

the news



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AMERICAN SOCIETY OF CIVIL ENGINEERS
P. O. Box 58186, Philadelphia, PA 19102-8186

Vol. 64-6

Our 78th Year

May, 1992

!!HERE IT COMES!!

The Event We've All Been Waiting For!

The Fabulous Annual Dinner Dance

Saturday, May 16, 1992

at Catalina Restaurant

Korman Suites, 20th & Hamilton Streets
(Just South of Spring Garden Street • See Location Map on Page 2)

FREE Parking on Premises

6:30 PM Cocktails (Cash Bar)

Hot & Cold Hors d'Oeuvres

7:30 PM Dinner

Choice of Filet Mignon or Salmon Steak

Music for your listening and dancing pleasure provided by
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Call or send for your tickets today... guests welcome! • \$42.00 per person
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Please make check payable to "Phila. Section, ASCE" and mail to:
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Confirmations will be mailed after check is received.

Please indicate entree choice(s).

ENJOY YOUR SUMMER!!

On behalf of the Officers and Board of Directors of the Philadelphia Section, ASCE, the staff of THE NEWS extends to all the Members and their families best wishes for healthy and pleasant Spring, Summer and Fall seasons.

We look forward to seeing you all at the first meeting of the Section's 1992-1993 season. Watch for the first Fall issue of THE NEWS.

Editorial

PRESIDENT GOUDA – THE GREAT INNOVATOR

New ideas, innovative initiatives... these are the ethos and the credo of the distinctive presidency of Moustafa A. Gouda, Philadelphia Section, ASCE, 1991-1992. His modest "President's Messages" which have appeared in the monthly issues of THE NEWS, camouflage this man's inexhaustible energies and insatiable aspiration to raise the stature of the Section to ever higher planes of professional excellence.

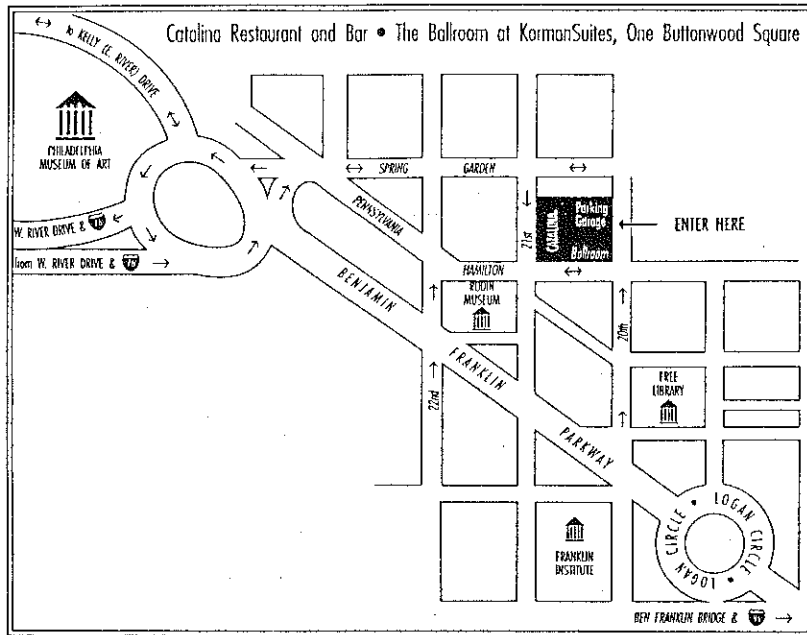
The second sentence of his President's Message in the first issue of THE NEWS of his tenure (October, 1991) reveals his intentions: "Now it's time to get down to business," he said. Surely, resolutely, get down to business he did. Moustafa would be the first to acknowledge that he did not achieve all of his goals. No President can do all that he or she aspires to in one short term.

