

# the news



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**PHILADELPHIA SECTION  
AMERICAN SOCIETY OF CIVIL ENGINEERS**  
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Electronic Message Hotline: 1-800-461-4190 (24 hours a day)  
Web site: <http://www.asce-philly.org>  
National ASCE Central Number 1-800-548-ASCE • Toll Free

Vol. 74-7

## Our 88th Year

April/May 2002

### APRIL JOINT DINNER MEETING

Philadelphia Section, American Society of Civil Engineers  
Philadelphia Chapter of Pennsylvania Society of Professional Engineers (PSPE)

### THURSDAY, APRIL 18, 2002

WILLIAMSON'S • GSB Building • City Line Avenue • Philadelphia, PA • See Location Map Below  
Cocktails – 5:30 p.m. • Dinner – 6:30 p.m. • Meeting – 7:30 p.m.

**SUBJECT:** The Children's Hospital of Philadelphia Expansion Project  
**SPEAKER:** Mr. Anthony J. Kelly, P.E., R.A.

**SPECIAL FEATURE: PAST PRESIDENTS' NIGHT.** The Philadelphia Section, ASCE will honor our Section's Past Presidents at this meeting.

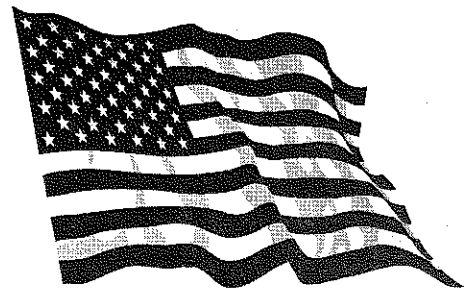
**SPECIAL FEATURE: WIDENER UNIVERSITY NIGHT.** The ASCE Student Chapter, Alumni and Faculty of the Civil Engineering Department of Widener University will be honored at this meeting. All Students, Faculty and Alumni are cordially invited.

**RESERVATIONS MUST BE SUBMITTED BY FRIDAY, APRIL 12, 2002.** Please send your check for the number of attendees @ \$30.00 per member or guest, \$15.00 per ASCE Student Members, payable to the Phila. Section, ASCE, P.O. Box 58186, Phila., PA 19102-8186; or call the Electronic Message Center: 1-800-461-4190 (Open 24 hours/day) or e-mail the Section at [info@asce-philly.org](mailto:info@asce-philly.org).

The Children's Hospital of Philadelphia (CHOP) is in the midst of a major expansion project. Mr. Anthony Kelly, P.E., R.A., Director, Facilities Services and Construction Management for the Children's Hospital of Philadelphia, will give us an overview of the project highlighting its many challenges.

Mr. Anthony J. Kelly, Director, is responsible for all the day-to-day operations of the Department to support the operation, modernization and growth of the Hospital. His scope of responsibilities includes New Construction/Renovations, Project Management, Plant Operations, and Maintenance. The scope of responsibility of the position includes all CHOP facilities, including its down-

(Continued on Page 2)



## God Bless America!

### TECHNICAL GROUP ACTIVITIES

#### Structures Group

**April Luncheon Meeting**  
**DATE:** Tuesday, April 16, 2002  
**TIME:** 12 Noon to 1:20 PM  
**COST:** \$12; Students \$6

**LOCATION:** Conference Room at STV Inc., 1818 Market St., Suite 1410, Philadelphia, PA 19103

**SUBJECT: Thermal Control Techniques, Materials and Criteria for the Design of Energy Efficient Concrete Buildings**



Dr. Gajanan M. Sabnis, Ph.D., P.E.

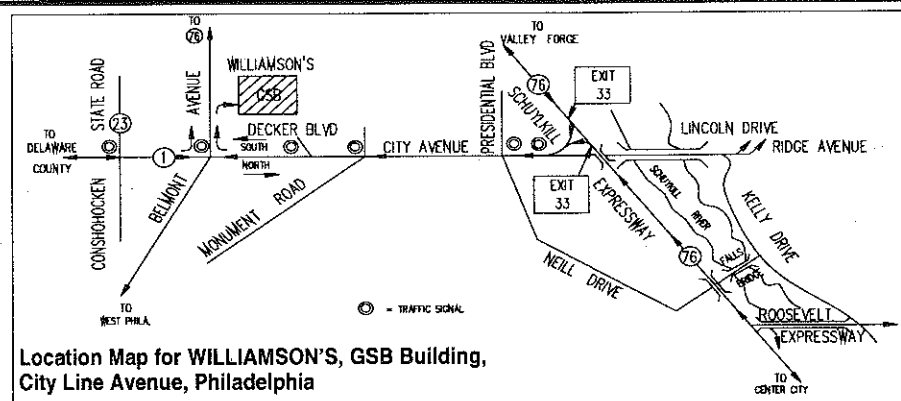
**SPEAKER: Dr. Gajanan M. Sabnis, Ph.D., P.E.,** Professor of Civil Engineering, Howard University and Consultant, has been active in ASCE as International Director during 1995-1998.

Dr. Sabnis will present various aspects of this important project, its economic and cultural

impacts in Philadelphia area, the technical work that has been completed, issues that were overcome and the next steps in energy saving aspects in building design. A systems approach was used to integrate the hybrid materials instead of the typical wood and steel construction used today. Insulated forms for concrete, geothermal energy and recycled cotton insulation were used to provide maintenance-free, energy-efficient homes for the severe climate states in the U.S.

A prototype house built by him was selected for

(Continued on Page 2)



Location Map for WILLIAMSON'S, GSB Building, City Line Avenue, Philadelphia

The Annual Spring Dinner Dance and Awards Presentation • See Page 2

CIVIL ENGINEERS — BUILDING A BETTER WORLD FOR 150 YEARS

**Social Reservation Form***The Big Event of the Year!**Phila. Section ASCE  
Annual Spring Social Dinner  
Dance & Awards Presentation***Special Feature — Commemoration of ASCE's 150th Anniversary  
and the Philadelphia Section's Own 89th Anniversary  
"Civil Engineers — Building A Better World for 150 Years"***Friday May 3 2002**Radisson Hotel Philadelphia Northeast*  
*Formal or Traditional Attire**6:00 pm Cocktails & Hors d'Oeuvres (Cash Bar)**7:00 pm Dinner • \$35.00 per person**Music for your listening &  
dancing pleasure til Midnight*For reservations and more information, call the **Electronic Message Hotline at  
(800) 461-4190 (24 hours a day)** or visit the web site at <http://www.asce-philly.org>

For Reservations, Please Complete This Form and Return

Name/Company Reservation is to be held under: \_\_\_\_\_

Address \_\_\_\_\_

Phone: \_\_\_\_\_

Please reserve \_\_\_\_\_ seats @ \$35.00 per person, (\$40.00 per person, if check is received after April 26, 2002 or at the door) Total Amount: \$ \_\_\_\_\_

Tables(s) of ten can be reserved for your party or company.

Make checks payable to "Phila. Section ASCE Spring Social 2002"  
Mail check & reservation to: Phila. Section, ASCE  
P.O. Box 58186 • Philadelphia, PA 19102-8186

Indicate appropriate number and choice of dinner menu:

\_\_\_\_\_ Prime Rib \_\_\_\_\_ Salmon/Chicken \_\_\_\_\_ Vegetarian

CIVIL ENGINEERS — BUILDING A BETTER WORLD FOR 150 YEARS

**Technical Group Activities***(Continued from Page 1)*

an Award of Excellence by the American Concrete Institute for its creative and innovative use of concrete in buildings.

A buffet lunch will be served, starting at 12 Noon, with the presentation beginning at 12:20 PM.

**Reservations are required and seating is limited to 40.** Please contact Ali Khan, Chairman, Structures Group, at (609) 530-9618.

