

the news



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PHILADELPHIA SECTION
AMERICAN SOCIETY OF CIVIL ENGINEERS

1317 Spruce Street, Philadelphia, PA 19107

Vol. 62-1

76 Years of Excellence

OCTOBER, 1989

OCTOBER DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

TUESDAY, OCTOBER 10, 1989

ENGINEERS' CLUB, 1317 Spruce Street, Philadelphia

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

SUBJECT: THE FUTURE OF SUPERFUND

SPEAKER: THOMAS C. VOLTAGGIO, Director, Superfund Office, Hazardous Waste Management Division, U.S. Environmental Protection Agency, Philadelphia, PA

After 8 years, the responsible party community has accepted the fact that Superfund is here to stay. This has resulted in a great increase in the amount of responsible party involvement in Superfund cleanups. As more responsible party cleanups proceed, a momentum is being established which is resulting in ever-increasing reliance on enforcement and diminishing roles for EPA funded cleanups. This will result in interesting new opportunities and difficulties in the implementation of the Superfund program.

Thomas C. Voltaggio was born in Queens, New York and received his Bachelor's Degree in Chemical Engineering in 1968 from the City College of New York. He was employed by Stauffer Chemical Company from 1968-71 as the Plant Engineer at their Houston, Texas and Fort Worth, Texas

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NOVEMBER JOINT DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

South Jersey Branch, New Jersey Section, American Society of Civil Engineers

TUESDAY, NOVEMBER 14, 1989

LOCATION: HARBOR LEAGUE CLUB, 800 Hudson Square, Camden, NJ

Cocktails - 5:30 P.M. Dinner - 6:30 P.M. Meeting - 7:15 P.M.

SUBJECT: To Be Announced

SPEAKER: A Senior National ASCE official.

This meeting celebrates the 15th Anniversary of the South Jersey branch.

SPECIAL FEATURES: UNIVERSITY OF PENNSYLVANIA AND
SWARTHMORE COLLEGE NIGHT

FOR RESERVATIONS, FOR ALL PHILADELPHIA SECTION REGULAR MONTHLY MEETINGS - WHETHER HELD AT THE ENGINEERS' CLUB OR ELSEWHERE AS NOTED IN THE MEETING ANNOUNCEMENTS - PLEASE CALL PRESIDENT WEGGEL'S SECRETARY, MARGIE, AT (215) 895-2364.

DINNER MEAL CHARGES:

OCTOBER 10, 1989 MEETING AT ENGINEERS' CLUB - ASCE Member & Guests - \$20.00; Students - \$10.00. (These charges will apply to all dinner Meetings at the Engineers' Club).

NOVEMBER 14, 1989 MEETING AT HARBOR LEAGUE CLUB, Camden, NJ - ASCE Members & Guests - \$25.00; Students - \$12.50

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

TECHNICAL GROUP ACTIVITIES

Construction Group

October Meeting

Date: Thursday, October 19, 1989

Spring Garden College - 7:00 PM

Details to be announced at the October 10th Section Meeting.

Geotechnical and

Water/Environmental Group

(Combined Program for 1989-1990)

October Meeting

Date: Tuesday, October 17, 1989 - 7:00 PM

Living Arts Lounge, Creese Student Center, Drexel University, Chestnut Street between 32nd and 33rd

SUBJECT: LONG-TERM PERFORMANCE RELIABILITY OF GEOSYNTHETICS IN WASTE CONTAINMENTS

SPEAKER: Dr. Robert M. Koerner, Bowman Professor of Civil Engineering Geosynthetics Research Institute, Drexel University

Geosynthetics (geomembranes, geotextiles, etc.) are increasingly being used in containments at solid waste landfills. Advantages of using these materials rather than natural soil materials include better quality control, ease of installation, savings in volumes, chemical compatibility, etc. These factors have led to regulations that not only require use of geosynthetics, but their employment in specific configurations, such as multiple liner-leachate collection systems. The first part of the presentation will include a brief review of the evolution of current practice and an overview of the state-of-the-art.

However, there are serious concerns with geosynthetics and other materials used in waste isolation with respect to chemical compatibility, biological and solid clogging, durability, and other long-term performance issues. The presentation will also include a discussion of ongoing work in these areas to better predict in-situ per-

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THE PRESIDENT'S MESSAGE

A few years ago ASCE adopted the slogan "Civil Engineering, A People Serving Profession." I always thought that they should have gone one step further and added "ASCE, A Profession-Serving Society." ASCE exists to serve the profession and its members and I hope that as we move into our 76th year, the Philadelphia Section can continue its long tradition of service to the profession. As ASCE members we also have a responsibility, a responsibility to serve the public and the civil engineering profession through service to ASCE.

