

the news



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PHILADELPHIA SECTION

AMERICAN SOCIETY OF CIVIL ENGINEERS

P. O. Box 58186, Philadelphia, PA 19102-8186

Electronic Message Hotline: (215) 934-3639 (24 hours a day)

Vol. 67-9

Our 81st Year

April/May 1995

APRIL DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

THURSDAY, APRIL 20, 1995

WILLIAMSON'S • GSB Building • City Line Ave. • Philadelphia • (See Location Map Below)
Cocktails - 5:30 p.m. • Dinner - 6:30 p.m. • Meeting - 7:30 p.m.

SUBJECT: PHILADELPHIA INTERNATIONAL AIRPORT — THINGS ARE LOOKING UP
SPEAKERS: Mary Rose Loney, Director of Aviation, City of Philadelphia

SPECIAL EVENT: Presentation of Life Membership Certificates

SPECIAL FEATURE: TEMPLE UNIVERSITY NIGHT

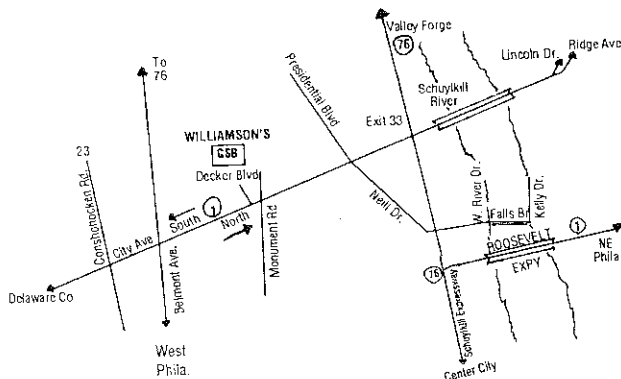
The ASCE Student Chapter, Alumni, and Faculty of the Civil Engineering Department of Temple University will be honored at this meeting. All Students, Alumni and Faculty are cordially invited.

RESERVATIONS MUST BE SUBMITTED BY FRIDAY, APRIL 14, 1995. Please send your check for the number of attendees @ \$25.00 per member or guest; \$13.00 ASCE Student members, payable to the Phila. Section, ASCE, P.O. Box 58186, Phila. PA 19102-8186; or call the Electronic Message Center: (215) 934-3639 (open 24 hours/day).



Mary Rose Loney is the Director of Aviation for the City of Philadelphia's airports, which include Philadelphia International Airport and Northeast Philadelphia Airport. In this capacity, she directs all Airport operations, maintenance, fiscal affairs, planning and construction of the airports' Capital Improvement Program. Philadelphia International Airport handles more than 16 million passengers with about 400,000 aircraft takeoffs and landings each year. The airport system is totally self-supporting with an annual budget of \$121 million to meet operating, maintenance and debt service needs. Ms. Loney oversees a staff of 560

(Continued on Page 3)



LOCATION MAP
for
Williamson's
GSB Building,
City Line Ave.,
Phila.

TECHNICAL GROUP ACTIVITIES Construction Group

April Meeting

Date: **Monday, April 24, 1995**

Cost: \$25.00/person

Location: Philadelphia Airport Days Inn, Route 291 and Island Avenue

Cocktails-6:00 pm • Dinner - 6:30 pm • Talk - 7:30 pm

SUBJECT: Organized Crime in the Construction Industry

The Construction Group of the Phila. Section, ASCE, is sponsoring a Joint Meeting with the Mid-Atlantic Chapter of the Construction Management Association of America (CMAA) to discuss organized crime and its effect on construction. The talk will be given by a representative of the Pennsylvania State Police, **Sergeant David Young**, Supervisor of Organized Crime - East, out of Philadelphia. He will focus on current involvement of organized crime in the unions affiliated with construction and in the construction business. The talk should be very interesting and informative.

For reservations, please contact **Evelyn Alberts** at Urban Engineers, Inc., (215) 923-5077.

