

# the news



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PHILADELPHIA SECTION  
**AMERICAN SOCIETY OF CIVIL ENGINEERS**  
1317 Spruce Street, Philadelphia, Pa. 19107

VOL. 54 - 3

OUR 69th YEAR

December, 1981

## Holiday Greetings

On behalf of the Officers and Board of Directors of the Philadelphia Section, ASCE, the Editor and staff of THE NEWS extend to the Members and their families Best Wishes for a Healthy and Happy Holiday Season, and a fruitful and fulfilling New Year.

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### DECEMBER LUNCHEON MEETING

Philadelphia Section, American Society of Civil Engineers

**WEDNESDAY, DECEMBER 9, 1981**

Engineers' Club, 1317 Spruce Street, Philadelphia

Lunch — 12:00 Noon

Meeting — 12:30 P.M.

#### SUBJECT:

**"THE FEDERAL BUDGET:  
ITS EFFECTS ON THE BUSINESS OF ENGINEERING"**

#### SPEAKER:

**MS. ROBIN RABORN, Office of Public Affairs of the Executive Office of the President, Office of Management and Budget, Washington, DC**

The Federal budget is the subject of much concern, criticism and controversy, as it so significantly affects the personal lives and the collective business operations of all of us. At this time, the "OMB", the President's Office of Management and Budget, is at the center of an all out effort to balance the budget. With interest rates as they are, that office pushed for such economic measures as cuts in government, military and civil spending, reductions in Social Security benefits and a scaling back of the proposed tax cut.

Ms. Raborn is an Assistant to the Director of Public Affairs of OMB, and holds a Bachelors Degree from Vanderbilt University, Knoxville, Tennessee and a Masters Degree in Business Administration from the American Graduate School of International Management, Arizona. Prior to coming to OMB, Ms. Raborn was Marketing Brands Manager for New Business Development at the Colgate Palmolive Company in New York City.

#### SPECIAL FEATURE:

##### TEMPLE UNIVERSITY DAY

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

No Lunch Reservation Mailing Cards will be sent. Please call Mr. deKovacs at the Engineers' Club immediately. (215) 735-5234.

STUDENTS — Plan to attend for Lunch (Half Price) or meeting after Lunch.

### NEXT MONTH'S MEETING

#### MARK YOUR CALENDAR

Joint Dinner Meeting  
with Women's Auxilliary

Date: Tuesday, January 12, 1982  
Engineers' Club

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

See details on page 2

Drexel University Night

### TECHNICAL GROUP ACTIVITIES

#### Geotechnical

Date: Tuesday, December 15, 1981  
Engineers' Club — 7:00 p.m.

Subject: Design of Hazardous Waste  
Disposal Facilities

Speaker: Dr. R. Schoenberger, Vice  
President, Weston Environmental Con-  
sultants/Designers, West Chester, PA

Program Host: Dr. Ziyad I. Husami,  
Chairman Geotechnical Group

Refreshments are served

This discussion is the third in a series of lectures sponsored by the Geotechnical Group on the broad subject of the Geotechnics of Waste Management, between October, 1981 and April, 1982. The lectures highlight the role of the geotechnical disciplines in waste management projects.

—O—

#### Hydraulics and Sanitary

Date: Wednesday, December 16, 1981

Luncheon 12:30 — Engineers' Club

Meeting 1:00 p.m., Ending 1:30 p.m.

Subject:

Groundwater in the Delaware Valley

Speaker: Page Fielding, Delaware River  
Basin Commission

(continued on page 2)

## IMPORTANT!! 1981 - 1982 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 1981 - 1982 Section Meeting Program Schedule and mark your calendar for all meetings and social functions. Listed below is a summary of remaining meeting dates.

**Tuesday, January 12, 1982** — Section Dinner Meeting, Engineers' Club

Subject: "Hazardous Waste Management"

Speaker: **Gary R. Galida**, PennDER, Harrisburg, PA

Arranged by Hydraulics and Sanitary Group

Drexel University Night

Joint Meeting with The Women's Auxiliary

**Tuesday, February 9, 1982** — Section Dinner Meeting, Engineers' Club

Subject: "Computers and the Civil Engineer"

Speaker: **James Tobin**, Sperry Univac Corp., Blue Bell, PA

Arranged by Structural Group

Swarthmore College, University of Delaware, and Princeton

University Night

**Tuesday, March 9, 1982** — Section Dinner Meeting, Engineers' Club

Subject: "Interstate Success Story" (Baltimore Urban Development)