But his accomplishments are many, and they will be lasting. In the final President's Message of his term (elsewhere in this issue), Mr. Gouda lists some of his realized ambitions. As he promised at the outset, exciting and innovative plans for the 1991-1992 year were put in place. The list in his latest Message confirms these testaments.

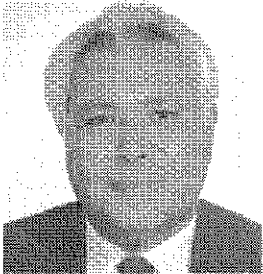
Moustafa's leadership qualities, manifest in his term as President, is a natural outgrowth of his admirable self-made background in achieving a splendid education; and in a few short years after coming to the United States as an immigrant, establishing and heading one of the most respected Geotechnical Engineering firms in the East. He has affirmed his dedication to the National ASCE principle: "A People Serving Profession," a dictum to which he ascribes even in his personal and community life.

Mr. Gouda has kept a watchful eye on the Section's Technical Groups, helping them to maintain and enhance their vitality. He assisted meaningfully in the restoration of the Younger Member Forum as a viable Section affiliate. The Special Task Committees he reviews in his Message should have lasting influence in the legislative and parlia-

(Continued on Page 2)



LOCATION MAP TO CATALINA RESTAURANT



THE PRESIDENT'S MESSAGE

This is the final issue of THE NEWS for the current year, and my last opportunity to communicate with all of you through the newsletter. This year has been a very busy one for our Board of Directors. The Board has been active as rarely before. This year, the Executive Committee, the Constitution and By-Laws Committee, and the full Board membership met more than 20 times. What did we accomplish this year that required all these meetings?

1. We established a Luncheon Meeting to be held each September, with the Philadelphia Section Civil Engineer of the Year as the guest speaker.
2. One Dinner Meeting per month was held as usual. Our traditional Joint Meetings with ASHE, ASCE South Jersey Branch and SAME at the Navy Yard were continued.
3. Two new traditions were established: a) Past Presidents' Night attended by 17 past presidents; and b) Spouse Night in which over 60 individuals, couples and guests enjoyed a three-hour cruise (in the snow!) on the beautiful Delaware River.
4. Our Constitution and By-Laws were updated and revised to suit our needs.
5. The Operation Manual was uncovered, dusted off and brought back to life.
6. Our Technical Groups continued as strong as ever.
7. The Section has also been in the forefront of all the legislative issues which affect the civil engineering profession.
8. The Section still takes an active part in "Engineers Week."
9. More Section members are serving on National ASCE Committees than ever before.
10. Our College Scholarship Fund is alive and thriving.

Leaving office in May 1992 will be very emotional for me. It has been an honor for me to serve as your President, and I promise to be an active Past President and continue my relationship with the Section. As a matter of fact, I have called for the establishment of a Past Presidents' Council to be comprised of all Past Presidents residing in the Philadelphia area. Thus can we put their extensive talents to good use.

There are many individuals who made the continued success possible for our Section, and they deserve special thanks from me. These people are the backbone of the Section., My thanks extend to all the Board Members and Officers. A special thanks to **Klaus Fuelleborn** and **Bob Wright** for their help and support during the past year. In all honesty, without Bob Wright, I don't know what we would have done. He is devoted and always there. Bob, thank you. ASCE is proud to have you as a member. Special thanks to our Constitution and By-Laws Committee, **Fred Plotnick**, **George Stanley** and **Bob Wright**. To our Award-Winning Chairman of Publications, and Editor of THE NEWS, **Sid Robin**. Sid, I take my hat off to you and to your enthusiasm. May God bless you and give you the energy needed to continue to keep up with our needs. Finally, to **Frank Depman**, our immediate Past President, my best wishes for a full recovery.

Last, but not least, my best wishes extend to all the departing Board Members and to the incoming ones. I plan to work with you and I trust that you will carry the Section's flag and move forward to make our Sections No. 1 in the Nation.