Structural Group

April Meeting

Date: **Wednesday, April 19, 1995, 7:00 p.m.**

Location: Hill Seminar Room, LeBow Engineering Center, Drexel University, 31st and Market Sts., Phila., PA

SUBJECT: Discussion of New Developments in the Steel Joist Industry

SPEAKER: Dick Phaneuf, Chief Engineer, New Columbia Joist Company

Mr. Phaneuf will discuss updates to the Steel Joist Institute Specifications. Stability requirements during erection and the new KCS/KCM - Constant Shear/Constant Moment Joists.

If you are interested in joining us for these informal meetings (March and April) (snacks and refreshments will be provided), please make your reservations with: **Richard D. Roberts**, Chairman, Structural Group, (215) 561-0460.

Continued on Page 2

• **HERE COMES THE ANNUAL SPRING DINNER DANCE • SEE PAGE 2** •

**ASCE GOES SOCIAL
ON CINCO DE MAYO!!**
(MEXICO'S INDEPENDENCE DAY)

**YOU DON'T HAVE TO BE SPANISH
TO GET IN THE SPIRIT!**

**THE FABULOUS ANNUAL
DINNER DANCE
FRIDAY, MAY 5, 1995**

AT
SUGARLOAF CONFERENCE CENTER

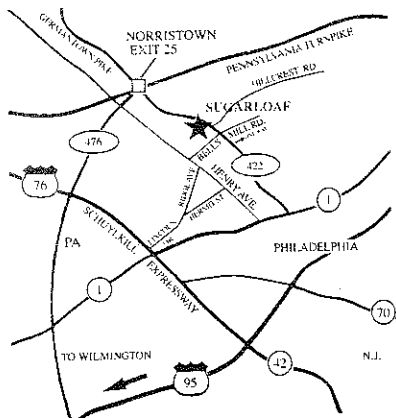
(EXECUTIVE CONFERENCE CENTER OF TEMPLE UNIVERSITY
9230 GERMANTOWN AVE, PHILA., PA 19118 (215) 242-9100

SEE LOCATION MAP BELOW • PARKING ON PREMISES

6:00 PM COCKTAILS (CASH BAR)

7:00 PM BUFFET DINNER (MEXICAN & AMERICAN)

PRESENTATION OF AWARDS
COME JOIN YOUR FRIENDS FOR FUN!
PARTICIPATE IN THE BATTLE OF THE PIÑATAS!
SEND FOR YOUR TICKETS TODAY...
GUESTS WELCOME!
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CONFIRMATIONS WILL
BE MAILED AFTER CHECK
IS RECEIVED.

Technical Group Activities

(Continued from Page 1)

Transportation Group

April Luncheon Meeting

Date: April 11, 1995, 11:30 a.m.

Tour of the New University City Commuter Rail Station

The Phila. Section, ASCE Transportation Group is sponsoring a Tour of the newly constructed University City Commuter Rail Station. The station was constructed by the City of Philadelphia, Department of Public Property and will be turned over to SEPTA for operation. The station is located off of Convention Avenue adjacent to the Philadelphia Civic Center. The new station will provide service to the University City section of the City, and to the University of Pennsylvania and Children's Hospitals.

The Tour will be conducted by **Ruben D. David, PE** and **Zia A. Kahn, P.E.** Mr. David is Chief Civil Engineer in the City's Architectural/Engineering Division and served as the City's Project Manager on this project. Mr. Kahn is the Director of Engineering & Construction in the City's A/E Division, Department of Public Property.

A luncheon will begin the event at the Penn Towers Hotel located at 34th Street and Convention Avenue at 11:30 a.m. followed by a short overview presentation by Mr. David and Mr. Kahn. We will then take the short walk to the new station for the pre-opening tour. The cost of the luncheon will be \$18.00. For reservations, please contact **Greg Yates**, at (215) 923-5077, as soon as possible.

**PHILA. SECTION, ASCE
OFFICERS 1994-1995**

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William T. Thomsen

PRESIDENT-ELECT

William G. Richards

VICE PRESIDENT

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President - William T. Thomsen

Urban Engineers, Inc.