If there is one theme on which I would like to focus this year's ASCE activities, it is on the development of an active membership. This includes bringing new members into ASCE and into the Philadelphia Section, but perhaps more important, it means encouraging our present members to become more active. There are many opportunities to participate in ASCE activities. All members are invited to attend and participate in our monthly Board of Directors meetings. Board meetings precede the monthly section meeting and usually start at 4:00 pm at the Engineer's Club. For those members interested in technical activities, there are the monthly meetings of our Technical Groups: Structural, Geotechnical, Construction, Water & Environmental, Transportation and Engineering Management. Unlike many other ASCE Sections, we are particularly fortunate to have strong Technical Groups — perhaps it is because of the concentration of our members in the Philadelphia area — but it is most certainly due to the interests of our members and their willingness to work to develop interesting programs. If you are interested in technical activities, I urge you to contact the Technical Group Chairmen (They are listed elsewhere in the NEWS) to volunteer your help. Let them know what kind of programs you want. Suggest speakers. Get involved!

I've asked **Ron Mersky** of Widener University to chair a Committee comprised of ASCE Student Chapter Advisors and Contact Members. Their charge will be to advise the Section on how we can better serve our Student Members and how we can encourage them to become active ASCE members following graduation. If you have suggestions, please contact Ron at (215) 499-1146.

The Board of Directors is also wrestling with the problem of how to encourage minority students to pursue careers in engineering and science. Your suggestions on how to do this are solicited. Please convey your ideas to me or to one of the other Board members — or better yet, bring them to one of our meetings.

This year we'll continue to hold Joint Meetings with other Professional Societies with which we share common interests. Our November meeting will be with the Southern New Jersey Branch of ASCE (they will be celebrating their 15th Anniversary); our January meeting will be held with ASHE and our April meeting with SAME. In addition, we hope to hold our December meeting jointly with the Historic Preservation Committee of AIA and with APT (Association of Preservation Technology).

I'm looking forward to working with our Members and Officers to make this another successful year for the Philadelphia Section. If you have suggestions regarding the operation of the Section or how the Section can better serve its members or the Civil Engineering profession, please give me a call at (215) 895-2355.

See you on October 10th!

Sincerely,
Rich Weggel, President
Philadelphia Section, ASCE

October Dinner Meeting

(Continued from Page 1)

sulfuric acid plants. In 1971, he received a Masters Degree in Management Science from Texas Christian University in Fort Worth. Tom joined the U.S. EPA in July of 1971, in the Dallas, Texas regional office as an engineer in the NPDES permit program. In 1973, he joined the Chicago regional office as the head of NPDES compliance and then as the Chief of the Engineering Section dealing with air pollution enforcement. In 1977, he relocated to the Philadelphia office as the Chief of Air Enforcement Branch. From 1980 to 1984 he supervised the Hazardous Waste Enforcement effort in Region III. In 1982, he also became responsible for the implementation of the Superfund Remedial Program. In 1984 he became responsible for Superfund response activities including emergency and remedial response. In 1989, he became responsible for the entire Superfund Program, including all enforcement activities. He is married with three (3) children and resides in Cherry Hill, New Jersey.

SPECIAL FEATURE: SPRING GARDEN COLLEGE AND TEMPLE UNIVERSITY NIGHT

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

IMPORTANT: DINNER RESERVATIONS FOR SECTION MEETINGS ARE ESSENTIAL.
PLEASE PHONE IN YOUR RESERVATION AS DIRECTED AT BOTTOM OF PAGE ONE.

HELP!

Staff Writers Needed

THE NEWS seeks alert, aspiring writers to assist the Editor on special assignments and articles for the Philadelphia Section monthly publication.

If you have the writing flair and are interested, please contact **Sid Robin**, Chairman of Publications, 64 Nancy Drive, Richboro, PA 18954.

Phone: (215) 322-7464

PHILADELPHIA SECTION AMERICAN SOCIETY OF CIVIL ENGINEERS OFFICERS 1989-1990

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Dept. of Civil &

Architectural Engineering

32nd & Chestnut Streets

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FOR

NOVEMBER 1989

ISSUE

OCTOBER 10, 1989

ASCE, PSPE AND PACE JOINT MEETING FEATURES GAMBACCINI

The Phila. Section, ASCE and Phila. Chapter, Pennsylvania Society of Professional Engineers will join the Professional Advisory Council on Energy (PACE) at a special Luncheon Meeting on **Thursday, November 9, 1989**. **Louis J. Gambaccini**, Chief Operations Officer/General Manager, Southeastern Pennsylvania Transportation Authority (SEPTA) will speak on "SEPTA - Where We Are Headed: Rebuilding the System - Linking Public Transportation and Environmental and Energy Policy - Building a Coalition of Support." He will speak at noon at the **Union League**, 140 South Broad Street, Philadelphia.

Mr. Gambaccini will describe what has taken place at SEPTA since his recent appointment as General Manager. His action program for SEPTA in the upcoming decade will be reviewed. Before assuming his present position at SEPTA on August 29, 1988, Mr. Gambaccini served as President of the Institute of Public Administration, a New York policy-research center. His professional background also includes various positions held at The Port Authority of New York and New Jersey - Assistant Executive Director/Trans-Hudson Transportation, Assistant Executive Director/Director of Administration, and Vice President and General Manager of the Port Authority Trans-Hudson Corporation, to name a few. He also served as New Jersey's Commissioner of Transportation and the Chairman of the New Jersey Transit Corporation.