Sincerely, Moustafa A. Gouda, President
Phila. Section, ASCE

President Gouda

(Continued from Page 1)

mentary procedures of our organization. Moustafa maintained keen interest in the District 4 ASCE Student Chapters of area colleges, and he has diligently endeavored to recruit the graduating students to become continuing Active Members in the Philadelphia Section. The Reading Branch of the Section has been recognized as an important adjunct in all Phila. Section affairs.

Recently, the Section's Board of Directors, on behalf of itself and the General Membership, expressed its sentiments on Moustafa's unstinting leadership and dedication by endorsing him as the Section's nominee for Delaware Valley Engineer of the Year — the prestigious honor to be awarded in the Fall by the member Societies of the Engineering and Technical Societies Council (ETSCO).

The Philadelphia Section inherits from Moustafa Gouda more than the legacy of his
(Continued on Page 6)

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"THE LIBERTY BELLE CRUISE" - A Resounding Success

The surprise early Spring snowstorm notwithstanding, about 60 Phila. Section, ASCE members, their spouses, families and guests enjoyed an "out of the ordinary" monthly Dinner Meeting on March 22, 1992. It was a "Cruise Down the Delaware River" on the picturesque Liberty Belle II party boat at Penn's Landing. The trip highlighted "Spouse Night," one of Moustafa Gouda's most cherished enterprises of his innovative presidency.

The river was calm, even during the storm; the ambience on the boat was warm and friendly; and President Gouda was the consummate host, visiting every table during the 3-hour trip.

Yanev Speaks

After welcoming remarks and a few yarns and repartee, Moustafa presented Past President **Al Tantala**, who introduced the speaker he had especially contacted for the occasion: **Bojidar Simeonov Yanev** (his friends call him "Yanev"), the "aerialist with a Ph.D." In the line of duty of his job as Chief Bridge Inspector for the New York City Department of Transportation, Yanev has spawned unusual and almost comical situations during the performance of his work. Many times he has aroused terror in observers on the ground below him as he climbed the main cables of suspension bridges or the top chords of high truss bridges, in search of possible structural weaknesses. Police, fire and emergency medical vehicles and personnel have been summoned as ground observers erroneously concluded that the "cable climber" was about to jump and "end it all." "It's quite a nuisance," says Yanev, "but I have to cope with it and explain to the authorities that I'm just doing my job."

Yanev's talk, profusely illustrated with slides, began with an explanation of United States primacy in the context of world-famous masterpiece long-span bridges: such magnificent structures as the Golden Gate, the San Francisco Bay, the abundance of bridges in New York, Pittsburgh (the bridge capitol of the world), and the majestic structures of Philadelphia, including the Ben Franklin, Betsy Ross, Walt Whitman and Delaware Memorial Bridges.

In articulate and entertaining style, Yanev described his inspection responsibilities, and the necessary solutions he recommends to the structural problems his Department discovers. Most of the problems are functions of age (the average age of New York State Authority bridges is 28 years. But the New York City owned bridges (872 in number) are the most decrepit. They include various categories: waterway, land, railroad, etc., some dating back 100 years. The average age of the New York City bridges is 58 years.

Investigation and Preventive Maintenance Analyses

Yanev described the criteria to gauge the lives of bridges as a function of the funds spent on maintenance against rebuilding requirements or to restore structural integrity. He is ever mindful that he and his crew are the first line of defense against catastro-

(Continued on Page 5)

APRIL JOINT DINNER MEETING

April 8, 1992

Officers' Club, Phila. Naval Base

The Meridian Plaza Fire

An overflow audience of more than 150 Philadelphia Section, ASCE, and Philadelphia Post Society of American Military Engineers (SAME) members and guests enjoyed a delicious dinner and stimulating discussion of one of the most important engineering investigations and analyses in Philadelphia history. It is the Meridian Plaza Fire, the great tragic conflagration directly across from City Hall in Downtown Philadelphia, which has left the huge building threadbare and tenantless for many months. Principal speakers were: **David Wismer, P.E.**, Director, Bureau of Codes, Department of Licenses and Inspections, City of Philadelphia; and **Richard Rowe, P.E.**, Chief Structural Engineer, Kling, Linquist Architects/Engineers, Philadelphia, PA. Both speakers are experts in building damage analyses, and they have been intimately involved in the ongoing investigation since the fire, which will continue until conclusions are reached as to the future status of the building.