Penn Mutual Tower, Suite 1680

530 Walnut St., Phila., PA 19106

(215) 923-5077; fax (215) 923-5611

Secretary - Gregory R. Yates

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THE PRESIDENT'S MESSAGE

The year has gone by very quickly. As we enter April, thoughts for the Phila. Section's new Officers are with me. This is my last Message to you and it has been a pleasure having the opportunity to serve the Phila. Section as your President. I have learned much about our Section and I am confident that ASCE is healthy and will continue to be a positive influence on our Society. This does not mean that there are not changes in store — there are. But with change come new opportunities for Civil Engineers to exhibit the creativity and intellect that resides in many of our professionals. We must become more active in society and provide the resources of our problem solving and analytical skills to benefit the general

public. In order to do this we also must communicate better with the public on important issues. We will look for greater emphasis on Engineers' communication skills in the future.

Looking back on the goals we set out to accomplish last May:

1. **Consistency** — We developed a regular meeting place and time. I believe it contributed to good attendance at our Section meetings.

2. **Membership** — We developed a fax network of Civil Engineers that assisted in getting the message out on our activities.

3. **Program** — The programs were outstanding! Much planning went into the year's events. We received help this year from the Section Officers, Technical Group and Committee Chairs. We combined Moderated Panels and Tours to offer the Membership a great mix of events that covered the broad range of our disciplines. We are starting a new special "Focus" on our agencies, firms and educational institutions during each meeting. And as I write this, much effort is being put into two of our final banner events, the Annual Spring Dinner Dance and Golf Outing. (I look forward to seeing you there!)

4. **Communications** — **Sid Robin**, the Editor of THE NEWS, produced the finest set of newsletters ever! We have expanded to add columns on Member Profiles and Legislative issues. We are looking for contributions from the entire Section. If there is one thing that is most apparent from my year, it's that Sid is the glue that holds our entire Section together with all our diverse activity. Sid has provided this service to the Section for many decades, and we all owe him a tremendous debt of gratitude. Please stop and say thanks next time you see him; or better yet, offer to help!

5. **First Annual ASCE Golf Outing** — NOTE: The Outing will be held on **May 19, 1995**, at Westover Inn and Golf Club in Norristown. Come socialize and see your fellow Civil Engineers in a different environment. Advertise your firm or organization and sponsor a hole.

There were also a few unexpected accomplishments of note:

- **RAILWORKS** — This project won the OCEA Award of Merit and the Section held a fitting celebration. Kudos go to **Chris Rood** for organizing the grand celebration.

- **Harry M. Perks, P.E.** — ASCE's nominee for the Delaware Valley Engineer of the Year, won! Harry will represent the engineering profession in an excellent manner and make us proud that a Civil Engineer has been selected to speak for all engineers throughout this year.

- **Institution of Professional Development Hours (PDH)** — PDH's were recorded for all Section activities recognizing that this may become a requirement for future registration renewal as it has in numerous other states. The Phila. Section chose to lead other societies and even ASCE National on this important policy initiative.

In closing, I can only stress that it is important for Civil Engineers to play an active role in the National Society and on public issues. More Civil Engineers should become politically involved, if they are so inclined, and provide meaningful contributions on public policy issues. Outstanding leaders like **Chuck Pennoni**, who has taken on the responsibility as President and CEO of Drexel University, exemplify what Civil Engineers in both public and private settings can accomplish. Also, many other executives from our educational, public and business institutions should lead, through their involvement in our Society on a State, Local and National level, in addressing matters of importance to the engineering profession.

THANKS to all my fellow Officers, Committee and Technical Group Chairs, speakers and supporters; but mostly to the Membership who participated in our Society. This has been an extremely rewarding experience that I am sure will contribute to my career as a Civil Engineer. Good luck to **Bill Richards**, our incoming President!

Sincerely,
William T. Thomsen, P.E.
President, Phila. Section, ASCE



LEGISLATIVE CORNER

The Philadelphia Section of ASCE is pleased to announce the resumption of a column in THE NEWS, entitled "Legislative Corner". **Mark S. McKain, Esq.**, will author the column, which will focus on current and pending legislation of interest to design professionals. The column will also address legal issues that design professionals encounter in their practices. The column will debut in the next issue of THE NEWS.