Please send your check for \$12 to the Phila. Section, ASCE, PO Box 58186, Philadelphia, PA 19102-8186; or call the Electronic Message Center: 1-800-461-4190 (open 24 hours/day).

*(Continued on Page 3)***April Joint Dinner Meeting***(Continued from Page 1)*

town campus, two offsite primary care facilities, six-offsite specialty care centers and 30 physician practice sites.

**SECTION WEB SITE!**Our Section's web site has taken on a new look! Check us out at [www.asce-philly.org](http://www.asce-philly.org) Make sure you bookmark this site to check on our latest meetings and events, links and much more! Comments and/or suggestions? Please contact us either via our Electronic Message Hotline at 1-800-461-4190 (24 hours a day) or e-mail at [info@asce-philly.org](mailto:info@asce-philly.org).**PHILA. SECTION, ASCE  
OFFICERS 2001-2002****PRESIDENT**  
Chris L. Rood**PRESIDENT-ELECT**  
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John W. Stone**TREASURER**  
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DMJM+HARRIS126 Franklin Street  
Riverside, NJ 08075  
(856) 461-9565**Secretary - John W. Stone**Deloitte and Touche,  
Construction Consulting Services  
1700 Market Street, 22nd Floor  
Philadelphia, PA 19103-3984  
(215) 299-4530; Fax (215) 405-3157  
Email: [jostone@deloitte.com](mailto:jostone@deloitte.com)**PUBLICATIONS COMMITTEE**Chairman and Editor of THE NEWS  
Sidney Robin**Staff Writers**

Joe Symick    Bob Wright

**SEND COPY TO:**Sidney Robin  
64 Nancy Drive  
Richboro, PA 18954  
(215) 322-7464**COPY DEADLINE FOR  
SUMMER 2002 ISSUE  
MAY 10, 2002**

**RESPONSE REQUESTED**

**THE PHILADELPHIA SECTION E-NEWS  
AN ALTERNATIVE TO THE MAIL**

The Phila. Section, ASCE Board of Directors is currently exploring ways to reduce the Section's operating expenses while continuing to provide a high level of service to the membership. One possible reduction method we are considering is to offer our membership the opportunity of receiving THE NEWS via e-mail vs. through the US Postal Service. If you opt for e-mail delivery, your copy of THE NEWS should arrive 7-10 calendar days ahead of the US Postal Service delivered version. E-mail delivery will not only be quicker than the current method, but it will save the Philadelphia Section considerable printing and mailing charges as well. Another advantage with an electronic version is that you can forward THE NEWS to others interested in our Section's activities. E-mail receipt of THE NEWS will require downloading a free copy of Adobe Acrobat Reader 4.0 with receipt of your first edition of THE NEWS.

At this time we are providing members with a survey form to elicit their opinion of how they would like to receive THE NEWS in the future.

If we do not hear from you we will assume that you want the USPS option.

- E-mail THE NEWS to me @ \_\_\_\_\_
- US Postal Service mail THE NEWS to me at  home or at  work
- E-mail and USPS mail THE NEWS to me at  home or at  work

Your e-mail address is necessary since we are updating our database and it will help us to better serve you.

You can: call in your response to the survey at 1-800-461-4190 (24 hours a day);  
e-mail your response to us at info@asce-philly.org or  
mail your response to PO Box 58186, Philadelphia, PA 19102-8186.

Be sure to include your name, address, e-mail address(es), if applicable, and your ASCE Membership ID Number with your preference.

**Souvenir Program Advertisement Form**

*Annual Spring Social  
Dinner Dance & Awards Presentation*

**Special Feature: Commemoration of ASCE's 150th Anniversary  
and the Philadelphia Section's Own 89th Anniversary**

**"Civil Engineers - Building A Better World for 150 Years"**

*Friday May 3 2002*

Please check appropriate ad size. The souvenir book will be 8-1/2" x 11".

- |   |   |
|---|---|
| <input type="checkbox"/> Full Back Cover ..... \$300        | <input type="checkbox"/> Quarter Page ..... \$300                     |
| <input type="checkbox"/> Full Inside Back Cover ..... \$300 | <input type="checkbox"/> Business Card ..... \$300                    |
| <input type="checkbox"/> Full Page ..... \$300              | <input type="checkbox"/> Half Page Website Sponsor ..... \$300        |
| <input type="checkbox"/> Half Page ..... \$300              | <input type="checkbox"/> Business Card Newsletter Sponsor ..... \$300 |

All materials must be submitted by April 16, 2002. Camera-ready ad copy preferred.

Name/Company \_\_\_\_\_  
Contact Person \_\_\_\_\_  
Address \_\_\_\_\_  
Phone / Fax / Email \_\_\_\_\_

Make check payable to "Phila. Section ASCE for Spring Social 2002 Ad Souvenir Program"  
Mail check and materials to: Phila. Section, ASCE, P.O. Box 58186, Philadelphia, PA 19102-8186

Please contact Ruben D. David at (215) 683-4477 for questions regarding the ad.

## Technical Group Activities

(Continued from Page 2)

### Engineering Management Group

#### May Luncheon Meeting

DATE: Thursday, May 16, 2002

TIME: 12 Noon

COST: \$10 members & guests; Students: \$5.00

LOCATION: Municipal Services Building, 16th Floor, Conference Room Z, 15th & JFK Blvd, Philadelphia, PA 19102-1676

SUBJECT: The Delaware River Main Channel Deepening Project

SPEAKER: Stan Lulewicz, P.E., Project Manager, U.S. Army Corps of Engineers, Philadelphia District

The Delaware River Main Channel Deepening Project is a \$311 million project to deepen the existing Delaware River navigation channel from 40 to 45 feet between Philadelphia/Camden and the mouth of the Delaware Bay.

Approximately 26.3 million cubic yards of material would be dredged and placed in upland disposal areas in the river portion of the project, and at various beneficial use sites (wetland restoration and beach nourishment) in the Delaware Bay.

The Delaware River Ports represent the fifth largest port complex in the United States. The existing 40-foot navigation channel restricts efficient movement of tankers, dry bulk carriers, and container vessels. Deepening the Delaware River Main Channel from 40 to 45 feet is essential to guarantee the future competitiveness of the Delaware River ports.

For reservations, contact **Ruben D. David, P.E.**, Co-Chairman, at (215) 683-4477 or **Dennis MacBride, P.E.**, Co-Chairman, Engineering Management Group, at (215) 568-6500 by Friday, May 10, 2002.

## SECOND ANNUAL READING PHILLIES OUTING

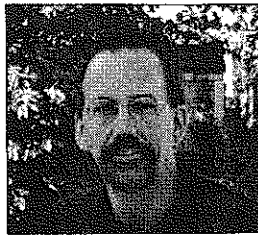
Come join us at the 2nd Annual Reading Phillies Picnic on **Sunday, June 16th, 2002.**

Reading Branch ASCE invites you to join your associates and their families for this 2nd Annual Joint Social Event with the Philadelphia Section. Come and participate in an entertaining minor league game between our Reading Phillies and the Akron Aeros at Reading Municipal Stadium. The festivities begin at 12:00 noon in the Picnic Pavilion along the 3rd base line. Food and beverages include: BBQ chicken, hot dogs, burgers, baked ziti, corn on the cob, pasta and potato salads, fresh fruit, chips, pretzels, soda, iced tea, and lemonade. The picnic buffet runs from 12:00 noon until 2:00 p.m. and the game begins at 1:05 p.m.

This is a fun-filled event with a variety of spectator participation activities between innings. Come out and enjoy the day with your fellow members and their families.

Cost is \$20.00 per person.

For reservations contact **Teri Frick, STV**, (610) 385-8416, or e-mail address: [frickt@stvinc.com](mailto:frickt@stvinc.com).