Members and guests are welcome. \$18. Please make checks payable to PACE. For reservations contact: **Noble T. McHugh, P.E.**, 2301 Market Street (S13-1), Phila., PA 19101; phone (215) 841-4105 or 841-4106.

Awards

(Continued from Page 4)

Nancy Leonard and Olga Tantala were honored for their assistance in the labeling, distribution and mailing of The News.

Bethann Taylor, Secretary to outgoing President Susan K. Lior, was cited for her efforts in assisting in the Section meeting arrangements and reservations.

The Awards Committee is commended for the professional and inspiring ceremony which was enjoyed by all. Hours of long work on the parts of **John Durrant**, and **Robert Wright**, with assistance by Past President Susan Lior, resulted in a successful ceremony.

*The determination to think for one's self
is a person's distinction.*

*Life is so pitifully short that not one
second should be misused.*

SYMPOSIUM PAPERS INVITED

The Baltimore-Washington-Harrisburg Section of the Association of Engineering Geologists and the Maryland and District of Columbia Sections of the American Society of Civil Engineers are inviting papers for their 1990 joint symposium:

Geotechnology and the Environment

Issues of the 90's

April 19 and 20, 1990

Sheraton International Hotel

BWI Airport, Baltimore, Maryland

The symposium sessions topics are:

Underground Storage Tanks

Tidal and Non-tidal Wetlands

Environmental Site Assessments

Regional Environmental Concerns

Please submit a one page abstract prior to **November 1, 1989** to:

Schnable Engineering Associates

1600 North Calvert Street

Baltimore, MD 21202

Attn: Mr. David Kozera

DURRANT IS OFFICIAL NOMINEE FOR DISTRICT DIRECTOR

All Philadelphia Section members are urged to return your ballots to ASCE National Headquarters in New York with their vote marked for Section Past President **John E. Durrant** for National ASCE Director, District 4, term October, 1989 to October, 1992.

John, who is Chief, Materials Testing Laboratory, Philadelphia Water Department, was named City Employee of the Month for June, 1987. He holds both Bachelor's and Master's Degrees in Civil Engineering from Villanova University. In addition to the Presidency of the Philadelphia Section (1984-85) during his long and active participation, John has served as President of the Associate (Younger) Member Forum, and chaired the Section's Student Chapter Committee from 1979 to 1982, and he is currently Chairman of the Awards Committee. At the District 4 level, he is a member of the District Council Committee on Legislative Affairs and was Vice Chairman of the Council during 1985-86.

Mr. Durrant is a recipient of National ASCE's **Edmund Friedman Young Engineer Award for Professional Achievement**. In addition to ASCE, he is a member of the American Water Works Association.

INVITE YOUR
ASSOCIATES TO
ALL ASCE MEETINGS!

Technical Group Activities

(Continued from Page 1)

formance and improve reliability.

Due to favorable reception from the increased and more widely distributed participation from last year, the Geotechnical and Environmental/Water Resources groups will continue their combined program in 1989-90. The focus will continue to be on innovative technologies that are of direct value to practitioners in each Technical Group, as well as project presentations of general interest.

Ray Lees of ERM Inc. is the new Environmental/Water Resources Group Chairman, and will be assisted by last year's Chairman, **Dave Ritter** of PSC Environmental Services. **Dr. Joseph Martin** of Drexel is the Geotechnical Group chairman, and other committee members include **Vince Murphy** of B&V Science/Technology and **Frank Gontowski** of Duffield Associates.

We are in the process of a massive expansion and update of the mailing list. To receive direct notices of the meetings, please send your name and address to your group of choice:

Geotechnical

Dr. J. P. Martin

Dept. of Civil & Arch. Engrg.

Drexel University

Philadelphia, PA 19104

215-895-2363

Environmental/Water Resources

Mr. Raymond A. Lees

ERM, Inc.

855 Springdale Dr.

Exton, PA 19341

215-524-3500

Engineering Management Group Re-Forming

The Engineering Management Group of the Phila. Section welcomes members who would like to participate in this broad-based Group. Please contact Group Chairman **Edward F. Koehler** at (215) 557-1603 during working hours or see Ed at the October 10th Section Meeting.

Charles E. Roller, Jr.

(Continued from Page 7)

without the attendance and participation of Charles Roller and his charming wife, Claire. Claire Roller was President of the Section's Women's Auxiliary during its last two years of existence as a formal Section affiliate.

In addition to his beloved wife Claire, Charles is survived by their three sons: Charles E. III ("Chick"), Paul and Richard Roller and their families. The Philadelphia Section, ASCE extends its heartfelt sympathy to Claire and the entire Roller family. We will all sorely miss our dear friend. But we will remember him always as the inestimably fine man he was.

