16.3	16.7	16
— Minimum .....	0	1	1	
— Maximum .....	55	56	48	
— Median .....	15	13	14	
3. Race (Percent)				
Caucasian .....	95			
Negro .....	1			
Hispanic .....	1			
Asiatic .....	2			
Other .....	1			
4. Sex (Percent)				
Male .....	92			
Female .....	8			

### SURVEY DATES

	1985	1983	1981	1979
5. Education (Percent)				
No Degree .....	2	2	2	1
BS .....	37	37	36	34
BS plus 15 hours .....	15	19	21	23
Master's Degree .....	40	35	33	33
Doctorate Degree .....	6	7	7	9
6. ASCE Membership Grade (Percent)				
Associate .....	33	37	33	34
Member .....	60	55	60	60
Fellow .....	6	7	5	5
Life .....	1	1	2	1
7. Registration (Percent)				
E.I.T. ....	55	54	55	17
P.E. ....				
— 1 State .....	46	39	37	
— 2 States .....	12	13	15	
— 3 States .....	7	4	5	
— Over 3 States .....	10	15	17	
	75	71	74	73
L. S. ....	12	14	13	6
8. Membership in Other Professional/Technical Organizations				
— Average .....	1.8	1.2	1.3	
— Maximum .....	9	6	9	

### Section B - Employment Data

1. Income Source (Percent)				
Self Employed .....	3	5	20	
Salaried .....	94	93	75	
Commissioned .....	1	1	4	
Retired .....	2	2	1	
2. Type Employed or Self Employed (Percent)				
Consultant .....	53	47	47	39
Contractor/Builder .....	7	8	5	9
Federal Government .....	6	7	13	9
State Government .....	2	2	10	0
Municipal, Local or Regional Government or Authority .....	12	12.5	7.5	15
Utility (Public or Private) .....	6	5.5	6	11
Manufacturer .....	5	8	6	8
Education .....	3	3	2	3
Sales .....	1	1	.5	4
Other .....	5	6	0	1
3. Primary Responsibility (Percent)				
Technical .....	49	51	36	49
Sales .....	2	2	16	1
Supervisory .....	20	18	36	24
Administrative .....	19	21	12	25
Other .....	10	8	0	1
4. Supervision (No. of Employees)				
Average .....	15.5			
Maximum .....	360			
Median .....	5			
5. Number of Different Employers Since Graduation				
	2.7	2.8	2.8	2.85

## SURVEY DATES

1985 1983 1981 1979

## 6. Second Job (Percent)

None .....	93
Salaried .....	4
Self Employed .....	2
Other .....	1

## 7. Years with Current

Employer .....	9.2	9.3	8.8	8.84
— Minimum .....	1	1	0	
— Maximum .....	44	36	40	
— Median .....	6	7	6	

**Section C - Personal Data**

1. Salary — Average .....	41.7	38.8	36.5	28.6
— Maximum .....	80.0	99.0	99.0	65.0
— Median .....	40.0	37.0	33.0	

## 2. Bonus/Commission

— Percent .....	38			25
— Average .....	407	2.4	2.6	5.7
— Maximum .....	7.5	99.0	76.0	44.0
— Minimum .....				100

## 3. Salaried Employees

Yes .....	93	95%		
No .....	7	5%		

## 4. Working Hours/Wk.

— Average .....	43.9	42.8		
— Median .....	43	40.0		
— Maximum .....	65	65.0		

5. Overtime Renumeration  
(Percent)

— None .....	54	47		
— Time .....	13	19		
— Straight Pay .....	23	24		
— Time & A Half .....	10	9		
— Double Time .....	1	1		

6. Vacation (including  
Administrative Leave,  
Personal Days, etc.)

— Average Days Off .....	15.8	16.2	16.5	15.1
— Median Days Off .....	15	15	15.0	

## 7. Holidays

	9	9	9.5	9
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## 8. Company-Paid

## Sick Leave (Days)

— Average .....	17.7	20.9	25	
— Median .....	10	12		
— Minimum .....	0	0	6	
— Maximum .....	unlim.	unlim.	unlim.	