## THE PRESIDENT'S MESSAGE

Dear Fellow Section Members and Friends:

Welcome to the Section's April/May issue of THE NEWS, the last issue of the 2001-2002 Season. Another month has come and gone and, as typical, your Section has been extremely busy. Activities over the past month continued to flourish. The Technical Groups and Younger Member Forum continue to be very busy with a whole array of activities – activities that still continue. Additionally, our March Dinner Meeting was another well-attended function. Our Featured Speaker, **Nick Cinalli, P.E.**, gave the audience a very good overview of the planning, design and construction of the Parking Garages ongoing at the Philadelphia International Airport. What a very interesting and challenging project! Special thanks goes to Section Director **Walt DeLury, Jr.** for arranging such a wonderful meeting. It was also an evening where our Section was joined by the Delaware Valley Chapter, American Concrete Institute and where we also honored our new Life Members. Our April Dinner Meeting should prove to be just as good. We join forces with the Philadelphia Chapter of PSPE to hear about the Children's Hospital of Philadelphia Expansion Project. We also will be honoring the Section's Past Presidents. This is the last Dinner Meeting of the season so I do hope to see many of you there, and hopefully some new faces. Also, if you haven't done so already it's time to call in your reservations for the Annual Spring Social Dinner Dance and Awards Presentations. This is the one event that I know you have *resolved* to attend! Please take note of all of our upcoming activities elsewhere in this newsletter. There is still time for you to participate.

Springtime is in fact officially here. What a beautiful time of year! It's the time of year that nature refreshes itself and also your Section. It's hard to believe that the Section's 2001-2002 Season is already coming to an end. Yes, officially on May 3rd the 2001-2002 Season comes to an end, and during our Annual Spring Social on that evening my term as your President also comes to an end. Time does indeed wait for no one and goes by so swiftly. As the saying from one of Daytime's soap operas goes: "As sand through an hour glass so are the days of our lives." That has in fact been like my Presidency. It has gone by so fast and when reflecting back it has gone by with ease. Just as I got into the "groove", it's over. It has, however, been both an enjoyable and rewarding experience for me. I have my entire Section Board to thank for that. They were absolutely fabulous and did a tremendous job for not only me but for both the Section and the Civil Engineering Profession. The Technical Group Chairpersons along with **Christopher Wright** and all of the Younger Forum officers once again out did themselves and did an excellent job with having a broad spectrum of numerous activities. The energy and talent in all of those individuals is endless. I can't thank all of them enough. Additionally, many thanks goes out to Past President **Darin Gatti** in both serving as our Section's 150th Anniversary Champion and keeping us all straight on the Section's Membership data bases and newsletter labels and Past President **Susan Lior** for doing an excellent job in chairing the Richard L. Humphrey Memorial Fund Board of Trustees. Also, kudos go out to both **Sid Robin**, our Section's extremely energetic and versatile Chairman and Editor of THE NEWS, for another excellent year and to Past President and Mr. "General Good Guy", **Bob Wright**, for not only being a good mentor to me, but for championing the Section Awards Program and performing an almost endless task as Staff Writer, and also for keeping us all in line and focused. And, where would our Section be without the terrific support we continue to receive from many of the local firms. Many thanks go to my employer, **DMJM+HARRIS**, for allowing me the opportunity to participate.

The tragic events of September 11th aside, we had a good 2001-2002 season. With the help of all the aforementioned people your Section this Season was able to accomplish, among other things: near perfect attendance at all the Board Meetings; your newsletter getting out well in advance of the Dinner Meetings, including the Second Annual "Summer Edition"; your Technical Groups being very active with numerous meetings of various topics; your Younger Member Forum as robust as ever; your web site at [www.asce-philly.org](http://www.asce-philly.org) continually improving; your Section's move to electronically issue the newsletter to the members as opposed to regular mail; your Section's web site Sponsorship Program getting off of ground zero and your Section's community outreach programs continuing and expanding with very numerous and dynamic programs occurring. It was indeed a thorough delight to see such a wonderful group of volunteers work together for a common cause and to see such tremendous end results.

It has been a wonderful year for me as your Section President. I love being a Civil Engineer and I love contributing to our profession. It is an extremely rewarding career. In closing this message, I want to thank all Philadelphia Section members for the great year I have had as Section President. It has been a pleasure to have the opportunity to give something back to our profession and an honor to serve. I look forward to continuing to work with all of you and my best wishes to all of you in the coming years. My best wishes also go to **Rubin David**, the incoming Section President, and his Section Board. May they have a successful 2002-2003 Season.

Continue to be Safe, Healthy and Prosperous. Remember too "The happiness in your life is in direct proportion to the character of your thoughts." And Volunteer and Make a Difference.

Keep the Flag ever flying and GOD BLESS AMERICA!

Until Next Time,

Chris L. Rood, P.E.

President, Philadelphia Section, ASCE

P.S.: Please take the time to complete and mail back both the "Philadelphia Section E-News an Alternative to the Mail" survey form and the 2002 Philadelphia Section ASCE – Salary and Benefits Survey". Thank You!

## THE ROOD PRESIDENCY — ALL WE EXPECTED AND MUCH MORE!

Editorial

The Philadelphia Section, ASCE has been blessed — throughout its history — with a proliferation of talented leaders in all its functions, its Officers Board of Directors; and particularly those who attained its highest office — the Presidency of the Section for a tenure of one year. None of the Section's Past Presidents — it will surely not be disputed — exceeded in technological and administrative ability to initiate and lead in the development of programs in progress in the Section than **Chris L. Rood, P.E.**, whose tenure as President terminates when the new 2002-2003 administration is installed at the **May 3, 2002** Annual Spring Dinner Dance and Awards Presentation Ceremonies at the Radisson Hotel, Philadelphia Northeast, Trevose, PA.

A careful reading of Chris's inspiring monthly "President's Message" columns reveals his tireless energy in covering all the bases toward maintaining the momentum he promised in his very first Message in the October 2001 issue of THE NEWS. But this momentum came as no surprise to all the Board of Directors and affiliates who shared the official platforms with Chris as he ascended higher in the hierarchal ladder, finally to the Presidency. His final "Message," in this issue of THE NEWS, sums up his own assessment of what has been accomplished during his term. But this assessment is much too modest. It does not reveal on its surface the intensity of determination and hard work he exerted in his quest to fulfill all his objectives and hopes. Chris would be the first to acknowledge that all his goals were not achieved. It is uncontradictable that almost always there is not enough time in one year for any President to proclaim: "I have reached finality in all my promises and efforts." That lack of finality is nothing to be ashamed of, particularly in Chris's case, because he did accomplish so much, that will bestow a long-lasting legacy to the future progressive paths of the Section.

Chris Rood's professional career clearly exhibits his extraordinary technical and administrative abilities. These abilities are manifest in his impressive resume of experience. It was undoubtedly this base of expertise which prepared him for the responsibilities and obligations of being elected President of the Philadelphia Section, ASCE. At the present time, Chris holds the position of Project Manager for DMJM+HARRIS in their Riverside, NJ office. In this position he has the lead role in overseeing the construction on New Jersey Transit's Southern New Jersey Light Rail Transit Project. Prior to his employment with DMJM + HARRIS, Chris had worked for ten years at AMTRAK, followed by thirteen years with SEPTA. At his prior positions, he was a principal, in responsible charge of major engineering projects of both organizations. In addition to his professional positions at this workplace, Chris is a member of the Collegeville, PA Planning Commission; the Collegeville/Trappe Planning Committee; the Central Perkiomen Valley Regional Planning Commission; and the American Railway

Engineering Maintenance and Way Association. (Somehow, he also finds time to be a devoted husband to his lovely wife of 23 years, Tamara, and their 3-year-old daughter, Rachel. They reside in Collegeville, PA). Quite a biography, by any standard of valuation!