Mr. McKain is an associate with the law firm of Powell, Trachtman, Logan, Carrle & Bowman, P.C. His practice is concentrated in representing architects, engineers and construction litigation. He received B.S. degrees from Temple University, College of Engineering and Architecture, in 1983 and 1984, and his J.D. degree from Temple University, School of Law in 1988. Prior to practicing law, Mr. McKain worked as an Civil Engineer for Amman & Whitney Penna., Inc. and SEPTA. He is a registered Professional Engineer, an active member of the American Society of Civil Engineers, and a Construction Industry panel member for the American Arbitration Board.

1995 SPRING GOLF OUTING

The first annual ASCE — Philadelphia Section Golf Outing will be held at the Westover Inn & Golf Club, Jeffersonville, PA (just outside Norristown) on **Friday, May 19, 1995**. The cost will be \$60.00 per person and includes greens fee, cart and dinner afterwards. People are welcome to attend either the golf outing alone or dinner alone. The cost for just golf is \$35 and the cost for only dinner is \$25. There will be prizes awarded at the dinner for finishers in various categories.

If you are interested in participating please call **Urban Engineers** at (215) 923-5077 and ask for **Janet** by **April 21, 1995**. If you don't have a foursome, call with your name and additional foursomes will be arranged. This will be a great opportunity to relax (hah!) and network with other ASCE members that you only see at meetings. Depending upon the level of interest, we may be able to arrange for a shotgun start (requires approximately 100 golfers). If we don't get the required number for a shotgun start, tee times will be assigned on a first come, first served basis.

We are also looking for companies to sponsor holes as a means of getting their names in front of their clients. The cost for sponsoring holes will be \$50 and sponsorship of holes can be arranged by contacting **Janet** at (215) 923-5077 as well.

We are hoping for a fantastic day in May. Let's all make this first ASCE Golf Outing a hit and attend! This will be a warm up for those warm summer days ahead. Directions will be FAXED upon reserving your spot.

April Meeting

(Continued from Page 1)

employees; the total Airport employee population is 9,000. Currently, a major one billion dollar construction program is underway to improve and expand both the airfield and the passenger termi-

nals. These projects include a new runway, consolidation of Terminals B & C, new modern and reasonably priced retail concessions, and a new Marriott hotel.

Prior to becoming Philadelphia's Director in 1993, Ms. Loney was Deputy Executive Director,

Finance and Administration, for Dallas/Fort Worth International Airport (world's second busiest airport), First Deputy Commissioner of Aviation for the city of Chicago in charge of operations of O'Hare International (world's busiest air-

(Continued on page 6)

*Editorial***THE THOMSEN PRESIDENCY –
EMERGENCE OF LEADERSHIP**

He probably doesn't remember the incident, but some years ago, Bill Thomsen and your editor were walking down the hall together to attend the Phila. Section, ASCE, meeting after the Board of Directors Meeting (Bill was a Section Director at the time). Bill was commiserating himself about the rigorous paces his superior at Urban Engineers, Inc. was putting him through (I absolutely refuse to mention that the name of the culprit was Jim McPhillips!).

Now, Bill Thomsen is himself a Superior at Urban, and in position to inflict the very same "paces" to his charges. But he does not take advantage of his office simply to crack the whip. Instead, he has proved that it is *Leadership* that spawns the same desired results even better than authoritative severity. It is the emergence of this great quality, in concert with his pre-eminent character, which have transcended the most optimistic expectations of his peers at the Phila. Section, ASCE, when he ascended to the highest office in May, 1994 — a tenure which terminates with the inauguration of a new Section President at the Annual Dinner Dance at Sugarloaf on May 5, 1995.

This month's President's Message in THE NEWS succinctly summarizes Bill Thomsen's agenda as he first enunciated it when he assumed office. He will be the first to acknowledge that all of his ambitious goals were not fulfilled. But he is obliged to apologize to no one that achievement of his objectives was not substantial and effective. It is notable that several programs which Bill initiated will take effect after he leaves office. What a wonderful legacy! But we are sure that he will be around and active in the Section to help carry them out under future administrations. His discharge of presidential obligations are manifest in many ways: his effective and no-nonsense conduct of the Board of Directors and regular monthly Section meetings; his active participation in the planning of the high-caliber Section meetings, especially the Joint Meetings with other Professional Societies, working hand in hand with the hard-working staff of Technical Group Chairs and Committee people and fellow officers; his restoration of some fading Section programs and creation of new ones, which will be inherited by incoming administrations... on and on with initiatives which can only contribute to the maintenance and enhancement of the stature and prestige of the Phila. Section, ASCE, as a prime Professional Engineering organization throughout the Delaware Valley, and recognized by national ASCE Functionaries as one of the most outstanding and progressive Sections of the 130,000 member Society.