## 9. a) Hospitalization Ins. (%)

ALL .....	51	54	61	
PART .....	46	44	35	96
NONE .....	3	2	4	4

## b) Major Medical (%)

ALL .....	49	51	39	
PART .....	47	46	33	
NONE .....	4	3	28	

## c) Dental Plan (%)

ALL .....	18	17	18	
PART .....	31	43	23	
NONE .....	51	40	59	

## d) Optical Plan (%)

ALL .....	9	7	12	
PART .....	21	17	23	
NONE .....	70	76	65	

## SURVEY DATES

1985 1983 1981 1979

## e) Disability Insurance (%)

ALL .....	35	33	39	
PART .....	40	38	38	68
NONE .....	25	29	23	32

## 10. Pension Plan (%)

YES .....	73	70	67	81
— 100% Comp. Paid .....	34	31	17	44
— Emp. Contribution .....	66	69	83	37
NO .....	27	30	33	19

## 11. Profit Sharing (%)

YES .....	35	39	73	33
NO .....	49	61	27	67
NOT APPLICABLE .....	16	—	—	—

## 12. Formal Severance Pay (%)

YES .....	29	35	53	37
NO .....	71	65	47	63

## 13. Tuition Reimbursement (%)

90-100% .....	54	46	56	62
50- 90% .....	24	28	13	12
NONE .....	25	26	31	26

## 14. Flextime (%)

NO .....	54	84		
YES—Core Hr. ....	28	11		
YES—Core Wk. ....	0	0		
YES—Other .....	18	5		

**Section D - Opinions (Percentages)**1. Are you satisfied with  
your current employment  
situation?

Unsatisfied .....	5	2
Somewhat Unsatisfied .....	22	23
Satisfied .....	20	25
Mostly Satisfied .....	33	34
Very Satisfied .....	20	16

2. How many people do you  
believe are at least  
satisfied with their  
present job?

20% or less .....	4
30% or less .....	3
40% or less .....	10
50% or less .....	28
60% or less .....	17
70% or less .....	26
80% or more .....	12

3. Are you performing true  
engineering work?

YES .....	50	55
NO, Administrative or Supervisory .....	40	37
NO, Technician or Draftsman .....	3	4
NO, Other Functions .....	7	4

4. Do you believe your work  
is properly reviewed

YES .....	41
YES, BUT COULD BE BETTER .....	35
NO .....	16
NOT APPLICABLE .....	8

## SURVEY DATES

1985 1983 1981 1979

## 5. Reasons for seeking new employment within 2 years

Do Not Expect To .....66  
 Not Satisfied With Pay ..... 1  
 Problems With Boss ..... 4  
 Not Enough Responsibility 6  
 Other .....23

## 6. Critical Job Concerns

Pay and Benefits .....25  
 Company Reputation ..... 6  
 Responsibility .....30  
 Security ..... 5  
 Location ..... 4  
 Type of Work .....25  
 Other ..... 5

## 7. Ease of Finding New Job

Very Easy .....13  
 Easy .....45  
 Somewhat Difficult .....36  
 Difficult ..... 6

## 8. Do you believe your salary, considering your experience and ability, compared to other Civil Engineers, is:

	1985	1983	1981	1979
Much Lower	3	4	17%	3%
Lower	21	25	57%	25%
Similar	50	52	16%	50%
Higher	24	17	8%	19%
Much Higher	2	2	2%	3%

## 9. Do you believe your fringe benefits, compared to other Civil Engineers, are:

	1985	1983	1981	1979
Much Lower	3	2	7%	3%
Lower	10	17	39%	17%
Similar	48	45	31%	38%
Higher	27	30	20%	37%
Much Higher	3	6	3%	5%

## 10. Do you desire flextime?

	1985	1983
NO	24	30
YES, Core Hr.	33	33
YES, Core Wk.	29	31
YES, Other	14	6

## 11. Do you agree or disagree with the following statements:

	Agree		Disagree	
	1985	1983	1985	1983
a. Registration should be required for all engineers as a condition of continued employment	37	37	63	63
b. Continuing education should be required to maintain registration	49	49	51	51
c. Consulting work may be competitively bid when the requirements are reasonably well defined	62	64	38	36
d. Advertising, by engineers, that is not self-laudatory, is acceptable	92	85	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 Mike Pense who made the task much easier.