Chris Rood, a Registered Professional Engineer in Pennsylvania, received his BSCE at Penn State University and earned his MSCE at Drexel University. He has for many years served on the Delaware Valley Engineers' Week Council, currently holding the office of Vice Chair of that distinguished organization. In 1996 the Philadelphia Section, ASCE awarded him the honor of Transportation Engineer of the Year. His activities in the Section, even prior to his ascendancy to the Presidency, are legend. He served for several years as Chairman of the Section's Transportation Technical Group. As President he has maintained close contact with all of the Section's Technical Groups, permanent and Ad Hoc Special Committees, and offered his experience and recommendations to help these important affiliations to reach their full potential. His involvement with the Section's dynamic Younger Member Forum has been constant and beneficial, as the YMF continues its very busy and varied array of activities. He has actively continued the Section's policy of recognizing and honoring, at its monthly meetings, the ASCE Student Chapters, Alumni and Faculty of the Departments of Civil, Architectural, Environmental, Systems, etc., Engineering at area colleges and universities. He has maintained continuous communication with the Section's Reading Branch, making sure of a viable association of the Branch with its Philadelphia parent.

The Section's policy of Joint Meetings with other Engineering Societies has been continued and expanded under Chris Rood's leadership. The highly successful Joint Meetings with these Groups testify to this admirable policy.

In his final "President's Message," published in this issue of THE NEWS, Chris graciously acknowledges the help which his fellow Officers, Directors, Past Presidents, Technical Group and Committee officials contributed to his efforts. These tributes are appropriate manifestations of his patience, tolerance and willingness to evaluate the views of all individuals involved in the Section's programs and policies, before determining a final decision which is the President's prerogative.

Chris is gratified that the 2001-2002 season was very successful in Board of Directors and Main Meeting attendance, Technical Group activity, the robustness of the Younger Member Forum, the continually improving Section web site and initiatives toward issuance of the monthly newsletter, THE NEWS. On this note, your editor cannot express strongly enough his deep appreciation for Chris's tremendous assistance in preparing copy for each month's edition. It has been through Chris Rood's initiatives that the Section's Community Outreach Program has achieved great

strides in educating students and the general public in what we do as professional Civil Engineers in service to the community.

In Chris Rood's first "President's Message," published in the Summer 2001 Edition of THE NEWS, he generously expressed his appreciation for the previous year's administration under **Thomas J. Branigan's** exemplary presidency for all its dedication toward making that year such a success. Wrote Chris: "Tom's superb leadership and professionalism was an inspiration to all." He outlined, in that Message, his goal for the 2001-2002 Rood presidency term to help guide the new Officers and Section affiliations to make the year highly successful. He anticipated that this ideal would require hard work for all concerned, and he reached out for the help of the entire Section membership. One of the principal projects undertaken during Chris's presidency was the Building Big Program headed by Section Past President (1998-1999) **Sandra J. May** to kick off National ASCE's 150th Anniversary Celebration. His significant closing reminder in that first Message was "Volunteer and Make A Difference." In this supplication he has set a star example.

In his warm closing paragraph of his final Message, in this issue of THE NEWS, Chris declares that "...it has been a wonderful year for me as your Section President..." and extols his love of being a Civil Engineer and contributing to the profession. He thanks the Section membership for its help in giving him the pleasure of opportunity to give something back to our profession and enjoying the honor to serve.

Chris Rood's service as President of the Philadelphia Section, ASCE during the 2001-2002 season has been excellent almost beyond description — and he has accomplished in spades the objectives he originally proposed. We take great comfort and gratification in his declaration that he will continue to work on-behalf of the progress of the Section. There can be no doubt that he will fulfill that promise and resolve.

For your tremendous job as President, 2001-2002, Chris Rood, the Philadelphia Section, ASCE proclaims a rousing THANK YOU and Godspeed!

And now, **Ruben D. David, P.E.**, we welcome you as incoming President for the term 2002-2003, to be installed at the Section's Annual Spring Dinner Dance and Awards Presentations at the Radisson Hotel Philadelphia Northeast, Trevose, PA, **Friday, May 3, 2002**. You are no stranger to the Philadelphia Section membership. Your participation in activities and contributions at the Section's programs during your rise through official promotions has proven your expert capacities to perform the presidential duties. Just as your inspiring invocations before each dinner at the Section's regular monthly meetings have endowed you with the mark of fervor and grace, so do we anticipate that your endeavors as the new President will succeed with similar professional and administrative fervor and accomplishment. We offer our hands and our hearts to help you. Good Luck!

## YOUNGER MEMBER FORUM NEWS

by Christopher Menna,  
Forum Editor and Past President

### Younger Member Forum

Christopher Wright, President

DMJM+HARRIS  
The Atlantic Building  
260 S. Broad St., Suite 1500  
Philadelphia, PA 19102  
(215) 735-0832, ext. 293  
christopher.wright@dmjmharris.com

The Younger Member Forum (YMF) current membership includes college students, recent graduates, and young engineers including registered Professional Engineers who are 35 years of age and under. The objectives of the group are: 1) To provide networking opportunities, 2) To interact with schools and the general public to promote civil engineering, and 3) To enhance career development.

Young engineers or college students who would like to become part of the YMF please contact **Mike McAtee**, Urban Engineers, Inc. at [mjmcatee@urbanengineers.com](mailto:mjmcatee@urbanengineers.com) or at (215) 922-8080.

### From the YMF President

I wish to take this opportunity to sincerely thank all those who have been a part of the YMF and have helped to make this year so successful! The YMF Board is a huge reason for this success. This team of hardworking and creative individuals pulled together to turn new ideas into the exciting events we've had. They will undoubtedly lead the YMF to continued success in the years to come. Attendance at our events was incredible, and many times completely booked, thanks to the support of our 250+ members. Finally, I'd like to acknowledge the Philadelphia Section Board for their extreme generosity. Year after year the Section has shown their support by allocating the necessary funds for our events. It's also great to see them at our events.

### Past Accomplishments

Several members of the YMF held panel discussions with Civil Engineering students from the University of Pennsylvania and Villanova University on **March 27, 2002** and **April 4, 2002** respectively. The panelists responded to questions from the students regarding graduate school, career advancement, interviewing, and the importance of staying involved in ASCE. Special thanks to the panelists that volunteered and to **James Markham**, Pennoni Associates, for organizing both of these events. If you would like the YMF to conduct a panel discussion at your school, or would like to volunteer as a panelist, please contact **James Markham** at (215) 222-3000.

On **April 23, 2002**, the YMF held a technical meeting on the 16th floor of the Municipal Services Building in Center City. The featured speakers were **Tom Branigan** and **Bob Wright** of the City of Philadelphia Department of Streets. Tom and Bob gave an enlightening presentation on the Philadelphia Bike Network Program. Over 30 people attended the meeting including Younger Members and Section members. Free food and re-

freshments were provided. Thanks to YMF President **Christopher Wright** for handling the meeting arrangements.

### Upcoming Events

May is election month for the YMF. The YMF will be electing individuals to next year's Board. An election social is being organized and details will be sent out shortly. Please make an effort to come out and vote! If you are interested in being a part of next year's YMF Board, please contact **Christopher Wright** at [christopher.wright@dmjmharris.com](mailto:christopher.wright@dmjmharris.com).

In June, the YMF is planning a volunteer event in celebration of National Trails Day. Look for details of this event in future emails. If you are interested in volunteering at this or future events, please contact **Christopher Barber**, City of Wilmington, at (302) 571-4156.

### Member Spotlight

The purpose of the member spotlight is to introduce a fellow YMF member to the Delaware Valley Engineering Community.