SECTION'S 1989 AWARDS PRESENTED AT SPRING SOCIAL

By Robert M. Wright, Secretary

The Philadelphia Section's annual Civil Engineering Awards were presented during the Gala Spring Dinner Dance at Colleen's Restaurant and Towne Hall on Saturday, June 3. The theme of the ceremony was "75 Years of Excellence" to commemorate the Diamond Jubilee of the Philadelphia Section, and a short retrospective slide and sound presentation was presented before the dinner to look back on the first seventy-five years of the Section.

Nine eminent local engineers were honored for their contributions, service and leadership in the civil engineering profession in the Delaware Valley.

Civil Engineer of the Year

Albert M. Tantala, President and owner of Tantala Associates, and Past President of the Philadelphia Section, was honored with the Section's highest award. He has been involved with his firm for twenty-three years. The company specializes in the design and inspection of structural steel and foundation systems, soil testing, design of stormwater and sanitary sewer facilities, and preparation of erosion and sedimentation control schemes.

Mr. Tantala is a graduate of the University of Pennsylvania where he received a Bachelor of Science degree in Civil Engineering in 1960. He has been a devoted member of the Philadelphia Section and has served on numerous committees and Board positions. He has risen through the officer ranks as Secretary, Second Vice President and First Vice President and boards of various other professional, civic and community associations.

Government Engineer of the Year

The Government Engineer of the Year was **Roland Hall**, former Chief of the Construction Section of the City of Philadelphia Department of Licenses and Inspections, and current Eastern Regional Engineer for the Building Officials and Code Administration (BOCA).

In the Department of Licenses and Inspections, Mr. Hall served as manager of the division directly responsible for interpretation of and conformance to the City's Building Code, including Fire, Zoning, Housing, Plumbing and Electrical standards. He is a 1967 graduate of Drexel University, where he received a Bachelor of Science degree in Civil Engineering. He worked as a Structural Engineer for the Bridge Section of the City's Department of Streets prior to working in the Department of Licenses and Inspections.

Transportation Engineer of the Year

Elmore J. Boles, President of Boles Smyth Associates and Vice President of the Delta Group, was the recipient of the Transportation Engineer of the Year award.

Mr. Boles has handled numerous projects which blend the elements of transportation and highway engineering with landscaping and aesthetic treatments to create unique solutions for demanding situations. In addition to local projects such as the rehabilitation of historic Elfret's Alley, the Delaware Expressway cover in Old City, the Vine Street Expressway, the revitalization of East Market Street, and the Mid-County

Expressway, he has played significant roles in major undertakings in Baltimore Reading and Stamford, Connecticut. His firms have also participated in various non-transportation related projects which required the combined efforts of engineers and architects.

Mr. Boles received his Bachelor of Science degree in Civil Engineering from Drexel University in 1955 and returned shortly thereafter to acquire his Masters degree. He has instructed various courses in civil engineering and related fields at both Drexel and the University of Pennsylvania. He has served the Philadelphia Section as a Director and as Chairman of the Student Chapter Committee and the Urban Planning and Transportation Technical Group.

Water Resources Engineer of the Year

The Water Resources Engineer of the Year award was presented to **Dr. G. Lee Christensen**, of Villanova University. He is a Professor in the University's Department of Civil Engineering. He has been involved in research in the aspects of sludge processing, disinfection of sludge, and theories on sludge dewatering. He has published numerous articles and papers on sludge processing and disposal. His work in the field of environmental engineering has earned him ASCE's Rudolf Hering Medal for the best environmental research in 1986.

Dr. Christensen has enhanced the Environmental Engineering branch of Villanova's civil engineering program through his development of several courses on both graduate and undergraduate levels. He received his Bachelor degree in Civil Engineering from Villanova in 1960, and continued his studies at Johns Hopkins University, where he earned both his Master and Doctorate level degrees.

Dr. Christensen has been invited to the University of Aalborg, Denmark as a visiting professor in environmental engineering for the 1989-90 academic year.

Engineering Manager of the Year

Klaus Fuelleborn has been honored as the Engineering Manager of the Year. He is a Vice President at Pennoni Associates, Inc. As such, he is in direct charge of that firm's Bucks County office which is located in Quakertown. His specialty lies in the design of stormwater and sanitary sewer systems and stormwater management facilities. He has directed numerous projects of this type, in addition to landfills, dams, spillways, and pumping stations.

Mr. Fuelleborn received his Bachelor's degree in Civil Engineering from Drexel Institute in 1964. He has been an active member of the Philadelphia Section and presently holds the Chairman position of the Section's Audit Committee.

Structural Engineer of the Year

James D. Leasure was honored as the Structural Engineer of the Year. He recently retired from the City of Philadelphia, where he held the post of Chief Bridge Engineer in the Department of Streets for four years. He worked in the Department's Bridge Section for 24 years as a Designer, Project Engineer, and Design Manager prior to being appointed Section Chief. Among the numerous bridges designed and constructed by the City during his tenure were six that were recognized as prize winners by the American Institute of Steel Construction.