Respectfully submitted,

Norman Weintraub  
 Chairman,  
 Salary and Benefits Committee

## 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).

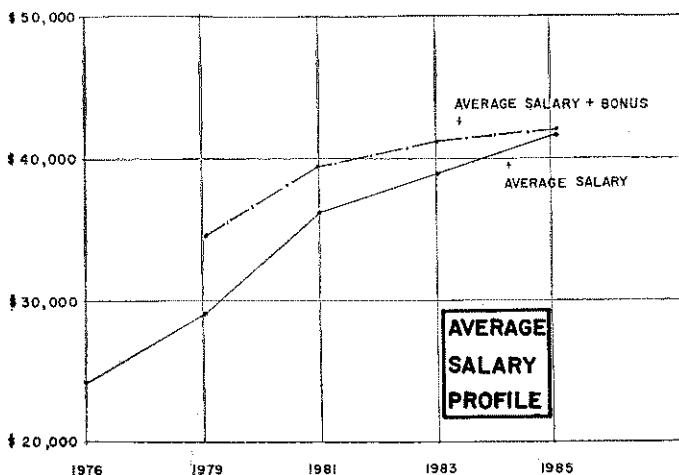
## JEAN FARRELL

With a deep sense of loss, THE NEWS reports that Jean (Mrs. Joseph R., Jr.) Farrell died suddenly, on Aug. 31, 1985.

Jean, a member of the Section's Women's Auxiliary, was well-known and loved by many Phila. Section members and Auxiliary affiliates, and she participated in the Women's Auxiliary and Section functions.

Joseph R. Farrell, Jr., President of Joseph R. Farrell, Inc., Builders, is a Past President (1964-1965) of the Philadelphia Section.

The Section's sincerest sympathies are extended to Joe and the family.



## OCTOBER MEETING

Engineers' Club

October 8, 1985

### The Statue of Liberty Restoration

A gratifying turnout (especially in light of the frustrating tardiness and inefficiency of the Postal Service in delivering the October issue of THE NEWS to the membership) attended the opening meeting of the Philadelphia Section's 1985-1986 season. The topic was: "*Structural Aspects of Reconstructing the Statue of Liberty*". Principal speaker was *Edward Cohen*, Managing Partner, Amman and Whitney, Consulting Engineers. Section President *Ira N. Pierce* capably presided over the first meeting of his incumbency.

### Swarthmore College Night

In keeping with the Section's continuing policy of honoring the ASCE Student Chapters and Civil Engineering Departments of area colleges and universities, the spotlight focused on Swarthmore College. Several C. E. students and alumni attended the meeting. *Stephen de Bruynkops* and *Steven Manwell* reviewed the comprehensive engineering program at Swarthmore, which in large degree is designed to be integrated with the Economics Department and other disciplines in an environment of general areas of education. The program also offers specially Civil Engineering majors in soil mechanics, structures, computer science, environmental and urban engineering, and others.

Messrs. de Bruynkops and Manwell summarized the busy schedule of the ASCE Student Chapter, which includes seminars, field trips, and other technical and social activities.

### The Statue Restoration — A Team Effort

Phila. Section Structural Group Chairman *Stephen H. Golden* introduced our distinguished speaker: *Edward Cohen*. Mr. Cohen has overall charge of his firm's operations; and he supervises many of its most complex projects. He is a witty and articulate speaker, well befitting his impressive background of responsible charge in his involvement in the U. S. Capitol building reinforcement and expansion, Washington, DC; renovation of the Golden Gate and Williamsburg Bridges, the United States Embassy Security improvements in various countries, and many other projects.

The Statue of Liberty National Monument restoration incorporated numerous component organizations working as a team in the very complicated and awesome project. These functions covered foundations, Statue parts, service, and

design consultants, including a group of French engineers, sculptors, fabricators and builders, all under the direction of Amman and Whitney. The target date for completion is July, 1986.