**Daniel Afflick** received his B.S. and M.S. in Civil Engineering from Temple University. During his undergraduate and graduate years, Daniel was a member of the ASCE Student Chapter, the Minority Engineering Student Association (MESA), National Society of Black Engineers (NSBE), and a member of the Careers for Environmental Interns Profession (CEIP). Upon completing his M.S., Daniel worked as the corporate Environmental Compliance Officer for Merit Oil Corporation, Inc., and then as an Environmental Engineering Technician with Pennoni Associates.

Since 1994, Daniel has worked as a Civil Engineer for the Philadelphia Water Department (PWD). Daniel is the Asset Management Squad Supervisor and is responsible for supervising a staff of three. He is also responsible for management of the PWD's Valve Maintenance Information System database, reviewing capital improvement program water main relay and pump station rehabilitation and replacement design plans, large valve replacement planning, coordination of sectional GIS needs, and long term infrastructure planning.

Daniel's future goals are to obtain his P.E. and to pursue a Ph.D. in Engineering Construction/Project Management. Until then, he is busy making a name for himself at the PWD and spending time with his wife and two sons.

### NEW MEMBERS

The Philadelphia Section, ASCE welcomes the following new members: **Reece H. Wengenroth**; **Larry K. Brannaka**; **Robert L. Kowalczyk**; **Mark J. Tiger**; **Donald E. Curley**; **Ismael L. Guthrie**; **Richard A. Parisi**; **Mohiuddin A. Khan**; **Julie M. Liuzzo**; **Patrick J. DesMarais**; **Aubrey L. Strause**; **Raleigh D. Myers**; **Thomas E. Barton**; **Andrew R. Lawrence**; **Michael B. Fritzges**; **Joshua J. Hammel**; **Zhaoyang Chu**; **David R. Bernstein**; **Katherine M. Saltanovitz**; **Amy Brounsten**; **Ai-Yan Deng**; **Helene M. Brennan**; **Nishantha Bandara**; **Stephen A. Hess**; **Brian T. Baier**; **Timothy J. Kelly**; **John F.**

## 2002 SECTION AWARDS TO BE PRESENTED AT SPRING SOCIAL

The Phila. Section, ASCE Awards for the year 2002 will be presented to this year's recipients at the Annual Spring Social and Dinner Dance on Friday, May 3, 2002 (particulars on the Social are given elsewhere in THE NEWS). The Section Award recipients are:

- **John Peirce**, Peirce Engineering - Philadelphia Civil Engineer of the Year
- **Kristen Bowman**, Flow Science, Inc. - Philadelphia Young Engineer of the Year
- **Robert Guthrie**, Parsons Brinckerhoff - Engineering Manager of the Year
- **Dennis Mohan**, Washington Group - Geotechnical Engineer of the Year
- **John Taylor**, Black and Veatch, Inc. - Water Resources Engineer of the Year
- **Dennis MacBride**, HNTB, Inc. - Transportation Engineer of the Year
- **Philip Udo-Inyang**, Temple University - Educator of the Year
- **Robert Borski**, US House of Representatives - Government Service Award
- **Richard Mulford**, Engineers Club of Philadelphia - Presidential Award
- **DMJM + HARRIS** - Employer Recognition Award

We hope you will join us at the Social to honor these deserving individuals.

The October issue of THE NEWS will feature more information on the awardees as well as a synopsis of the Social's events.

## 2002 NATIONAL MEMBERSHIP DUES

FELLOWS	\$210 annually
MEMBERS, ASSOCIATE MEMBERS, AFFILIATE MEMBERS (not recent BS grads)	\$175 annually
ASSOCIATE MEMBERS AND AFFILIATES who are recent recipients of a Bachelor's degree are entitled to a sliding dues schedule based upon the year the Bachelor's degree was granted:	
Year of graduation	\$50 annually
First year after receipt of Bachelor's degree	\$50 annually
Second year after receipt of Bachelor's degree	\$75 annually
Third year after receipt of Bachelor's degree	\$100 annually
Fourth year after receipt of Bachelor's degree	\$135 annually
Fifth year after receipt of Bachelor's degree	\$175 annually
STUDENTS	\$0 (free)
If you have any questions, please contact Member Services at 1-800-548-ASCE (2723).	

**Hohenstein**; **Michael S. Hayko**; **Christopher A. Russ**; **Kaizhen Shen**; **Mark Zimmerman**; **John J. Peterman, III**; **Patrick S. Markham**; **Robert J. Verna**; **Matthew Bezanson**; **Sean P. Hughes**; **Christopher C. Yohn**; **Todd D. Fleming**; **Timothy J. Fullerton**;

(Continued on Page 7)



## MARCH JOINT DINNER MEETING

March 21, 2002

Williamson's City Line Ave., Phila., PA

### "Doubling Parking Capacity at the Airport"

By Bob Wright, Staff Writer and Sid Robin, Editor

A gratifyingly large turnout of members, guests, students, alumni and faculty enjoyed an enlightening presentation at the March 21st Annual Joint Meeting of the Phila. Section, ASCE and the Delaware Valley Chapter, American Concrete Institute (ACI). Always a rewarding discussion of important technological and economic-impact events, the subject of the meeting was the vitally important development of "Doubling the Capacity of Parking at the Philadelphia International Airport." Principal Speaker was Nick Cinalli, P.E., Partner, O'Donnell and Naccarato, Consulting Structural Engineers. Mr. Cinalli was assisted in the presentation by Glenn DeHaven, P.E., of his staff.

The meeting was capably co-chaired by Chris L. Rood, P.E., President of the Phila. Section, ASCE; and Paul D. Spiegel, P.E., President of the Delaware Valley Chapter, ACI. Both officials made announcements of interest to their respective organizations.

#### Special Features

The Phila. Section honored its recently installed ASCE Life Members (see list in THE NEWS, March 2002). Also honored was the Phila. Section, ASCE Technical Group, Delaware Valley Geo-Institute (DVGI). Philip Gauffreau, P.E., an official of DVGI, substituting for Group Chairman Craig R. Calabria, P.E., who was unable to attend the meeting, presented a brief overview of the objectives and activities of the Group.

#### Swarthmore College Night

Continuing its custom of recognizing and featuring, at regular monthly meetings, the ASCE Student Chapters, Alumni and Faculty of area Civil Engineering School, the Phila. Section honored Swarthmore College School of Engineering, which includes Civil Engineering and other specialties. Dr. Faruq Siddiqui, P.E., Past President (1999-2000) of the Phila. Section, Head of the Civil Engineering Department at Swarthmore, and Faculty Advisor of the ASCE Student Chapter, thanked his hosts for their courtesies. On a personal note, Faruq expressed great pride in his family lineage, which featured several Civil Engineers. He noted that Swarthmore, principally renowned as a small Liberal Arts College, boasts 10 percent of its approximately 1300-member student body are engineering students, and many graduates are renowned in their fields. A large percentage of undergraduate school students pursue postgraduate degrees. The principal objectives of the great technological training is to produce leaders in engineering, enhanced by opportunities to learn subjects outside of the strict limits of technology, i.e., history, social sciences, liberal arts, etc.

#### Co-Presidents of Student Chapter Speak

Swarthmore ASCE Student Chapter Co-Presidents Michelle Lowry and Rory Kondrad also

thanked their hosts for honoring the Chapter and Civil Engineering Department. Their fellow officers were introduced: Secretary, Stefan Gary; Community Service Coordinator, Johanna Yoon; Treasurer, Katie Saltanovitz; Web Master, Wynn Wu; Chapter Member, Alex Flurie.