Speaker: **William Hellman**, Chief, Interstate Division of Baltimore City

Arranged by Transportation and Urban Development Group

University of Pennsylvania Night

**Tuesday, April 13, 1982** — Joint Dinner Meeting with Philadelphia Post,

Society of American Military Engineers (SAME), Engineers' Club

Subject: "Construction of Trident Submarine Base, Puget Sound"

Speaker: **Capt. William G. Connor**, USN, Officer in Charge

Widener College and Spring Garden College Night

**Saturday, May 1, 1982** — Annual Spring Social

Engineers' Club, Philadelphia, PA

## TED DAVIS HONORED

A special award was made at the Phila. Section November 10, 1981 meeting, honoring **Theodore Davis**, who retired last Spring after more than twenty years of faithful service as Section Treasurer.

Past President Joseph R. Synchron presented a bound citation to Ted ".... in recognition of his outstanding fiscal judgment and faithful, sound and commendable management of the Phila. Section funds through the years ...." A gift certificate accompanied the citation.

The citation also bestowed the honorary title of **Treasurer Emeritus** on Ted, and this title will appear permanently on the list of Phila. Section officers in all publications. Ted Davis holds the rank of Fellow in ASCE, and has been an Active Member for over thirty years.

The felicitations of the entire Phila. Section Membership are extended to Ted for his years of devoted service to the organization. We extend also our fondest wishes for a happy and reward-

ing retirement to Ted and his wife, Eleanor (a Women's Auxiliary member since its founding), and expect that both will remain fully active in Phila. Section affairs.

## ASCE CITES SECTION MEMBERS

Awards of Commendation by the National ASCE Board of Direction were presented to two Phila. Section members at the November 10, 1981 Dinner Meeting. They were:

**Dr. Kay H. Jones** - 1980 - 1981 Chairman of the National ASCE Environmental Division; and

**Ira N. Pierce** - 1980 - 1981 Chairman of the National ASCE Urban Development and Transportation Division.

The citations are in recognition of the outstanding achievements of these important Technical Divisions under the expert leadership of the two distinguished men. President Fred Roll presented the awards to Dr. Jones and Mr. Pierce, with the congratulations of the Section.

## ASCE PRESIDENTIAL AWARD TO SECTION

National ASCE President **Irvan F. Mendenhall** has awarded the **ASCE Presidential Citation** to the Philadelphia Section, in appreciation of the Section's involvement with the ASCE Student Chapters and all Younger Member activities.

The citation was announced and presented at the November 10, 1981 Section meeting by National ASCE Director, District 4, **Chuck Pennoni**, Past President of the Section.

## TECHNICAL GROUP ACTIVITIES

(continued from page 1)

Program Host: **Dana R. Pizzaro**, Chairman, Hydraulics and Sanitary

Mr. Fielding's discussion will emphasize the occurrence of groundwater, current problems, and the present and future management of this resource. R.S. V.P. for luncheon to **Darlene McKinney** (215) 563-3460 by **December 14, 1981**.

## PHILA. SECTION, ASCE OFFICERS 1981 - 1982

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**COPY DEADLINE FOR  
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DECEMBER, 9, 1981**

**AMERICAN SOCIETY OF CIVIL ENGINEERS**

**Philadelphia Section**

**1981 SALARY SURVEY**

This report is the fourth survey of the Philadelphia Section of the American Society of Civil Engineers. The first report was prepared in March, 1972 and the second in the Spring of 1976, and the third in the Fall of 1979. It is expected that the reports will be biannual, with the next questionnaire included with the April, 1983 Newsletter.

The response this year was almost 10% greater than for the prior survey, with 229 questionnaires returned.

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

**Section A - Personal Data**

	1981	1979	1976	1972
1. Age — Average .....	39.8	38.9	39	40.8
2. Years of Full Time Employment — Average .....	16.7	16		
3. Education (Percent)				
No Degree .....	2	1		
BS .....	36	34	50.7	60
BS + 15 hours .....	21	23		
Master's Degree .....	33	33	45.8	32.8
Doctorate Degree .....	7	9	3.5	3.8
4. ASCE Membership Grade (Percent)				
Associate .....	33	34	42.8	37.9
Member .....	60	60	46.2	47.4
Fellow .....	5	5	9.7	13.7
Life .....	2	1	1.3	1.0
5. Registration (Percent)				
E.I.T. ....	55	17	18	11.3
P.E.				
—1 State .....	37			
—2 States .....	15			
—3 States .....	5			
—Over 3 States .....	17			
— .....	74	74	73	72
L. S. ....	13	6	3	—
6. Membership in Other Professional/Technical Organizations				
—Average .....	1.3			
—Maximum .....	9			