Mr. Leasure received a Bachelor of Science

degree in Civil Engineering from Drexel University in 1958 and a subsequent Masters degree from the University of Illinois. He has been continually involved in the Philadelphia Section and has served as a past Director and Chairman of the Awards Committee. His wife, Ann, was a former member and officer of the Section's Women's Auxiliary. Mr. Leasure is currently employed at Urban Engineers as a Project Manager in that firm's bridge division.

Geotechnical Engineer of the Year

The recipient of the Geotechnical Engineer of the Year award was **Cetin A. Okcuoglu**, Founder, President and Chief Engineer of Geotech, Inc. His company provides a full range of Consulting Geotechnical Engineering services. As President, he is directly responsible for the firm's technical quality on all assignments. Among the projects handled by his firm over the past decade are the majority of the high-rise hotel, casino and condominium buildings in Atlantic City and many of the new office structures in downtown Wilmington, Delaware.

Mr. Okcuoglu is a graduate of Robert College in Istanbul, Turkey, where he received his Bachelor of Science degree in Civil Engineering in 1964. He subsequently earned his Masters degree from the Technical University of Nova Scotia. He is a member of several Technical Societies and has served the Philadelphia Section as a past Chairman of the Geotechnical Group.

Construction Engineer of the Year

The Construction Engineer of the Year award was presented to **Wallace Rutecki**, President of the Rockport Construction Company.

Mr. Rutecki has been involved with several firms since college graduation which handled major construction projects on both the Schuylkill and Delaware Expressways. From 1985 through 1988 he was the Construction Engineer for the Cornell-Hagerty-Koch Joint Venture Project to redeck the Benjamin Franklin Bridge.

Mr. Rutecki is a 1957 graduate of Villanova University where he received a Bachelor's degree in Civil Engineering. He has been a Past President of the Delaware Valley Section of the American Society of Highway Engineers in addition to being long active in ASCE Section activities.

Educator of the Year

Dr. Charles Bartholomew was honored as the Section's Educator of the Year. He is the Chairman of the Department of Civil Engineering at Widener University, a position he has held for the past two years. He teaches courses in Geotechnical and Transportation Engineering at both the graduate and undergraduate levels. He is also actively involved in research in the use of incinerator ash as an ingredient in concrete blocks and in the application of polystyrene foam for highway construction purposes.

Dr. Bartholomew received his Bachelor of Science degree in Civil Engineering from the University of Kansas in 1959. He subsequently acquired both his Master and Doctorate level degrees from the University of Illinois. Prior to joining the Widener faculty, he worked for two State Highway Departments and a consulting firm and also founded his own firm.

Special Awards

The Section presented three Certificates of Appreciation for dedicated service to the Philadelphia Section:

(Continued on Page 3)

**AMERICAN SOCIETY OF CIVIL ENGINEERS
PHILADELPHIA SECTION
1989 SALARY AND BENEFITS SURVEY**

Editor's Note: The Philadelphia Section's gratitude and high praise are extended to Past President Norman G. Weintraub, who as Employment Conditions Committee Chairman prepared the Salary and Benefits Survey Questionnaire mailed to the Membership with the April-May 1989 issue of THE NEWS. Mr. Weintraub also prepared the following report on the results.

This report is the eighth 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, the sixth in the Summer of 1985 and the seventh in the Summer of 1987. It is expected that the reports will continue to be made semi-annually, with the next questionnaire included with the April, 1991 Newsletter.

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

The results of the eighth bi-annual ASCE, Philadelphia Section Salary and Benefits Survey are in. Our typical member is a 38-year-old white male and has worked for 15 years. He has taken courses beyond a Bachelor's Degree, and is a Registered, Professional Engineer. He is salaried, working for a consulting firm doing primarily technical work while supervising five subordinates. This is his third job and he has worked for his current employer 8 years. He earns \$50,000 per year plus a bonus of \$2,500 and does not get paid for overtime hours. His benefits include 9 days vacation, 10 holidays, 3 days sick leave. Hospitalization, Major Medical and Dental are at least partially company paid. He does not have a paid optical plan and he contributes to his company disability and pension plans.

As far as trends, our average member is older since the last survey in 1987, as well as having a higher membership grade, more years of employment and more years with the current employer. Salaries are up a very healthy 13.6%. There were 182 responses this year as compares to 220 in the 1987 survey.

SECTION A - PERSONAL DATA

	SURVEY DATES			
	1989	1987	1985	1983
1. Age - Average	40.5	39.2	40.2	39.3
- Minimum	21	22	20	20
- Maximum	99	97	76	82
- Median	38	35	37	36
2. Years of Full Time Employment				
- Average	17.5	16.2	17.6	16.3
- Minimum	0	0	0	1
- Maximum	55	80	55	56
- Median	15	13	15	13
3. Race (Percent)				
Caucasian	94	97	95	
Negro	0	0	1	
Hispanic	2	1	1	
Asiatic	3	2	2	
Other	1	1	1	
4. Sex (Percent)				
Male	93	92	92	
Female	7	8	8	
5. Education (Percent)				
No Degree	2	2	2	2
BS	35	46	37	37
BS plus 15 hours	20	18	15	19
Master's Degree	39	30	40	35
Doctorate Degree	4	4	6	7
6. ASCE Membership Grade (Percent)				
Student	4	3		
Associates	28	36	33	37