### Comparison of Characteristics

The exterior of the Statue will look fundamentally the same after the scaffolding is removed, but the interior structural framework and support systems will be almost completely remodeled.

With the aid of excellent photographs and slides, Mr. Cohen evolved a fascinating, almost X-ray diagnosis of the complex structural framing of the outwardly delicate and elegant Lady. He compared the original brilliant design and construction methods of 100 years ago by the French engineer Gustave Eiffel and sculptor Frederic Bartholdi — to the entangled network of scaffolding camouflaging a beehive of technology within the 1985 restoration complex. The esoteric design criteria of the original creators were eminently displayed in Mr. Cohen's illustrations and commentary. "... the public sees a Statue of Liberty — a monument," he says, "the engineer sees a stunning ensemble of steel frames, armatures, cantilevered girders and beams ..." — a kaleidoscope of pylons, truncated pyramids, stress patterns and surface skins.

### A Historical Perspective

A very interesting aspect of Mr. Cohen's talk was the historical review of the original structure as it was fabricated and assembled in Paris — compared to the present modification, repair and reinforcement of the colossal structure. The details of the elements of the Statue: arms, torch, head, torso, skirt, anchors, stairways, observation platforms, lighting and an infinity of minor elements — vividly accent the scope and perspective of this unprecedented job of restoring to original strength and stability one of the World's most remarkable and important structures.

### Impressive Statistics

A few staggering quantities and dimensions underline the size and massiveness of the Statue of Liberty. The foundation measures 91 ft. square at the bottom, tapering to 65 ft. square at the top of the 150 ft. high pedestal. At the time of original construction, the pedestal's granite-faced 13,000 cubic yards of concrete supported a copper sheeted skin steel-framed structure 152 ft. high. It was the largest concrete foundation structure of its time. The unorthodox materials mixture of the concrete is difficult to contemplate by

engineers versed in today's concrete technology.

Mr. Cohen's in-depth description of the structural analysis, including wind loads, eccentric flexural stresses; testing techniques; X-ray examinations of connections fatigue, weakness and fracture proportions; paint removal by liquid nitrogen chemistry processes to separate the paint from the copper base by peeling, including blasting with dry bicarbonate of soda and other chemical and electrolytic processes. These procedures employed physical properties and principles such as moduli of elasticity, yield stresses; heat bending and secondary stress relief operations. All of these elements of Mr. Cohen's presentation commanded the audience's close and constant attention. He compared these processes with Eiffel's original design characteristics of the Statue and his famous Tower in Paris.

### Anecdotes About the Original

Mr. Cohen related amusing anecdotes about the idiosyncracies of the original construction in 1852; and how present reinforcement, modification and reconstruction reflect on the historical shortcomings and peculiarities of the original structure. An example was that fresh air used to be forced directly through the core to neutralize the problem of excessive carbon dioxide accumulation manifested by the tremendous tourist traffic at the top observation area of the structure. A much more sophisticated ventilation and exhaust system will now be installed.

### The Symbol of Liberty

A set of slides on the history and symbolism of liberty of the Statue was shown. It featured principal individuals involved in the design, financing, construction and installation in the United States as the gift of France to celebrate the U. S. Centennial. The base pedestal and other components were not installed and dedicated in New York Harbor until October, 1886.

The Statue of Liberty was presented to the United States in 1884 by the Franco-American Union in commemoration of the alliance of France and America during the American Revolution. It was established as a National Monument in 1924, including Ellis Island.

The slides also illustrated details of the major components and structural elements of the Statue now in process of fabrication and installation.

Finally, Mr. Cohen showed a historical film depicting the origin of the concept, design and development of the ambi-

(continued on page 7)

### October Meeting (continued from page 6)

tious project. How appropriate and prophetic were the words of poet John Greenleaf Whittier in tribute to the Statue, which Mr. Cohen quoted: "... It is Liberty enlightening the World ...!"