**Section B - Employment Data**

1. Income Source (Percent)				
Self Employed .....	20			
Salaried .....	75			
Commissioned .....	4			
Retired .....	1			
2. Type Employment or Self-Employed (Percent)				
Consultant .....	47	39	49.2	39.4
Contractor/Builder .....	5	9	8.5	7.5
Federal Government .....	13	9	8.5	9.3
State Government .....	10	0	2.1	14.1
Municipal Local or Regional Government or Authority .....	7.5	15	9.8	8.7
Utility (Public or Private) .....	6	11	—	—
Manufacturer .....	6	8	—	—

	1981	1979	1976	1972
Education .....	2	3	8.5	13.5
Sales .....	.5	4	—	—
Other .....	0	1	—	—
3. Primary Responsibility (Percent)				
Technical .....	36	49	—	—
Sales .....	16	1	—	—
Supervisory .....	36	24	—	—
Administrative .....	12	25	—	—
Other .....	0	1	—	—
4. Number of Different Employers since Graduation ...	2.8	2.9	—	—
Years with Current Employer (Av.) .....	8.8	8.8	—	—

**Section C - Benefits**

1. Salary—Average (\$k's) .....	36.5	28.7	24.4	18.1
—Maximum (\$k's) .....	99.0	65.0	64.0	—
—Minimum (\$k's) .....	18.0	12.0	11.2	—
2. Bonus/Commission				
—Percent .....		25	33	—
—Average (\$k's) .....	2.6	5.7		—
—Maximum (\$k's) .....	76.0	44.0	20.0	—
—Minimum (\$) .....		100	25	—
3. Vacation (including Administrative Leave, Personal Days, etc.)				
10 days or less .....		30	45	49
11 to 15 days .....		39	28	28
16 to 20 days .....		18	27	23
21 plus days .....		13	27	23
Average Days Off .....	16.5	15.1	14.5	13.5
4. Holidays .....	9.5	9	9.3	9.1
5. Company-Paid Sick Leave (Days)				
—Average .....	25			
—Minimum .....	6			
—Maximum .....	unlimited			
6. Hospitalization Insurance (Percent)				
YES All .....	61			
Part .....	35	96	93	85
NO .....	4	4	7	15
7. Life Insurance (Percent)				
YES All .....	36			
Part .....	34	88	93	—
NO .....	30	12	7	—
8. Major Medical (Percent)				
ALL .....	39			
PART .....	33			
NONE .....	28			
9. Dental Plan (Percent)				
ALL .....	18			
PART .....	23			
NONE .....	59			
10. Optical Plan (Percent)				
ALL .....	12			
PART .....	23			
NONE .....	65			
11. Disability Insurance (Percent)				
YES All .....	39			
Part .....	38	68	41	—
NO .....	23	32	59	—

	1981	1979	1976	1972
12. Pension Plan (Percent)				
YES .....	67	81	83.6	—
—100% Comp. Paid .....	17	44	—	—
—Emp. Contribution .....	83	37	—	—
NO .....	33	19	16.4	—
13. Profit Sharing (Percent)				
YES .....	73	33	—	—
NO .....	27	37	—	—
14. Formal Severance Pay				
YES .....	53	37	44	31.5
NO .....	47	63	56	68.5
15. Tuition Reimbursement				
90-100 percent .....	56	62	28.5	—
50-90 percent .....	13	12	25.7	—
None .....	31	26	45.8	—

**Section D - Opinions**

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

	In Percent	
Much Lower .....	17	3
Lower .....	57	25
Similar .....	16	50
Higher .....	8	19
Much Higher .....	2	3

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

	In Percent	
Much Lower .....	7	3
Lower .....	39	17
Similar .....	31	38
Higher .....	20	37
Much Higher .....	3	5

3. To improve any of the following would you consider joining a labor union or employees' association?

	UNION		ASSOCIATION	
	Yes	No	Yes	No
Salary .....	14	86	28	72
Benefits .....	13	87	26	74
Security .....	10	90	27	73
Working Conditions .....	15	85	33	67

4. Do you agree or disagree with the following statements:

	Agree		Disagree	
	1981	1979	1981	1979
a. Registration should be required for all engineers as a condition of continued employment 40		35	60	65
b. Continuing education should be required to maintain registration ..53		50	47	50
c. Consulting work may be competitively bid when the requirements are reasonably well defined 58		56	42	44

**Discussion**

The results of Sections A and B, Personal and Employment Data, are reasonably clear and show no major differ-

ences from prior years. The average annual salary has increased over 27% from the 1979 survey which is about equal to the compounded inflation rate but based on reports from colleges and universities, is less than the increase in starting salaries for graduate engineers over the same period (closer to 35%).