Bill Thomsen's professional administrative expertise is no accident. From the time of his graduation in 1978 from Clarkson College of Technology, Potsdam, NY, with a B.S. Degree in Civil/Environmental Engineering, and earning an M.S. Degree in Engineering Management at

Drexel University in 1985, his career has embraced responsible charge in major transportation projects, before and after joining Urban Engineers, Inc., where his current position is Manager, Transportation Division including: railroad line facilities throughout the United States; construction phase activities for the systems contracts on the Philadelphia Airport High Speed Line for the City of Philadelphia; the Philadelphia Center City Commuter Rail Connection; The Philadelphia Trolley Feasibility Study, which encompassed the economic and engineering feasibility of instituting Light Rail Transit System (including bus, street car and light rail operations) service over 22 miles of four separate routes throughout the City of Philadelphia; the Newark, NJ Waterfront Connection; Project Management Oversight Service on the Baltimore, MD Metro, for the Federal Transit Administration; Miami Valley Regional Transit Authority Rehabilitation Program; and numerous other major projects in cities throughout the United States, in addition to Philadelphia.

With such a background of experience and professional accomplishment, it is not surprising that he has performed admirably as President of the Philadelphia Section, ASCE, where he has participated for many years in important official positions, including several terms as Chairman of its Transportation and Urban Development Group. He also has served as Secretary of ASCE District 4 Legislative Affairs Committee; and as a member of the National ASCE Committee on High Speed Ground Transportation Systems. Bill is a registered Professional Engineer in PA, NJ, MD and OH, and is a member of APTA, AREA, SAME and NYRR Club. In 1993, Bill Thomsen was named Phila. Section, ASCE Transportation Engineer of the Year.

The thrust of Bill Thomsen's tireless energy has been manifest in his guidance of the Section's Technical Groups, helping them to maintain and enhance their vitality. He is responsible to a major degree in restoring the viability of the Younger Member Forum. Bill has endeavored to keep alive (often in the face of apparent indifference or non-cooperation by the schools themselves) participation in Section affairs by the District 4 ASCE Student Chapters of area Civil Engineering schools. He has kept abreast of the activities of the Phila. Section Reading Branch, and has invited them to join us in all our functions.

Probably, Bill Thomsen's most noteworthy contribution to the Phila. Section, ASCE, during his presidency, is that he has honored, continued and enlarged the policies of his predecessors in the office. Also, he has listened to, abided and accepted the ideas, advice and suggestions of his fellow Officers, Technical Group and Committee Chairs, who have loyally served with him.

Bill, you have contributed immeasurably to the Phila. Section, ASCE's progress and high recognition. We are sure that your talents will not be lost to us because of the end of your presidential term, and that your presence and expertise will continue to pervade all the programs and functions of the Section for countless years to come. We honor and applaud you for a splendid performance!

MEMBERS IN THE NEWS**VanOcker New ACI President**

At their January 26, 1995 Annual Meeting, the Delaware Valley Chapter, American Concrete Institute (DVACI) installed **David A. VanOcker, P.E.**, as President for 1995. Dave is a former Phila. Section, ASCE Director and long-time active member, including several terms as Chairman of the Section's Structural Technical Group. He is a Principal of the firm of Christakis & Kachele, Structural Engineers, Upper Darby, PA. He has served as Adjunct Professor in Structural Steel and Reinforced Concrete Design at Spring Garden College, where he received his B.S. Degree in Civil Engineering. A Registered Professional Engineer in PA, NJ and DE, Dave holds a National Council of Examiners of Engineers and Surveyors (NCEES) Certification. His areas of expertise include: failure investigations; concrete and masonry repair for parking structures and building facades; dynamic analysis of equipment foundations and frames; as well as special post-tensioned building frames and foundation systems.

The Phila. Section, ASCE, extends its congratulations to Dave on the high honor he has received from ACI.