The ASCE Student Chapter has fifteen members, and features programs in structural, environmental, concrete beam design; and field trips to construction sites, prestressed concrete plants and others. They also conduct technical paper competitions on Civil Engineering specialties, research, and participate in rehabilitation projects.

#### Swarthmore Participation in ACI Student Concrete Beam Competition 2001

An interesting report on this competition was presented by Swarthmore ASCE Student Chapter Secretary Stefan Gary. Led by Jonah Eaton, Stefan Gary, Rory Kondrad, Michelle Lowry and Johanna Yoon, under the advice of Professor Siddiqui, and with the additional help of Wynn Wu, Olga Rostapshora, Tim Lang and Tan Ma Wu; two teams of Swarthmore students designed, cast, and finished one concrete beam each for competition in the Annual Delaware Valley ACI Student Concrete Beam Competition. Theoretical and observed beam behaviors for 1/4-inch mid-span deflection and ultimate load were compared and found to deviate by about 16% and 12% respectively. The beams failed by crushing in the compressive zone, as expected. Discrepancies between experimental and theoretical behavior was due to unexpected voids in the beam.

The mix design used for the competition beams is presented in the table below. During the process of preparing the mix and placing it into the beam forms, it was found that the mix was extremely dry. A significant amount of time was spent tamping the beams to ensure that the concrete was sufficiently compacted.

Material	Weight (lbs.)	Volume (ft <sup>3</sup> )
Type 1 Cement	20.614	0.1049
Silica Fume	2.290	0.01638
Coarse Agg.	74.388	0.4499
Fine Agg.	45.243	0.2767
Superplasticizer	0.748	—
Water	7.7	0.1234
Batch	150.983	
0.9713 + 2.5% Air = 0.9956 ft <sup>3</sup>		

Fourteen day compressive strengths of 3"x6" cylinders were 5802, 6846, and 12941 psi. The extreme variation in these compressive strengths is attributed to poor packing of the cylinders. From these data, we estimated the 14-day compressive strength to be 11000 psi. The corresponding full strength of the concrete was therefore taken to be approximately 12000 psi.

#### DeLury Introduces Speaker

Section Director Walt DeLury introduced the Main Speaker for the evening, Nick Cinalli, P.E.,

## NOMINATIONS FOR OFFICE

### Philadelphia Section, ASCE 2002- 2003

The Section's Nominating Committee, chaired by Past President Thomas J. Branigan, has submitted its slate of candidates for open elective positions on the Board of Directors for the 2002-2003 administrative year. All candidates have indicated their willingness to serve if elected.

President: Ruben D. David (moves from current President-Elect position automatically)

President-Elect: Allan F. Moore, Jr. (one year as President-Elect followed by one year as President)

Vice President: Brian Stover

Secretary: John Stone

Directors: 2-year terms

Karen Anne Riley

Christopher Menna

Patricia M. Gallagher

Offices in which incumbents have one remaining year to serve are:

Treasurer: David C. Hanly

Membership Secretary:

Dr. Robert M. Brooks

Directors: Walt DeLury, Carol Martsof and John Zarsky

Past Presidents to serve on the Board of Directors are:

Faruq Siddiqui - one year

Thomas J. Branigan - two years

Chris L. Rood - three years

Non-voting assistant position candidates have been proposed as follows:

Assistant Secretary: Alyson Lester

Assistant Treasurer: Mark Washington

The Board of Directors will be officially installed at the Section's Annual Spring Social Dinner Dance & Awards Presentations on Friday, May 3, 2002 at the Radisson Hotel, Northeast Philadelphia, Trevese, PA.

## ASCE, CELEBRATING 150 YEARS OF BUILDING A BETTER WORLD

Founded in 1852, the American Society of Civil Engineers (ASCE) is America's oldest and preeminent National Society for Civil Engineering. Through your continued support and participation, ASCE advances the science and profession of civil engineering to enhance the welfare of humanity.

Partner of O'Donnell and Naccarato, Project Consultants for the Terminals 1 and E/F Parking Garage expansion effort.

#### Project Overview

Mr. Cinalli gave a short overview of the featured project, which is providing two new parking garages at Philadelphia International Airport (PHL). The garages will double the current close-in short-term parking (from 5000 to 10,000 spaces) over a two-year implementation period.

(Continued on Page 7)

## 2002 Philadelphia Section ASCE – Salary and Benefits Survey

The Philadelphia Section, ASCE, is conducting its bi-annual Salary and Benefits Survey and is asking for your help so that we can better serve you. The Survey helps you gauge your career achievements among your peers and identifies trends that directly affect you and your future. It requires only about 10 minutes of your time to complete the enclosed questionnaire. Help yourself achieve your career goals and enhance the profession's image. Please complete this questionnaire, fold so that the return address is on the outside, tape and return by May 31, 2002. If you prefer, you can respond via e-mail. When the Section e-mails this survey to you, return your completed survey to dmmacbride@aol.com. The results will be published in the first issue of THE NEWS in the Fall. *Thank you!*

### A. PERSONAL DATA

1. Age \_\_\_\_\_
2. Years of full-time employment \_\_\_\_\_
3. Race
  - \_\_\_\_\_ a Caucasian
  - \_\_\_\_\_ b African American
  - \_\_\_\_\_ c Hispanic
  - \_\_\_\_\_ d Asiatic
  - \_\_\_\_\_ e Other \_\_\_\_\_
4. Sex
  - \_\_\_\_\_ a Male \_\_\_\_\_ b Female
5. Marital Status
  - \_\_\_\_\_ a Single
  - \_\_\_\_\_ b Married
  - \_\_\_\_\_ c Divorced
  - \_\_\_\_\_ d Widowed
  - \_\_\_\_\_ e # of children, if any \_\_\_\_\_
6. Education (Check highest level)
  - \_\_\_\_\_ a No Degree
  - \_\_\_\_\_ b Bachelor's Degree
  - \_\_\_\_\_ c B.S. Degree+15 hours
  - \_\_\_\_\_ d Master's Degree
  - \_\_\_\_\_ e Doctorate Degree
7. ASCE Membership Grade/# of Yrs.
  - \_\_\_\_\_ a Student \_\_\_\_\_
  - \_\_\_\_\_ b Associate \_\_\_\_\_
  - \_\_\_\_\_ c Member \_\_\_\_\_
  - \_\_\_\_\_ d Fellow \_\_\_\_\_
  - \_\_\_\_\_ e Life \_\_\_\_\_
8. Registration, if any
 

yes (# of states)	# of Years
_____ a EIT	_____
_____ b PE	_____
_____ c LS	_____
9. Other Membership
 

\_\_\_\_\_ Indicate the number of Professional/Technical Organizations other than ASCE of which you are a dues-paying member (i.e.: NSPE, ACI, etc.)