The results for fringe benefits are difficult, if not impossible to interpret. With variables, such as years with employer, quality of plans, exclusions, percent paid by employer, duration of coverage, etc., the survey is not large enough to provide a meaningful breakdown, particularly since based on the answers of this and the previous survey, the number of respondents who don't know what their benefits are, is shocking.

A special thanks is due to Mike Pense of the Philadelphia Water Department's Planning & Technical Services for handling the entire computerized data analysis.

**Comments**

Twenty-six questionnaires were returned with comments, most concerning the opinion questions. My favorite asked what was the difference between a union and an association relative to the third question. We all get caught up with emotionally laden words like union and forget to clearly define our terms.

**Other Comments:**

"Civil Engineers should not fall into the educators trap on requiring continuing education as a requirement for maintaining registration. In most cases educators have not been required to possess practical experience in either employment or work experience."

"I have difficulty finding time for continuing education because of time commitments at my present position."

"Under its present system registration does not reflect one's engineering abilities. Experience and continuing education would probably be more relevant."

"Registration should be required for promotion above a certain level. Employers who promote engineers to that minimum level should provide time and expenses for engineers to maintain his registration."

"P.E. (license) is not for everybody."

"If engineers are joining unions, it's because professional organizations don't represent their needs."

"The public is not aware that perfection is not available and unjustly criticizes the engineering profession which tends to be cloistered and uncommunicative."

"Continuing education should be paid by the employer."

"Consulting work should be competitively bid, otherwise, it will stay as political as it is now . . ."

"Competitive bidding only after prequalification of bidders."

"Practical experience is often more valuable and desirable than continuing education."

"(I) would like to see ASCE get involved in flexible pension plan which could be kept even if employees change companies."

"Promote ASCE involvement in liability problems."

## SUGGESTIONS REQUESTED FOR 1983 SURVEY

**Editor's Note:** The Phila. Section is indebted to **Norman G. Weintraub** who - as a Committee of One - prepared the 1981 Salary and Benefits Survey Questionnaire, which was sent out with the April, 1981 issue of THE NEWS. The Section extends its highest compliments to Norman for his comprehensive, splendid report on the Survey, which succeeds those in 1972, 1976 and 1979.

In response to suggestions I expect to include the following questions in the 1983 survey:

- Is your work truly engineering work?
  - .....YES
  - .....No, primarily administrative, supervisory, business promotion, etc.
  - .....No, primarily technician/draftsman
  - .....No, for other reasons
- Are you satisfied with your current position?
  - .....Unsatisfied
  - .....Somewhat unsatisfied
  - .....Satisfied
  - .....Mostly Satisfied
  - .....Very Satisfied
- Are you ..... Salaried, ..... Hourly?
- Overtime Remuneration?
  - .....NONE
  - .....Time
  - .....At regular salary rate
  - .....Time-and-a-half
  - .....Double Time
- On the average, how many hours per week do you work?.....
- Do you have any form of Flex-time?
  - .....YES
  - .....NO
  - If yes, ..... core hour (5 8-hr. days, starting & stopping time variable)
    - .....core week (4 10-hr. days, days off variable)
    - .....variable week (9 hr. days, 4 day alternate with 5 day week)
    - .....Other
- Would you like to have a form of Flex-time?
  - .....YES
  - .....NO
  - If yes, ..... core hour (5 8-hr. days, starting & stopping time variable)
    - .....core week (4 10-hr. days, days off variable)
    - .....variable week (9 hr. days, 4 day alternate with 5 day week)
    - .....Other
- Do you agree or disagree with the following statement:
 

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

AGREE..... DISAGREE.....

Questions about specialties tend to have so many categories that on a survey of this size, the number of responses

in any category are not meaningful. This is clear on the current question of type employment; the maximum response other than for consultants was 30, which spread over a twenty to thirty year age range does not give meaningful or reliable information.

Correlations of salary responsibility level, location, etc. are similarly a problem in defining the factors, or, in using the Federal GS grades trying to figure out which level applies.