Dr. Woodring Retires

After 39 years of faithful service as a student, teacher, administrator and "legend" synonymous with Drexel University engineering education, **Dr. Richard E. Woodring**, Civil Engineering graduate at Drexel in 1954, is retiring. Over the years, Dr. Woodring has worn a number of hats at Drexel: Professor; Civil Engineering Department Chairman; Associate Dean and Dean of the College of Engineering; and Vice President for Student Life. During his tenure as Dean, nearly 8,400 students have earned engineering degrees.

Among his countless contributions to the University, Dr. Woodring played a pivotal role in increasing minority recruitment in engineering, as a co-founder of Philadelphia Regional Introduction for Minorities to Engineering (PRIME). The Phila. Section, ASCE, extends its heartiest wishes to one of its most distinguished members on his well-earned retirement from active teaching and administrative service at the college to which he has been so devoted through the decades.

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And now, **William G. Richards**, we await your ascendancy to the Presidency of the Phila. Section, ASCE for 1995-1996. Your associates are well familiar with your abilities from your many years of Section membership and performance. Your editor especially knows and appreciates the great help you have been as Associate Editor of THE NEWS. Your new fellow Officers, Board of Directors, Technical Group and Committee Officials, as well as the General Membership, extend their hands and energies to help you. **Good luck!**

MARCH DINNER MEETING

March 9, 1995

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

The Middle Creek Abatement Project

By Bill Richards, Associate Editor

The March Meeting of the Phila. Section, ASCE, held with the invited participation of the Phila. Chapter, PSPE, attracted a good attendance from both organizations. The topic was: "The Sun Company Middle Creek Abatement Project," an environmental abatement effort being undertaken by Sun Company, Inc. at its Marcus Hook Refinery. Principal speakers were: **Charles D. Barksdale, Jr., P.E.**, Corporate Consultant, Environmental Affairs, Sun Company, Inc.; and **Richard H. Hartzell**, Project Manager, Sun Company, Inc. Middle Creek Abatement Project. Phila. Section President **William T. Thomsen, P.E.**, presided, ably assisted in audio-visual support by Section Assistant Secretary **Sean Markey**.

Following the social hour and an excellent dinner, President Thomsen opened the meeting with a short business session. He presented the 1995-96 slate of Officers and Directors for the Membership's consideration. Volunteer members were sought who would be willing to serve as judges at the 1995 Delaware Valley Science Fair. A new Civil Engineering "Focus" was described which will consist of displays during the cocktail hour at Section Meetings by participating firms, agencies, and suppliers who wish to present their projects, products or activities to the membership. Finally, Bill announced the upcoming Annual Spring Dinner Dance and the Golf Outing. All of these activities are further described elsewhere in this issue of THE NEWS.

Villanova University Night

The meeting honored the ASCE Student Chapter, Faculty and Alumni of the Civil Engineering Department of Villanova University, which was well represented by students and alumni at the meeting. ASCE Student Chapter Faculty Advisor Frank Falcone, Adjunct Professor of Civil Engineering, thanked the hosts for their courtesies, and described the dynamic Civil Engineering program at Villanova. He highlighted in particular a Middle School Program, in which Student Chapter members reach out to 5th to 8th graders regarding what Civil Engineers do, and help the youngsters in model-bridge building projects, displays and discussion to stimulate engineering interest. **Chris Scharf**, a member of the Student Chapter, who is Student Project Manager of Villanova's entry in the Concrete Canoe Race Competition, described the Chapter's efforts in planning and execution of its entry into this year's races. He also acknowledged the student Chapter Officers: President, **John Zambrano**; Vice President, **Pete Cokonis**; Secretary, **Michael Ciocco**; Treasurer, **April Mulich**; Engineers Join Council Representative, **Matt Russo**; Activities Coordinator, **Matt Baldwin**. Chairman of the Civil Engineering Department at Villanova is **Dr. Lewis Mathers**, Professor of Civil Engineering and an active member of the Phila. Section, and long-time former Faculty Advisor of the ASCE Student

Chapter. **Chris Scharf** described the busy agenda of the 55-member Student Chapter. In addition to the Concrete Canoe Race preparations, the Chapter engages speakers for its meetings, representing Consultants, Land Developers, Contractors, U.S. Corps of Engineers Officials, etc.