Phila. Section President **Moustafa A. Gouda** presided, since the Phila. Section was host. He and Philadelphia Post, SAME President **Lt. Col. Kenneth H. Clow**, U.S. Army, made introductory remarks and conducted necessary business of their respective Societies before Mr. Gouda introduced the speakers.

Mr. Wismer and the City Point of View

At the outset, Mr. Wismer announced that, of necessity, certain elements and aspects of the investigation, financial statistics and engineering analyses and prognostications would not be discussed because of the constraints of current litigation, involving many parties connected with the building design, construction, insurance and maintenance. These limitations clarified, Mr. Wismer began by describing the main dimensions and non-controversial elements of the building, and permit-issuance processes. It is a 38-story structure, 491 feet high, with 11'-0" story heights, and 800,000 square feet rentable floor space. A Certificate of Occupancy was issued in 1973 after the necessary building permits were received by the owners. Mr. Wismer explained the principal structural characteristics, including connections to the Mellon Building on the east; fire emergency provision; the dry standpipe system and other code-required firewater supply provisions.

The Fire Ignition and Spread Controls

Mr. Wismer recounted the initial activation of alarm systems, smoke detectors and the vicious progression of the flames. Nineteen hours after the point of ignition, the fire was declared under control. The cause of the fire has been determined to be spontaneous combustion of oily rags and other combustible materials carelessly piled in a storage room. The fire spread to an electrical control room on that floor, then vertically to the electrical control rooms one above the other. With little floor protection above the ceiling of the initially ignited control room, the fire spread progressively vertically to the other control rooms due to stack effect; although at this time, Mr. Wismer pointed out, the stack effect heat extension

has not been definitely determined. Consumption of the interior structure was extraordinary, and the heat temperatures were almost incredible.

Mr. Wismer described the sequence of extensions of water pressure to the high location of the fire, the emergency shutoff of City services (gas, electric) Fire Department connections in the area, and L&I Department involvement in the structural analyses to determine the safety of the structure.

Lessons to be Learned

Mr. Wismer stressed the outstanding value of sprinkler systems. The intensity of the Meridian fire was so great that structural elements almost inconceivably melted to ash. He touched upon - but would not elaborate because of the legal restraints - some possible infractions in the time element of reporting the fire; previous inspections of systems (electrical generators, management of housekeeping facilities from the time of initial construction, supervision of tenant alterations, safety and control of inflammable storage materials, etc.). Significantly, too, he noted the probable lack of permit application by the owners after completion of construction, to insure conformity with the building code, particularly the fire protection technology to address the needs of fire-fighting equipment. Understandably, Mr. Wismer anticipates that much detail remains to be evaluated and determined in the future.

Mr. Rowe Enunciates His Role

Richard Rowe, commissioned for the investigation through his firm, entered the building five hours after the fire was declared under control. The objective was to proceed with complex analyses and studies, in order to be able to decide "what do we do with the building?" Because fires of this magnitude do not occur often in commercially operating high-rise buildings, determinations of premises, conclusions of analyses, and recommendations for remedies are not easy to come by.

Structural Elements Illustrated

Mr. Rowe, obviously speaking within the same legal constraints as did Mr. Wismer, explained the principal structural frame elements and outer veneer components, including connecting links constructed to the adjoining Mellon Building for access to the burned-out areas of the Meridian. Slides showed the obvious and not so obvious damage which might contribute to overall evaluation of the structural integrity of the structure, including the principal concern of building elements movement due to the extraordinary fire temperatures. The slides exposed vividly the degree of destruction of structural members and components.