Questions on "perks" are somewhat different. Some, like company paid Society memberships, subscriptions, matching charitable donations, etc. are definable but typically amount to relatively small amounts. Others, like company cars are difficult to define—some have cars with no strings attached (taxable), some pay partially for personal use of a car, while others have extremely strict company policy against *any* personal use of the company car.

If anyone has solutions to these problems or is willing to help with the next survey, please give me a call at 561-5100, ext. 27-254.

Respectfully submitted,

Norman G. Weintraub

## NOVEMBER MEETING

### Techniques in Construction Management

**Editor's Note:** THE NEWS thanks Phila. Section Program Committee Chairman **Charlene O'Connor**, for her splendid assistance (despite a severely injured right arm) in the preparation of the following review. Miss O'Connor introduced the Principal Speaker at the November 10 meeting.

A satisfying number of Phila. Section members and guests, including representatives of the ASCE Student Chapter, Faculty and Alumni of the Civil Engineering Department of **Villanova University**, attended the Section's first formal Dinner - Meeting of the 1981 - 1982 season on **Tuesday, November 10, 1981** at the Engineers' Club, with Section President **Dr. Frederic Roll** presiding. (The inaugural meeting of the year, on October 13, 1981, was a Luncheon in the field and afternoon walking tour of the **Center City Commuter Rail Connection**. See the November, 1981 issue of THE NEWS for writeup of that meeting).

Principal Speaker was **John Ball**, President, R. M. Shoemaker Co. Mr. Ball's subject was "Techniques in Construction Management," a field in which his firm is a pioneer and recognized leader.

### Villanova Night

In keeping with the Phila. Section's policy of honoring the Civil Engineering Departments and ASCE Student Chapters of area colleges and universities, the spotlight shone on **Villanova University**. Student Chapter Faculty Advisor **Dr. Lewis J. Mathers** once again performed in his witty, charming style as "Moderator" for the Villanova contingent - in spite of his previously announced protestations to College of Engineering Officials that he wished to "retire" from the task. The response of all concerned - including Dean of the College of Engineering, **Dr. Robert Lynch**, was ". . . . No spika de English - you go on! ! . . . ."

Dr. Mathers introduced the Villanova Student Chapter Contact Members: **Joan Durrant** (Phila. Section Student Chapter Committee Chairman and Section Director), and **Mark Zimpelman**; faculty members and alumni in attendance.

Civil Engineering Department Head, **Dr. Edward Wallo** thanked the Section for its courtesies to Villanova, expressed Dr. Lynch's greetings - and regrets of his inability to attend the meeting because of the immediacy of current conferences on campus of the College of Engineering annual accreditation examinations. Both Dr. Wallo and Dr. Lynch are long-time distinguished and active members of the Phila. Section, ASCE.

Preeminent in his comments about what's going on in Civil Engineering at the University was Dr. Wallo's explanation of the National Science Foundation - funded through C.A.U.S.E. (Comprehensive Aid for Undergraduate Science and Engineering) - with matching funds from the University - computer software program in curricula, design and development courses and related subjects in the College of Engineering. The software project coordinates with the acquisition of hardware to implement the C.A.U.S.E. program. Dr. Wallo also described the phasing in of parallel curricula classifications in engineering - a program now in its final year of design and projection.

ASCE Student Chapter President **John Del Ferro** reviewed the activities of the Villanova Chapter, including: significant meetings, with speakers on diverse subjects such as prestressed concrete design and construction; the drought and its Civil Engineering implications; career opportunities for civil engineers in Sales Engineering; discussions of the various technical branch specialties, etc. He also analyzed and dissected various athletic

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### NOVEMBER MEETING (continued from page 5)

competitions, gloating uninhibitedly about the Villanova Chapter's victories over the Drexel Chapter in various sports events.

Mr. Del Ferro presented his current staff of officers of the Villanova Student Chapter: Vice President **Maureen Keenan**; Treasurer **Nancy Sinnott**; and Secretary **Janine Tobin**. All graciously acknowledged the greetings of the audience.

#### The Construction Management Concept

Mr. Ball addressed the trend in the construction industry toward negotiated management contracts versus the previously predominant competitively bid contracts. It seems that owners are assured more control over the final cost of their project when a price sensitive manager is chosen early in the life of a project. This manager could steer the design team into a direction such that the owner's functional requirements are met without overtaxing his purse strings. Contractors, as pointed out by Mr. Ball, are in the best position to advise owners of anticipated costs and accept cost responsibility because of their financial strength as well as their vast experience in bidding for work and coordinating construction estimates. The R. M. Shoemaker Co. is a prime example of a contractor turned construction manager. Currently, almost all projects undertaken by the Shoemaker Co. are of the negotiated management type.