The Sun Company Project Featured

After acknowledging the presence of **Dr. Fred C. Schmitt**, prominent Phila. Section, ASCE Director and current President of the Phila. Chapter, PSPE, Phila. Section President Thomsen introduced the featured speakers of the evening: **Charles D. Barksdale, Jr., P.E.**, and **Richard H. Hartzell**, both of the Sun Company, to make the feature presentation on the Marcus Hook Refinery's Middle Creek Abatement Project. Mr. Barksdale is a Corporate Consultant for Environmental Affairs for Sun Company with which he has been affiliated since 1989. He holds a B.S. Degree in Chemical Engineering from Drexel University, and an M.E. from Widener University. He was an Environmental Engineer with BP Oil Co. before joining Sun, and has served in several environmental engineering capacities at a number of Sun refineries until his present assignment as Corporate Consultant on RCRA and other hazardous waste issues. Richard is Project Manager of the Middle Creek Project and has been with Sun since 1965. He has a B.S. Degree in Mechanical Engineering from Drexel University and has served as Project Manager for many multi-million dollar design and construction projects for Sun.

Evolution of the Project

Mr. Barksdale began by describing the environmental regulatory aspects of the Middle Creek Project. Located at the Marcus Hook Refinery, Middle Creek was historically the remains of a stream which had its flow diverted around the refinery, but which continued to drain stormwater and process waste from inside the refinery. It was dammed at its end, with flow pumped into an impoundment for treatment and disposal at the DELCORA wastewater treatment plant. Subject to receiving both process wastes and stormwater, the soils beneath and adjacent to Middle Creek became contaminated and subject to environmental regulations. Chuck walked the audience through the alphabet soup of environmental regulations; RCRA; TC (Toxics Characteristics rule); NESHAP (National Emissions Standards for Hazardous Air Pollutants); DER's PK-4; and BTEX (Benzene, Toluene, Ethylene, and Xylene) regulations.

Design Requirements

The eventual clean-up design had requirements to treat the soils under the creek as a landfill and to provide a cap; to separate stormwater and process wastewater; to contain volatile emissions; and to convey, treat, and store the waters before discharge to the DELCORA facility. This

was complicated to a great degree by the potential stormwater to dry-weather flow ratios of up to 60:1. Process flow treatment requirements were for about 5000 gpm, with separation of oil and grease, pH adjustment and settlement, before discharge to DELCORA.

The selected design, now nearing completion of construction, called for a concrete stream channel, ten to fifteen feet in width, with a 42 to 78 inch process water pipe within it, maintaining both flows within the Middle Creek streambed, but both confined and separated. The soils to both sides of the concrete channel will then be capped by a geosynthetic material, in effect "closing" the soils below the old creek under both the synthetic and concrete cap. A blanket system also contains vapors during times of storm events.

The centralized treatment facility replaces the many former isolated oil/grease separators, which were hard to maintain, with one. Separation is followed by pH treatment and settlement and emission controls. Surge tankage to handle storm flows has been added, including two new 15-Mgal tanks in addition to the refurbished 13-Mgal tank that had been present.

Construction Challenges

Mr. Hartzell described the construction phase of the project. Construction has presented a singular challenge because refinery operation had to be maintained while construction was ongoing. This meant management of water flow through bypasses while constructing the system. This was particularly difficult during the severe weather conditions of the 1993-94 winter. Required wastewater standards also had to be maintained for discharge to DELCORA, even when separators were being replaced. Health and Safety requirements for workers in and near the solid and liquid wastes required additional training and personal protective gear and clothing. There were limits on soil disposal, and no spillage could be tolerated. In all the project has taken almost five years to complete, with the final capping and a large sump being the major items yet to finish. The final price tag is about \$130 million.

Discussion Period

There were many excellent questions and comments from the audience, to which our two distinguished and knowledgeable speakers provided equally informative responses. President Thomsen congratulated the speakers on their presentation, thanked them for their time in educating our audience, and presented them Section gifts of appreciation. Sun made available brochures on their environmental commitment, particularly on their acceptance of the CERES (Coalition of Environmentally Responsible Economies) principles, making Sun the first Fortune 500 firm to do so.