Decisions and Dilemmas

Mr. Rowe described the intricacies and perplexing dilemmas encountered in analyzing and evaluating the structural degradation of the conflagration. He delineated construction procedures in the progressive stages of structural stabilization, and demolition of irredeemably damaged members, masonry panels, walls and floor slabs. At present, he said,

(Continued on Page 4)

EMPLOYER RECOGNITION PROGRAM FOR YOUNGER MEMBER SUPPORT

Younger Member enthusiasm, meaningful involvement and growth are the keys to ASCE's future. As a means of fostering individual younger member participation in Society activities, the ASCE Committee on Younger Members (CYM) has developed a program to help Sections and Branches recognize those employers who encourage their young engineers to get involved. Special recognition will go to those organizations who exhibit exemplary support evidenced by efforts such as:

- Providing a model for involvement through company-wide participation in local, regional and national ASCE activities
- Allowing young engineers time off to attend ASCE meetings and seminars
- Supporting and encouraging technical and professional growth
- Encouraging young engineers to prepare articles for publication in ASCE professional and technical journals
- Assisting in the payment of local and national dues

KOERNER ELECTED ASCE HONORARY MEMBER

It has just been announced that **Robert M. Koerner** has been designated as an Honorary Member of ASCE. He is one of seven who will be inducted on September 16, 1992 in New York City at ASCE's Annual Meeting. (ASCE has named 400 Honorary Members in its history.)

Koerner holds his BSCE degree from Drexel in 1956 and spent his next 10 years working for a number of consultants, contractors and related Civil Engineering firms. Having a Master Degree in 1963, he packed up his terrific wife, Paula and with their three children went to Duke University for doctoral studies in 1965. The PhD was awarded in 1968, whereupon the Koerner's returned to Philadelphia and Drexel and have stayed ever since.

Bob progressed through the academic ranks attaining the Professor level in 1983. He taught Geotechnical Engineering while researching in Acoustic Invasions, Nondestructive Testing and in 1978 began a long, and very fruitful, association with Geosynthetics.

He is the co-author of the first book on geotextiles "Construction and Geotechnical Engineering Using Synthetic Fabrics" and has published 115 papers on geosynthetics in major engineering periodicals and at national and international conferences. His latest effort is the second edition of the textbook titled "Designing with Geosynthetics."

Professor Koerner is very active in areas of geosynthetic standards. He is a member of ASTM Committee D-35 on Geotextiles and Geomembranes, sub-committee chairman of all endurance task groups, and personally heads numerous task committees. He has been involved in a meaningful way with all national and many international conferences on geosynthetics. He is the immediate Past-President of the North American Geosynthetics Society.

He has presented ninety short courses on geosynthetics, ranging from a half day to three days, to engineering and technical audiences throughout North America. During this time period, Bob has been very active locally as well. He is Past-President of the Philadelphia Section in 1975-76, past Engineer-of-the-Year in the Delaware Valley.

In 1986 Bob founded the Geosynthetic Research Institute (GRI) at Drexel University. The organization now has 51 member companies and 12 full-time faculty, staff and students. He is currently the Director of GRI and the H.L. Bowman Professor of Civil Engineering. Readers are invited to see GRI located in the west wing of the Rush Building at 33rd and Lancaster Avenues.

Younger Members who want their organization to be considered for recognition will fill out a questionnaire which describes their organization's level of compliance with these guidelines. Sections and Branches, with the help of local Younger Member Groups, will forward meritorious submittals to CYM. After its review, CYM will prepare a list of exemplary employers, by Section and Branch. This list will be submitted for publication in Civil Engineering magazine or ASCE News. Sections/Branches will be encouraged to provide local recognition (for example, a certificate of commendation) to selected organizations.