Member	62	55	60	55
Fellow	4667			
Life	2	0	1	1
7. Registration (Percent)				
E.I.T.	45	55	55	54
P.E.	71	64	75	71
L.S.	7	8	12	14
8. Membership in Other Professional/Technical Organizations				
- Average	1.2	1.6	1.8	1.2
- Maximum	7	6	9	6

SECTION B - EMPLOYMENT DATA

	SURVEY DATES			
	1989	1987	1985	1983
1. Income Source (Percent)				
Self-Employed	7	4	3	5
Salaried	90	95	94	93
Commissioned	0	1	1	1
Retired	1	1	2	2
Unemployed	0	0		
Student	2	0		
2. Type Employer or Self Employed (Percent)				
Consultant	53	51	53	47
Contractor/Builder	9	9	7	8
Federal Government	8	7	6	7
State Government	3	3	2	2
Municipal, Local or Regional Government or Authority	10	12	12	12.5
Utility (Public & Private)	6	4	6	5.5
Manufacturer	5	5	5	8
Education	3	3	3	3
Sales	0	0	1	1
Other	3	6	5	6
3. Primary Responsibility (Percent)				
Technical	45	53	49	51
Sales	1	2	2	2
Supervisory	28	25	20	18
Administrative	17	17	19	21
Other	9	3	10	8
4. Supervision (No. of employees)				
Average	19.0	17.7	15.5	
Maximum	999	750	360	
Median	5	3	5	
5. Number of Different Employers				
Since Graduation	3	2	2.7	2.8
6. Second Job (Percent)				
None	95	93	93	
Salaried	1	3	4	
Self-Employed	3	9	2	
Other	1	4	1	
7. Years with Current Employer	9.8	9.3	9.2	9.3
Minimum	1	0	1	1
Maximum	45	43	44	36
Median	8	6	6	7

SECTION C - SALARY AND BENEFITS

	SURVEY DATES			
	1989	1987	1985	1983
1. Salary - Average	54,300	48,999	41,700	38,800
Maximum	175,000	470,000	80,000	99,000
Median	50,000	44,000	40,000	37,000
2. Bonus/Commission				
Percent Receiving	56	37	38	
Average	4,148	2,220	407	2,400
Maximum	9,999	9,000	7,500	9,000
3. Overtime Renumeration (Percent)				
None	55	48	54	47
Time	14	20	12	19
Straight Pay	24	22	23	24
Time & A Half	7	10	10	9
Double Time	0	0	1	1
4. Vacation (Including Administrative Leave, Personal Days, etc.)				
Average Days Off	8.7	9.2	15.8	16.2
Median Days Off	9	9	15	15
5. Holidays	10	10	9	9
6. Company-Paid Sick Leave (Days)				
Average	31.6	31.7	17.7	20.9
Median	3	3	10	12
Minimum	0	0	0	0
Maximum	100	100	Unlim.	Unlim.
7. a) Hospitalization Insurance (Percent)				
All	53	55	51	54
Part	43	42	46	44
None	4	3	3	2
b) Major Medical (Percent)				
All	52	51	49	51
Part	43	44	47	46
None	5	5	4	3
c) Dental Plan (Percent)				
All	24	22	18	17
Part	41	36	31	43
None	35	42	51	40
d) Optical Plan (Percent)				
All	15	9	9	7
Part	23	22	21	17
None	72	69	70	76
7. e) Disability Insurance (Percent)				
All	37	32	35	33
Part	32	39	40	38
None	31	29	25	29
f) Life (Percent)				
All	14	45		
Part	43	42		
None	43	13		
8. Pension Plan (Percent)				
Yes	77	73	73	70
100% Comp Paid	29	23	34	31
Employee Contribution	71	77	66	69
No	23	27	27	30
9. Profit Sharing (Percent)				
Yes	30	36	35	39
No	40	40	49	61