Mr. Ball discussed the characteristics of an owner who exhibits the need for a construction manager. These characteristics include the desire for a guaranteed maximum price early in the life of the project, the lack of in-house staff capable of accurately assessing cost, and the need to complete the project on time. The characteristics of an owner suited to the bidding contractor relationship, such as an abundant supply of time and money, construction budgeting and building expertise were also discussed.

#### Question and Answer Period

In an extended question and answer discussion following Mr. Ball's formal presentation, the members of the audience made in-depth comments and inquiries into the construction management contract concept for public and private construction. Mr. Ball's patience and forbearance were amply tested by the persistent questioning of the attendees. He proved to be a durable - as well as extremely knowledgeable speaker.

Much of the dialogue was of significant interest to students.

Mr. Ball is to be commended for his great knowledge and splendid presentation of this complex subject.

Section President Roll presented Mr. Ball the Section's Certificate of Appreciation and a copy of the 1976 Bicentennial ASCE Annual ASCE Convention Commemorative Book published by the Phila. Section: "The History of Civil Engineering and Construction in the Delaware Valley."

### THE DEPMAN'S HOST FALL SOCIAL

The 1981 Fall Social of the Philadelphia Section, ASCE was hosted to an overflowing, enthusiastic crowd at the lovely Jenkintown home of **Mr. and Mrs. Frank Depman**, on Sunday, November 1, 1981. Frank is a Section Director, and Mrs. Depman (**Ruth**) is Vice President of the Women's Auxiliary. The Auxiliary sponsored and arranged the affair, in its continuing policy - started in 1976 - of "at home" Fall Social parties. Proceeds of the function are deposited into the Auxiliary's **Annette Estrada Memorial Scholarship Fund**, which was established to assist outstanding civil engineering students in area colleges.

Our gracious hosts were ably assisted by their children, who helped make everyone comfortable and welcome. Son **Stan Depman** was especially brilliant as bartender. His adeptness at the craft might well have inspired an overpowering urge to pursue this work as a career, thus jeopardizing his scheduled graduation from Jefferson Medical College next Spring!

Cocktails, delightful hors d'oeuvres and other tasty delicacies, prepared and contributed by the Women's Auxiliary members, were enjoyed by all. Section members paid modest ticket fees to cover costs and to enhance the Memorial Fund.

The entire ambiance of the party - accentuated by the spectacular view of the coloring Fall foliage in the Depman's rear and side gardens - was cordial and warm. Just as were all of its predecessors, the affair was a glowing success, both socially and financially. Frank and Ruth's preparation and arrangements of facilities were precise and thorough. The Section's highest gratitude is extended to them and their children - and to all the wonderful Auxiliary members who prepared and contributed the delicious food - for making the 1981 Fall Social an "affair to remember."

### WOMEN'S AUXILIARY

#### Christmas Party

The next monthly Luncheon - Meeting of the Women's Auxiliary, Phila. Section, ASCE, will be held at the Engineers' Club on **Wednesday, December 16, 1981, 12:00 noon**. It is the Annual Christmas Party, and will be Chaired by **Annette (Mrs. Chuck) Pennoni**. As is the custom, business discussion will be at an absolute minimum!

Entertainment will be provided by the Valley Forge Chapter of "The Sweet Adelines." Pollyannas will be exchanged and the Holiday spirit will prevail. All Auxiliary members and their guests are cordially invited to attend.

There will be no Women's Auxiliary Luncheon-Meeting in January or February, 1982. The Auxiliary will join the Main Section, however, at the **Tuesday, January 12, 1982 regular Section Dinner-Meeting at the Engineers' Club**.

Details of the Joint January Meeting will appear in THE NEWS.

### TECHNICAL GROUP CHAIRMEN

#### Technical Group Liaison

**William M. Malarkey**

(Section Vice President)

Urban Engineers, Inc.  
19th Street & Delancey Place  
Phila., PA 19103  
(215) 546-3222

#### Construction/Structural Group

**James Robinson**, Chairman

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#### Geotechnical Group

**Dr. Ziyad I. Husami**, Chairman

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#### Hydraulics & Sanitary Group

**Dana Pizarro**, Chairman

O'Brien & Gere Engineers  
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Phila., PA 19103  
(215) 564-4282

#### Transportation & Urban Development Group

Chairman information will appear here next month.