Program Orientation

The program will operate as follows:

1. Award submittals will be received through Sections and Branches.
2. With the help of local Younger Member Groups, Sections/Branches will recommend exemplary organization for recognition.
3. Until 1994, CYM will review nominees and their submittals at its Fall meeting. This review will be for award consistency and to better define minimum standards. After 1994, the program will be turned over to the Sections/Branches for implementation on a local level.
4. For those organizations that meet award criteria CYM will:
 - a. submit a list of winning organizations for publication in Civil Engineering magazine or ASCE News; and
 - b. encourage Sections/Branches to provide winning organizations with local recognition.

NOMINATION FORM

Please fill out and return this nomination form to your Section/Branch President or Younger Member Group Chair. Completed forms should be sent to ASCE Headquarters, 345 East 47th St., New York, NY 10017, Att: Nancy E. Berson.

1. General Information

Name of Nominee: _____

Address: _____

Name of Nominator: _____

Title: _____

Submittal for Entire Organization or
 Local Office

April Joint Meeting

(Continued from Page 3)

mechanisms are under study which might be utilized to rebuild the structure. He emphasized the concern of all the parties involved in, or who have interests in, the investigation and rehabilitation work, about the safety of the construction workers employed in the removal of debris, shoring of lower floors, beam and column bracing, etc. Of prime concern, also, has been safety provisions in the process of replacement of members in impacted damaged areas, and reinforcement of structural systems, cladding, etc. which are still standing and are repairable.

Questions, Answers and Discussions

In conclusion, Mr. Rowe explained present survey procedures which could lead to reliable evaluations and estimates of percentages of structural and mechanical systems which will have to be replaced in the devastated and interrelative areas of the building.

Incisive, in-depth comments and questions were directed to the speakers at the conclusion of the formal talks. Understandably, the speakers respectfully declined to respond to some questions because of the possible legal contingencies. Comments and questions covered such issues as the options and provisions of regulatory and fire-prevention agencies of the modern day, compared to those of past decades. Both speakers admonished emphatically against complacency of designers, owners and municipal regulatory and licensing departments regarding strict enforcement of fire and smoke detectors installation, particularly in their cognance of the potential dangers of ignition in liquid storage areas.

Mr. Gouda thanked SAME for its courtesies in making available their splendid Officers' Club facilities. As in all past joint events of the two Societies, the meeting was exciting, technically educational and noteworthy.

II. Employee Distribution

How many individuals does the nominee employ? _____
How many are Civil Engineers: _____
How many are current ASCE members? _____
How many are local Section/Branch members? _____
How many are "Young Engineers" (32 years or less)? _____

III. ASCE Activities

For those employees who are members of ASCE:
How many Technical/Professional Seminars (1 day or longer) does each employee attend annually? _____
How many evening Section/Branch meetings are attended by each employee annually? _____
How many daytime Section/Branch meetings are attended by each employee annually? _____
How many employees are active on a Section or Branch Board? _____
How many employees are active on a Section or Branch Committee? _____
How many employees are active on an ASCE Regional Council? _____
How many employees are active on an ASCE National Committee? _____
Does the nominee encourage and provide time for employees to read journals and keep up to date with technology? _____

WANTED. ENGINEERS TO HELP BUILD THEIR SOCIETY.

To build a stronger society, ASCE needs resources that only you possess. Those resources are your skills to recruit other civil engineers who are not members of your professional organization.

By strengthening ASCE, you'll also be building your Section and/or Branch directly. With each "sponsored" member that you recruit, your Section will receive \$10 when membership growth exceeds 3%.

By participating in ASCE's 1991/92 MEMBER-GET-A-MEMBER DRIVE you can also help yourself. Recruit two members and receive a special ASCE mug. Recruit four members and we'll send you a distinctive pen. If you recruit eight new members, you'll receive an executive portfolio, designed to organize your papers at meetings, seminars and conferences. Also, whoever submits the most new members will receive hotel accommodations, air fare, theater tickets, and paid registration to ASCE's 1992 Annual Convention in New York City. Sponsored applications must be postmarked by July 1, 1992. Contact your Section or Branch, or call 1-800-548-ASCE. We'll send application kits for you to distribute. You've built a career...now help build a society!