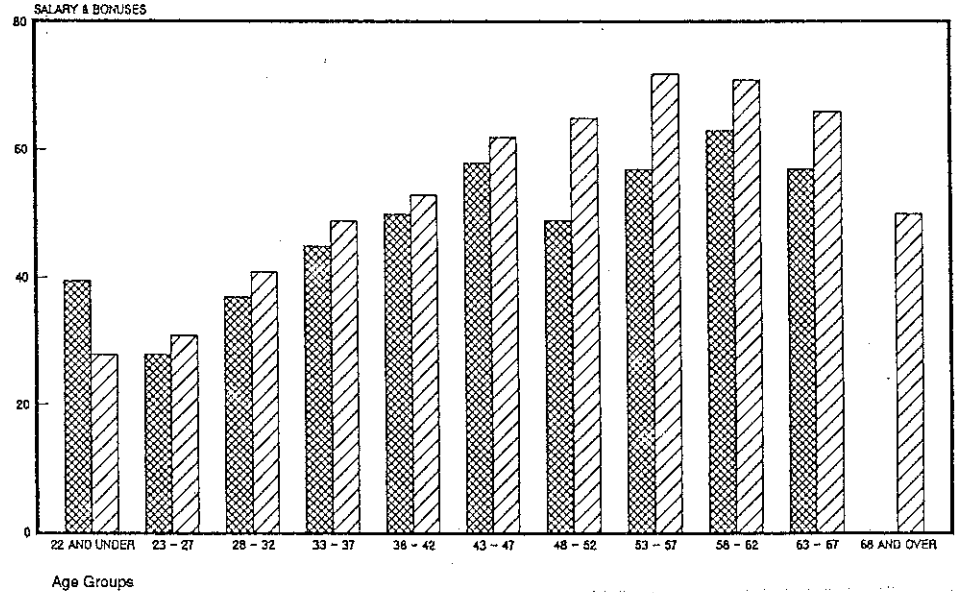
Not applicable	30	24	16	
10. Formal Severance Pay (Percent)				
Yes	27	27	29	35
No	73	73	71	65
11. Tuition Reimbursement (Percent)				
None	29	24	25	26
Partial	24	23	24	28
100%	47	53	51	46

SECTION D - OPINIONS (PERCENTAGES)

	SURVEY DATES			
	1989	1987	1985	1983
1. Are you satisfied with your current employment situation?				
Unsatisfied	6	4	5	2
Somewhat satisfied	18	21	22	23
Satisfied	20	26	20	25
Mostly Satisfied	34	36	33	34
Very satisfied	22	13	20	16
2. Do you believe that, in your current employment situation, you are performing true engineering work?				
Yes	55	50	50	55
No; administration, supervisory, business, promotion, etc.	37	41	40	37
No; primarily technician/draftsman	1	4	3	4
No; other functions	7	5	7	4
3. Do you believe that your work is properly reviewed?				
Yes	32	34	41	
Yes, but could be better	39	42	35	
No	17	17	16	
Not applicable	12	7	8	
4. Do you think you will be looking for a new job within the next 2 years?				
Salary	12	13	1	
Problems with boss	4	6	4	
Lack of responsibility	3	6	6	
Other	15	31	23	
Not looking	66	44	66	
5. Critical Job Concerns				
Pay and benefits	27	23	25	
Company reputation	7	7	6	
Responsibility	25	20	30	
Security	5	5	5	
Location	8	9	4	
Type of Work	23	26	25	
Other	5	10	5	
6. Ease of Finding New Job				
Very easy	28	22	13	
Easy	47	42	45	
Somewhat difficult	21	29	36	
Difficult	4	7	6	
7. Do you believe your salary, considering your experience and ability, compared to other Civil Engineers, is:				
Much lower	3	2	3	4
Lower	19	26	21	25
Similar	46	42	50	52

(Continued on Page 7)

ASCE SALARY SURVEY 1987/1989 COMPARISON



Higher	27	26	24	17
Much Higher	5	4	2	2
8. Do you believe your fringe benefits, compared to other Civil Engineers, are:				
Much Lower	5	6	3	2
Lower	17	19	10	17
Similar	45	41	48	45
Higher	25	29	27	30
Much Higher	8	5	3	6
9. Is your professional physical environment (office, appearance, privacy, secretarial support, etc.) important to you?				
Yes	92	77		
No	8	23		
10. Are you satisfied with your professional physical environment?				
Yes	70	71		
No	30	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	38	36	37	37
Disagree	62	64	63	63
b) Continuing Education should be required to maintain registration.				
Agree	51	49	49	49
Disagree	49	64	51	51
c) Consulting work may be competitively bid when the requirements are reasonably well defined.				
Agree	66	67	62	64
Disagree	34	33	38	36
d) Advertising, by engineers, that is not-self-laudatory is acceptable.				
Agree	86	91	92	85
Disagree	14	9	8	15

CHARLES E. ROLLER, JR.

By Sid Robin, Editor



With deep sadness, THE NEWS reports the death, on June 10, 1989, of **Charles E. Roller, Jr.**, Philadelphia Section, ASCE Past Director and one of its most loyal and dedicated Active Members for many decades. Charles' passing is particularly painful to your editor, who was a close personal friend and professional associate. The two worked together at times on cooperative building projects during Mr. Roller's tenure for more than 30 years as Vice President in charge of construction at Arthur A. Kober Construction Company, Bala Cynwyd, PA.

A native Philadelphian, Charles Roller graduated from the University of Pennsylvania in 1937 with a B.S. in Civil Engineering. Immediately after graduation he became an ASCE member and began his career in construction. Prior to United States actual involvement in World War II he was employed by the Fourth Naval District, working on construction of airfields, barracks and service buildings in preparation for any possible contingency. He served in the U.S. Army from 1942 to 1945 in the North African and Italian Theatres, directing the construction of troop facilities.