On behalf of the Officers and Board of Directors of the Phila. Section, ASCE, the Editor and Staff of THE NEWS extend best wishes for Happy Spring and Summer Seasons to the Membership, and we look forward to seeing you in the Fall when the 1995-96 Meeting Season begins!

PHILADELPHIA SECTION CIVIL ENGINEERING "FOCUS"

ASCE Phila. Section will initiate a special "Focus" on Consulting Firms, Agencies or Manufacturers at their monthly meetings. This will occur through the use of Presentation Boards or Exhibit Materials focused on the capabilities of agencies and firms on the unique characteristics of projects that have been undertaken in the Philadelphia area. We look forward to these presentations as an opportunity to meet the engineers throughout our community and gain a better understanding of current and new projects or technologies.

We will provide a limited space to those who would like to volunteer to set-up a presentation which will be of interest to the Society. We will make every effort to provide as much diversity as we can. If you are interested call the **Hotline (215) 934-3639**.

The following are the criteria for ASCE's Civil Engineering FOCUS:

- The company, supplier, manufacturer or agency must be actively working or supplying within the greater Phila. area.
- Presentations shall be limited to information describing the firm, agency, and Civil Engineering project or Civil Engineering aspect of a project. Presentations displaying new or innovative aspects of Civil Engineering are preferred.
- Agency presentations shall focus on their scope of authority, current projects of future plans. Manufacturer presentations shall display new and innovative product lines.
- Presentations shall be limited to information which can be visually presented on boards which are not greater than 10 ft. wide.
- Presenters shall be limited to one presentation every two years, unless the Section's Board of Directors believes additional presentation offers a significant contribution to the membership.
- Presentations will be scheduled as time and space permits, generally on a first come, first serve basis. We will, however, limit the presenters to a maximum of one agency, one consultant, one manufacturer, or supplier per meeting. This is intended to limit the potential for a competitive environment. Some effort will also be made to coordinate presentations with speaker topics.

Members In the News

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Dr. Koerner to Lecture at IDEA 95 Conference

Phila. Section ASCE Past President (1975-1976) **Dr. Robert M. Koerner, P.E., H.L. Bowman Professor of Civil Engineering and Director of the Geosynthetic Research Institute (GRI), Drexel University**, will be a featured speaker at IDEA 95, the International Nonwovens Conference and Exhibition, at the Pennsylvania Convention Center, Center City, Philadelphia, PA, **April 25-27, 1995**. Dr. Koerner's subject will be: "Geotextiles: Use in Waste Containment Systems and Soil Stabilization."

SOLID WASTE CONFERENCE Call for Papers

A major International Conference on Solid Waste Management will be held in Philadelphia on **November 12-November 15, 1995**.

Papers related to *all aspects* of solid waste technology and management are of interest.

A one-page abstract (in English), to be received no later than **April 21, 1995** should be sent to the following address: **Dr. Ronald L. Mersky**, Program Chairman, Department of Civil Engineering, Widener University, One University Place, Chester, PA 19013-5792, USA. Phone: (610) 499-4042, Fax (610) 499-4059.

Authors will be notified by May 1, 1995, concerning acceptance or non-acceptance of submitted abstracts. A discounted Conference registration fee will be available for authors of papers accepted for presentation.

Papers presented at the Conference will be reviewed for possible publication in the Journal of Resource Management and Technology.

The IDEA 95 Conference and Exposition is sponsored by INDA, Association of the Nonwoven Fabrics Industry. Five thousand manufacturers and buyers from more than 50 countries are expected to attend. For full information and registration, contact INDA, 1001 Winstead Drive, Suite 460, Cary, NC 27513, phone (919) 677-0060, fax (919) 677-0211.

April Dinner Meeting

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port), Assistant Director of Aviation for San Jose International Airport and Albuquerque International Airport, and Airport Services Manager for McCarran International Airport in Las Vegas. Ms. Loney began her career in the aviation industry marketing air tours of the Grand Canyon for Grand Canyon Airlines. She holds a Masters Degree in Public Administration (MPA) from the University of Nevada and a Bachelor of Arts Degree (BA) from the University of Pittsburgh.

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