### B. EMPLOYMENT DATA

1. Income source
  - \_\_\_\_\_ a Self-employed
  - \_\_\_\_\_ b Salaried
  - \_\_\_\_\_ c Commissioned
  - \_\_\_\_\_ d Retired
  - \_\_\_\_\_ e Unemployed
  - \_\_\_\_\_ f Student

### 2. Type employer (Check one)

- \_\_\_\_\_ a Consultant
- \_\_\_\_\_ b Contractor/Builder
- \_\_\_\_\_ c Federal Gov.
- \_\_\_\_\_ d State Gov.
- \_\_\_\_\_ e Municipal, Local or Regional Gov. or Auth.
- \_\_\_\_\_ f Utility (Private & Public)
- \_\_\_\_\_ g Education
- \_\_\_\_\_ h Sales
- \_\_\_\_\_ i Other (explain) \_\_\_\_\_

### 3. Number of Employees in organization

\_\_\_\_\_

### 4. Primary Responsibility (Check one)

- \_\_\_\_\_ a Technical
- \_\_\_\_\_ b Sales
- \_\_\_\_\_ c Management
- \_\_\_\_\_ d Administrative
- \_\_\_\_\_ e Other (explain) \_\_\_\_\_

### 5. Do you supervise other people?

- \_\_\_\_\_ a Yes \_\_\_\_\_ b No

### 6. Number of different employers since graduation (including current) \_\_\_\_\_

### 7. Do you have a second job?

- \_\_\_\_\_ a Yes \_\_\_\_\_ b No

### 8. Years with current employer \_\_\_\_\_

### 9. Primary County of Employment/ Residence (Check one)

- |       |                            |       |
|-------|----------------------------|-------|
| Work  | PA                         | Home  |
| _____ | a Bucks                    | _____ |
| _____ | b Chester                  | _____ |
| _____ | c Delaware                 | _____ |
| _____ | d Montgomery               | _____ |
| _____ | e Philadelphia             | _____ |
| Work  | NJ                         | Home  |
| _____ | f Burlington               | _____ |
| _____ | g Camden                   | _____ |
| _____ | h Gloucester               | _____ |
| _____ | i Other (Identify ___/___) | _____ |

### 10. Method of Commuting (Check one)

- \_\_\_\_\_ a Drive
- \_\_\_\_\_ b Mass Transit
- \_\_\_\_\_ c Car Pool
- \_\_\_\_\_ d Walk
- \_\_\_\_\_ e Drive and Mass Transit
- \_\_\_\_\_ f Other (Identify \_\_\_\_\_)

### 11. Approximate commuting time, minutes (one way \_\_\_\_\_)

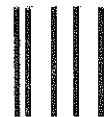
### C. SALARY AND BENEFITS

1. Salary (include normal overtime) \$ \_\_\_\_\_ per yr.
2. If bonus or commissions are paid in addition to above salary, indicate expected amount per year \_\_\_\_\_
3. Overtime Remuneration
  - \_\_\_\_\_ a None
  - \_\_\_\_\_ b Time (Compensatory)
  - \_\_\_\_\_ c Paid @ regular pay rate
  - \_\_\_\_\_ d Paid at time&a half rate
  - \_\_\_\_\_ e Double Time
4. Average number of hours worked per week \_\_\_\_\_
5. Vacation (incl. Admin. Leave, Personal Days, etc.) \_\_\_\_\_ days
6. Holidays \_\_\_\_\_ days
7. Sick Leave (number of days per year at full salary) \_\_\_\_\_ days
8. Insurance (Company Paid)
 

For "a" thru "h" fill in:

  1. 100% company paid
  2. Partially company paid
  3. Available, employee pays all
  4. Not available
  - a Hospitalization \_\_\_\_\_
  - b Major Medical \_\_\_\_\_
  - c Dental \_\_\_\_\_
  - d Optical \_\_\_\_\_
  - e Disability \_\_\_\_\_
  - f Life \_\_\_\_\_
  - g Legal Fees \_\_\_\_\_
  - h Child Care \_\_\_\_\_
9. Pension Plan \_\_\_\_\_ yes \_\_\_\_\_ no
10. Profit Sharing
  - yes \_\_\_\_\_ no \_\_\_\_\_
  - not applicable \_\_\_\_\_
11. 401(k) or equivalent
  - yes \_\_\_\_\_ no \_\_\_\_\_
12. Formal severance pay policy
  - yes \_\_\_\_\_ no \_\_\_\_\_
13. Contributing Education tuition reimbursement
  - yes \_\_\_\_\_ no \_\_\_\_\_
  - If yes, maximum % \_\_\_\_\_

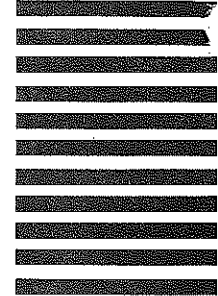




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### D. OPINIONS

1. Are you satisfied with your current employment situation?
  - a Unsatisfied
  - b Somewhat unsatisfied
  - c Satisfied
  - d Most satisfied
  - e Very satisfied
2. Do you believe that, in your current employment situation, you are performing true engineering work.
  - a Yes
  - b No, primarily administration, supervisory, business, promotion, etc.
  - c No, primarily technician/draftsperson
  - d No, other functions
3. Do you believe that your work is properly reviewed?
  - a Yes
  - b Yes, but could be better
  - c No
  - d Not applicable
4. Do you think you will be looking for a new job within the next 2 years?
  - Yes  No If Yes, why?
    - a Salary
    - b Boss
    - c Lack of responsibility
    - d Other (Explain)
5. If you were looking for a new job, what would be your most critical concern? Rank 1, 2, 3, etc.
  - a Pay and benefits
  - b Company reputation
  - c Responsibility
  - d Security
  - e Location
  - f Amount of travel
  - g Type of work
  - h Other (explain) \_\_\_\_\_
6. How easy do you believe it would be for you to find a new job?
  - a Very easy
  - b Easy
  - c Somewhat difficult
  - d Difficult
7. Do you believe your salary, considering your experience and ability, compared to other Civil Engineers, is:
  - much lower
  - lower
  - similar
  - higher
  - much higher
8. Do you believe your fringe benefits, compared to other Civil Engineers, are:
  - much lower
  - lower
  - similar
  - higher
  - much higher
9. Is your professional physical environment (office appearance, privacy, secretarial support, etc.) important to you?
  - a Yes  b No
10. Are you satisfied with your professional physical environment?
  - a Yes  b No
11. Do you agree or disagree with the following statements?
  - agree  disag.
  - a. Registration should be required for all Engineers as a condition of continued employment \_\_\_\_\_
  - b. Continuing Education should be required to maintain registration \_\_\_\_\_
  - c. Consulting work should not be competitively bid \_\_\_\_\_
  - d. Advertising, by engineers, that is not self-laudatory is acceptable \_\_\_\_\_
  - e. There is currently a shortage in the number of Civil Engineering Graduates \_\_\_\_\_
12. If you had a second chance would you still become a Civil Engineer?
  - a Yes  b No

Why? \_\_\_\_\_

Additional comments and suggestions for future questions: \_\_\_\_\_

## March Dinner Meeting

(Continued from Page 6)

(This space total does not include long-term remote lots.) The impetus for the garages was two-fold – a continual shortfall of close-in parking given increasing passenger volume at PHL and the current PHL expansion which includes the opening of two new terminals (Terminal 1, the new international terminal, and Terminal F, the new commuter terminal). However, even with the new garages, parking will still be at a premium at PHL due to site constraints.

### Stringent Design & Completion Stipulations

The design team was assembled in June 2000 in response to a request for proposal (RFP) issued by PHL and the Philadelphia Parking Authority (PPA), the operator of the garages at PHL. The RFP stipulated that both design and construction had to be completed in 24 months after issuance of a notice to proceed for the design. This was a very ambitious schedule, given that the normal time period this type of work would require was at least double of what was stipulated, especially when it is considered that the combined garages' floor surface space was equivalent to the area of 37 football fields.

### Planning and Logistics

Mr. Cinalli explained that the new garages would be appended onto existing structures adjacent to Terminal A and Terminal D. The Terminal 1 garage, next to the Terminal A facility, would serve the proposed international terminal under construction and would utilize the ramp access helix system of the Terminal A garage. The other new garage, Terminal E/F, would be adjacent to those terminals and serve both existing Terminal E and new Terminal F. It would require its own ramp helix system due to capacity constraints. The new structures would be 7 levels tall, exceeding the 5-level existing garages, and would have setback levels near the top for aesthetic reasons. To meet the planned opening schedule of Terminal F (June 15, 2001), a minimum of 1000 spaces in the E/F garage would have to be available by that date.