The Phila. Section is privileged to have been the beneficiary of Mr. Cohen's outstanding presentation. We are grateful, also, to his able assistants who accompanied him from Amman and Whitney and operated the projector and controls. In expressing the Section's praise to our noted guest, President Ira Pierce presented Mr. Cohen the Section's Certificate of Appreciation for his exceptional presentation.

### COMPUTERIZATION/ROBOTICS TECHNOLOGY CONFERENCE

The Engineers' Club of Philadelphia and its Affiliates will sponsor the Delaware Valley Engineering and Technology Conference February 27 through March 1, 1986 at the Valley Forge Convention and Exhibit Center, King of Prussia, Pa.

The Conference will feature exhibits on computerization, hi-tech and robotics and will be structured in a seminar format geared towards various engineering groups. A sampling of the products and/or services expected to be exhibited include:

- \* blueprinting services
- \* data processing equipment
- \* drafting services and equipment
- \* software design

Promotional material will be sent to over 12,000 engineers and technologists throughout the Delaware Valley. This will be supplemented with extensive advertising in trade publications and the local media.

Exhibit space will be on a first come, first served basis. For space reservation or further details, phone Robert Donnell, Productions Group II, 127 Park Road, West Hartford, CT 06119 (1-800-243-9774) or call *The Engineers' Club*, 735-5234.

### 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.

### READING BRANCH

#### 1985 - 1986 Program Schedule

- October 17, 1985 — Berks County Solid Waste; Speaker: Bob Bolton
- November 21, 1985 — Phila. Center City Commuter Connection; Speaker: Hugo Budha
- January 16, 1986 — Schuylkill Greenway Association (Spouse Night); Society Speaker
- February 19, 1986 — PennDOT System or Department of Environmental Resources; Speaker: Larson or Benedictus
- March 20, 1986 — Hydro Barge; Speaker: K. Broome
- April 17, 1986 — PennDOT Bridges and Transportation; Speaker: Dr. Dave Van Horn
- May 15, 1986 — Global Satellite Survey; Speaker: G. Cuppels.

For more information and reservations for Reading Branch meetings, please contact Newsletter Editor *Walt Sawruck* at (215) 775-2600, Ext. 3474; or President *T. Daniel Biss*, Gilbert Associates, Inc., P. O. Box 1498, Reading, PA 19603 — (215) 775-2600, Ext. 2416. Phila. Section Members are cordially invited to attend Reading Branch meetings.

### WASTE MANAGEMENT SEMINAR

on The Metropolitan (New York) Section, ASCE Foundation and Soil Mechanics Technical Group is sponsoring a Seminar on The Geotechnical Aspects of Waste Management. It will be held on December 3-4, 1985 at the *United Engineering Center, 347 E. 47th Street, New York, N. Y.*

Topics to be discussed include: The Waste Problem — An Overview; Site Assessment — Case Histories; Problem Identification; In Situ Treatment/Land Farming; Slurry Walls; Stability of Landfill; Earthwork; Groundwater Monitoring/Dewatering; Leachate Collection Systems; Clay and Synthetic Liners. Prominent teachers and private specialist practitioners in the field will conduct the sessions.

Pre-registration fee is \$90.00, Students—\$40.00

For full information and registration details, contact *Dr. Donald J. Murphy*, Vice President, Langan Engineering Associates, Inc., River Drive Center 2, Elmwood Park, NJ 07407, Phone: (201) 794-6900.

Have You PAID  
Your ASCE DUES?

### ASCE's Minority Programs (COMP)

In paying your 1985 ASCE Dues, members had the opportunity to select several voluntary checkoff contributions in addition to their base ASCE Dues. One of the voluntary checkoffs was a two dollar contribution to ASCE's Committee on Minority Programs (COMP). This program is under the Member Activities Division.

The COMP Committee's charge is to promote Section and national activities that will encourage the education and training of disadvantaged minorities in engineering and related disciplines, foster the employment of such minorities at all levels of skill and training within the engineering field, encourage minority entrepreneurship, and direct the expertise of engineers to the solution of the special social and economic problems faced by such minorities.