After honorable discharge from the Army, Charles continued his career in building construction as Vice President of the development, engineering and construction firm of Arthur A. Kober Co. Among the many major outstanding projects in which he directed the construction are: the 40 story Academy House and 1500 Locust Street Apartment buildings, Penn Center Inn, 2400 Chestnut Street, and other midrise buildings, commercial and industrial projects.

In addition to his past tenure as a Director of the Philadelphia Section, ASCE, "Charlie" — as he was affectionately known to the scores of his ASCE friends and associates — served for several years as its delegate to the Engineering and Technical Societies Council (ETSCO). Rarely did a Philadelphia Section professional meeting or social function take place

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

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

(Continued on Page 3)

ASCE DUES BILL AND TECHNICAL GROUP DETAILS

Section members will notice in the 1989 dues bill from National ASCE Headquarters, that the PHILADELPHIA (SECTION) DUES is itemized as \$13.00. This amount includes assessment for membership in one Phila. Section Technical Group of your choice. *If you choose to be a member of more than one group, please add \$1.00 for each group.*

Also, because National's bill did not list the Technical groups to which your \$1.00 payments were to be applied, *you are requested to get in touch with the Chairman of the Technical Groups of your preference*, so that their membership lists can be classified.

The appropriate individuals to contact are the following:

Liaison

Moustafa A. Gouda
Lippincott Engineering Associates
1 Pavilion Place
Riverside, NJ 08075
(609) 461-1239

Younger Member Forum

Chairman position available. If interested, please contact *Moustafa Gouda* (See "Liaison" above).

Construction

Fredric L. Plotnick, Chairman
Engineering & Property Mgt. Consultants
806 Hilton Lane
Elkins Park, PA 19117
(215) 885-3733

Structural

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

Transportation & Urban Development

C. L. Rood
SEPTA Planning & Construction
714 Market Street, 4th Floor
Philadelphia, PA 19106
(215) 574-8493

Engineering Management

Edward F. Koehler, Chairman
416 Longfellow Avenue
Wyncote, PA 19095
(215) 557-1603

Geotechnical

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

Water & Environmental Engineering

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

1990 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 & gain national attention.

• Papers must be written on "Is the ASCE Code of Ethics Obsolete in Today's Society?"

RULES

• 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.
• Paper 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 zonal winners, will receive a wall plaque and a certificate.

• Winners may be invited to present their papers at the ASCE Annual Convention, San Francisco, November, 1990.

• The paper by the national winner will be submitted for publication in CIVIL ENGINEERING.

* By February 1, 1990, seven copies of each paper must be submitted through the Section Secretary, *Robert M. Wright*, (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 Ward
1977 - *Joseph R. Syrnick*, Zone I Award
1978 - *David S. Shaw*, Zone I Award
1979 - *Haym Bernaroya*, Zone I Award
1983 - *Greg Neiderer*, Zone III Award

BRIDGE FOR SALE

With bridge collapses regularly grabbing the news, there is half serious talk about reviving the idea of returning roads and bridges to private enterprise. Until the late 19th century, private funds financed most roads and bridges. Tolls from roads, bridges and ferries created many of our early men of wealth.

And, it's been noted, of the few road and bridge projects finished on time and

1990 EDMUND FRIEDMAN YOUNG ENGINEER AWARD

To recognize professional contributions of younger members of the Society, Edmund Friedman, Past President ASCE, contributed funds to establish the Edmund Friedman Young Engineer Award for Professional Achievement. The award was officially instituted by action of the Board of Direction in October 1972.

This recognition is awarded annually to members of the American Society of Civil Engineers who are 32 years of age or less on February 1 in the year of the award, and who are judged to have attained significant professional achievement, by the degree to which the candidates have shown:

a) Service to the advancement of the profession;

b) Evidence of technical competence, high character and integrity;

c) Leadership in the development of younger member attitudes towards the profession;

d) Contributions to public service outside of their professional career;

e) Other evidence of merit, which has advanced the Society's objectives.

RULES

• The award may be made each year to as many as five recipients. No recipient may receive the award more than once.

• An individual or group, may submit written nominations forms which are available from ASCE at the address below.

• A nominee not selected one year may be renominated in a subsequent year, provided he/she is eligible under the above stipulations. Meritorious nominees, not selected in a given year may be held over for consideration in the competition of the following year.

• Deceased persons are not eligible for nomination for the award, although an award can be made posthumously to a nominee whose petition had reached the award committee during his/her lifetime.

• The award shall consist of a framed certificate inscribed with the name of the recipient and his/her exceptional achievements, to be presented at a National Convention.

• By February 1, 1990, seven copies of the nomination should be submitted to: ASCE Awards Department, 345 East 47th Street, New York, NY 10017-2398.

A previous Philadelphia Section winner of this award is *John E. Durrant*, our candidate for District 4 Director, 1989-1992. Philadelphia Section members are urged to consider and submit nominees as directed herein above.

under budget, most were privately planned, funded and built. A few roads and bridges still survive and generate revenue for their owners, but most are access ways to private entertainment facilities.