### Construction Details Contract Constraints & Costs

To match the existing facilities, the new garages would be constructed of precast concrete, except for the ramp helix, which would be poured in place concrete. The size of the new garages and the compressed construction schedule would dictate that a total of seven precast manufacturers would be needed to produce all needed members. The total anticipated cost of the program was \$120 million. The construction contracts would have to be bid through a government process as public funding was being utilized. The bid process would add an additional constraint of its own in the implementation schedule.

### Bid Procedures Facilitated with Expert Scheduling & Traffic Flow Logistics

Mr. Cinalli noted that construction was grouped into three bid packages – all piles and precast elements, elevators, and other work. This would allow the long lead-time portions, such as

precast and elevators, to go to bid early to meet the ambitious schedule. The design team produced all three bid packages in 5 months.

During design, a logistical problem with traffic flow became apparent. There were two 18-lane toll plazas serving the existing garages, and this would not be adequate for the expanded garage network. A decision was made to locate a new single toll plaza with 30 lanes at the north end of the complex. This would require a completely new exit lane to avoid congestion and traffic conflicts at roadway level where exiting traffic would need to interface both incoming garage traffic and pedestrians. The new exit lane actually travels through Garages A, B, C, D and E/F to reach the new toll plaza.

### Management of Construction Program

Mr. Cinalli, assisted by Glenn DeHaven, P.E. of his staff, explained the management of the garage construction program. All site constraints were met and the goal of 1000 spaces for Terminal F by its June 2001 opening was achieved. Aesthetic concerns were addressed in the design of stair/elevator towers and the addition of lighting and decorative elements on the structures. The work included the construction of a new PPA administration building adjacent to the toll plaza. Pneumatic tubes were installed to move money directly from the collection booths to the money room in the building.

Mr. DeHaven noted that construction obviously had to respect the normal flow of traffic at the Airport and keep as many parking spaces open and available as possible while maintaining continuous access to all terminals. Considerable utility relocation was also necessary, often without adequate underground line information, while utility service was maintained. Airfield security, especially since the events of last September, remains a paramount concern.

Mark DiPietro of Oldcastle Precast, one of the construction contractors on the project, outlined the challenges the project placed on the precast industry. As mentioned, a total of seven precast manufacturers were involved in the project with work being done as far away as Canada. The elements were divided to ensure that the finished products would look as uniform as possible (for example, all shear walls were done through one precast supplier, all stairways by another, etc).

Mr. Cinalli wrapped the presentation, noting that the work is on schedule for June 2002 completion, as required in the RFP.

### Question and Answer Period

A lively Question and Answer period followed the outstanding presentation by Mr. Cinalli and his assistants. Many interesting, penetrating comments and questions from members in the audience were responded to forthrightly by the expert speakers. The constraints of time prevented many more comments and questions.

On behalf of the Phila. Section, ASCE, President Rood presented Gifts of Appreciation to the speakers for their excellent presentation.

# Section Profiles

## Faruq M.A. Siddiqui Past President

Faruq Mahmud Anam Siddiqui, Professor and Chair of Engineering Department of Engineering, Swarthmore College, Swarthmore, PA

**Academic Degrees & Professional Registration**  
Doctor of Philosophy, Department of Civil Engineering, University of Pittsburgh, PA; MS in Civil Engineering, University of Pittsburgh, PA; B.S. in Civil Engineering, Bangladesh University of Engineering & Technology, Dhaka, Bangladesh; Registered Professional Engineer (PA).

### Research Interests

Finite Element Structural & Stress Analysis; Structural Dynamics & Earthquake Engineering (Base-Isolated Structures); Computer Aided Instruction and Computer Aided Design Software Development including applications of Computer Graphics; Expert Systems; Steel & Reinforced Concrete Structures

### Memberships

American Society of Civil Engineers; American Concrete Institute; American Society of Engineering Education; Structural Stability Research Council; Sigma Xi (the National Scientific Research Society)

### Honor Societies

Chi Epsilon National Civil Engineering Honor Society; Tau Beta Pi National Engineering Honor Society

### Other Professional Activities

Director (95-97), Vice President (97-98), President-Elect (98-99), President (99-00); Philadelphia Section, American Society of Civil Engineers; Secretary to Faculty, Swarthmore College (95-96); Member-At-Large, Structural Stability Research Council (98-99); NSF International Post-Doctoral Research Fellowship Award Review Panel (95); Reviewer, ASCE Journal of Computing in Civil Engineering (1986-current); Ex-Com member, President-Elect, President, Swarthmore Chapter of Sigma Xi (90-95); Sloan Fellowship, Princeton University (1989); ASCE Student Chapter Faculty Advisor at Swarthmore (82-current); Delaware Valley ACI Beam Competition Committee (89-current), Chairman (92) and the list goes on....

## NEW MEMBERS

(Continued from Page 5)

Hisham A. Himmet; Ryan C. Brown; Michael J. Noreika; Ryan Kalleberg; Alexander D. Flurie; Eric C. Cimo; Timothy J. Greene; Brian T. Purcell; Roy J. Lehman III; Stephen Yates; Linda J. Douthwaite; Keith A. Lieberman; Mike Dowger; Nicholas B. Speach; Sofia E. Pappas; Gregory C. Scafonas; Matthew H. Lattman; Hiroki Baba; Brian McAnallen; Jeremiah McCombie; Joseph L. Abriola Jr.; James Cahill; Jesse A. Young; Justin A. Thomas; Jeff Rosengarten; James F. Glova; Stephen G. Nave;

## JOIN THE SECTION'S TECHNICAL GROUPS

### Construction

*Brian Stover, P.E., Chairman*  
Urban Engineers, Inc.  
530 Walnut St., 14th Floor  
Philadelphia, PA 19106  
(215) 922-8080

### Structural

*Dr. Mohiuddin (Ali) Khan, P.E., Chairman*  
Manager, Bridge Division  
STV Incorporated  
820 Bear Tavern, Suite 105  
Trenton, NJ 08628  
(609) 530-9618

### Transportation

*Chris L. Rood, P.E., Chairman*  
DMJM+HARRIS  
126 Franklin St.  
Riverside, NJ 08075  
(856) 461-9565

### Engineering Management

*Dennis M. MacBride, P.E., Co-Chairman*  
HNTB Corporation  
8 Penn Center, 7th Floor  
1628 John F. Kennedy Blvd.  
Philadelphia, PA 19103  
(215) 568-6500

*William J. Mulloy, P.E., Co-Chairman*  
U.S. Army Corps of Engineers  
Wanamaker Building  
100 Penn Square East  
Philadelphia, PA 19107-3390  
(215) 656-6583

### Delaware Valley Geo Institute (DVGI)

*Craig R. Calabria, Ph.D., P.E., Chairman*  
GeoSystems Consultants Inc.  
514 Pennsylvania Avenue  
Fort Washington, PA 19034  
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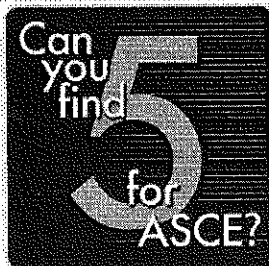
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## WISHING YOU A PLEASANT SPRING AND SUMMER

On behalf of the Officers and Board of Directors of the Phila. Section, ASCE, THE NEWS extends to the Membership its Best Wishes for a pleasant Spring and Summer Season. We look forward to an active 2002-2003 year starting in October, 2002. So, please participate fully, attend all meetings and functions of the Technical Groups, Standing and Special Committees, etc., and invite your colleagues and associates to join with you in attending and supporting all Section activities. And we'll see you at the Annual Dinner Dance at the Radisson Hotel, Trevoise, PA, Friday, May 3, 2002 (see page 2 for details!)

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*"Absence of occupation is not a rest.  
A mind quite vacant is a  
mind distressed."*

- William Cowper