In carrying out this comprehensive charge, COMP has developed numerous programs; however, the major thrust of COMP's funding is to provide "seed money" in the support of Summer Institutes to introduce minorities to engineering. These Institutes are distributed geographically across the U. S. in a manner to best serve a representative cross section of this country's minority population. The program has been ongoing for approximately eleven years, with the 1985 program consisting of six institutes and eight planned for 1986.

COMP also has a program designed to provide recognition to outstanding minority participants at regional science fairs. The 1985 program was in place at ten science fairs across the United States. The present time, a "How To" packet is being developed for use by local COMP Committees in carrying out their activities. This will be available soon.

COMP's major long-range goal is to develop an awareness within ASCE that will promote the establishment of an active COMP Committee within every Branch and Section. With these Committees in place, the COMP charge can effectively be achieved.

The Philadelphia Section's National COMP representative is Past President *Lawrence M. Moy*, Philadelphia Dept. of Streets, 820 Municipal Services Bldg. Phila., PA 19107 (215) 686-5498.

LADIES  
Join the Section's Women's Auxiliary!

## 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) 827-2440

## Water and Environmental Engineering

*John E. Tunnell*, Chairman  
Chief, Coastal and Special Studies  
Section; U. S. Army Corps of Engineers, Phila. District  
U. S. Custom House  
2nd and Chestnut Streets  
Philadelphia, PA 19106  
(215) 597-4714

## MEMBERS IN THE NEWS

*Robert S. Hudson*, P.E., has been appointed Vice President of Operations of J. E. Brenneman Co., Phila., Pa. He assumes complete responsibility for overall operations management and planning strategy with the executive officers of the marine contracting firm. A graduate of Drexel University (B. S. in Civil Engineering), Mr. Hudson is earning his Master's Degree in Executive Management and Business Administration at Drexel. He is a member of the Board of Directors of S. T. Hudson International, Consultants and Engineers serving the insurance industry; Hudson International Research Group, Investigative Certified Public Accountants; Hudson Geotech International, Specialists in the Geotechnical and Environmental fields; and T. J. Trauner Associates, Professional Construction Consultants.

## KEEP IT SIMPLE

### Editor's Note:

Through the many years of his affiliation with the Philadelphia Section, ASCE, your Editor has valued his association with Section Past President, *James W. McPhillips* as rewarding and educational. Mr. McPhillips' judicious advice, counsel, and gratuitous assistance have sustained him through an infinity of difficulties in maintaining the steady flow of the Section's publications.

The following excerpt, published recently in the Wall Street Journal, succinctly reflects Jim's journalistic philosophy, and he has passed it on to your Editor. We print it herewith for the Membership's judgment and enjoyment.

Strike three.  
Get your hand off my knee.  
You're overdrawn.  
Your horse won.  
Yes.  
No.  
You have the account.  
Walk.  
Don't walk.  
Mother's dead.  
Basic events  
require simple language.

## WOMEN'S AUXILIARY

### November Joint Meeting

The next regular Luncheon-Meeting of the Section's Women's Auxiliary will be a Combined Meeting with the Auxiliaries' members and guests of A.S.M.E. and P.S.P.E. on *Thursday, November 21, 1985, 12:00 noon* at the Engineers' Club. A.S.M.E. Auxiliary will host the meeting.

Principal speaker will be *Mr. Dennis Sadler*, of Collector's Corner Antiques, Downingtown, Pa. The title of Mr. Sadler's talk is: "*A Day of Antiquity.*" Mr. Sadler will appraise antique items bought in by members of the audience.

Wives of Philadelphia Section members are cordially invited to join the Women's Auxiliary, to attend all luncheon-meetings and other functions arranged and sponsored by the Auxiliary, and to bring guests. For full particulars about joining the organization, please call Membership Secretary *Marie (Mrs. Kenneth J.) Zitomer* at (215) 548-5324.

## 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.

Idiosyncratically euphuistic eccentricities are the promulgators of triturable obfuscation. What did you have for breakfast this morning? The upper part of a hog's hind leg with two oval bodies encased in a shell laid by a female bird or ham and eggs? David Belasco, the great American theatrical producer, once said, "If you can't write your idea on the back of my calling card, you don't have a clear idea."