1991/92 MEMBER-GET-A-MEMBER DRIVE



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NOW!

(See Page 1)

CHALLENGES IN A CHANGING WORLD ASCE 1992 International Convention and Exposition New York City, New York Hilton Hotel, September 14-17, 1992

Thousands of engineers from 43 nations and six continents, the cream of civil engineering talent worldwide, will be on hand for The American Society of Civil Engineers' International Convention and Exposition, set for September 14-17 at the New York Hilton Hotel.

For four days, the 1992 International Convention will stress the universal nature of the profession through a program of diversified sessions illustrating the global application of civil engineering in theory and practice. Papers will be presented by civil engineers from more than twenty countries on topics ranging from air quality to water resources. Major subjects to be addressed in more than 60 sessions are:

- | | |
|-----------------------------|---|
| Aerospace | Structural |
| Construction | Transportation |
| Earthquakes | Surveying and Mapping |
| Energy | Urban Planning |
| Environment | Waterways/Ports |
| Geotechnical | Global Competitiveness |
| Hydraulic & Water Resources | Professional/Management Issues Research |

Plus a Special Environmental Geotech Symposium has been added which will expand even further the broad range of interests this professional group brings with them.

Companions to Get Insider's New York View

If you've ever taken your companion to an ASCE Convention, the International Convention in New York will be the ideal time and place.

New York is marvelous in September, the theaters, the music and dance centers are in full swing as are the museums, the galleries and other major attractions. What's more the weather should be delightful and comfortable enough to permit extended outdoor touring.

For companions who like their tours guided, ASCE has arranged a total of 10 that will let you see the city as no one ever has before. They'll visit the Statue of Liberty and Ellis Island, tour Harlem including a visit to Grant's Tomb, Columbia University and the Cathedral of St. John the Divine — the largest Gothic Cathedral in the world, visit Greenwich Village, pick up bargains discount shopping on the Lower East Side, take a boat around Manhattan Island, visit the New York Stock Exchange... and much, much more.

Join us in September and find out what makes the Big Apple tick!

To: ASCE 1992 Annual Convention and Exposition
American Society of Civil Engineers
345 East 47th Street, New York, NY 10017

Please send complete registration and program information

Please send Exhibit Prospectus

Name _____

Address _____

City, State, Zip _____

Phone _____

Fax (212) 421-1826 or call 1 (800) 548-ASCE

Liberty Belle Cruise

(Continued from Page 3)

phe. Yanev's vivid slides clearly defined the rusting beams, cracking girders, steel reinforcing ruptures, and crumbling concrete decks which he must analyze technically to determine the severity of structural problems in "bad" bridges, and the degrees of danger and threats to public safety. He explained the Department's procedures to monitor the potential weaknesses.

New York's Old and Famous Bridges

Yanev reviewed — with slides and commentary — current serious structural problems of major New York City bridges: the Manhattan, Queensboro, Williamsburg, Brooklyn, George Washington, some as old as 100 years. He outlined his program for maintenance and restoration for all salvable bridges, major and minor, and phasing out of uneconomically salvable ones.

New York City being what it is, adds special significance to the difficulties of his job. "New York is where the action is in bridge decay," says Yanev, "... no other city in the world built so much and neglected so much." But he boasts that New York's data on how spans fall apart are unexcelled!

Dining, Dancing and Music

After Yanev's fine presentation, the passengers enjoyed a delicious dinner, danced or listened to romantic music and relaxed as the party boat made the return trip to port. It was a memorable afternoon and evening. Surely, it will be repeated in the future.



James L. Morrison, P.E.
Director of Pennsylvania Operations

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ASCE CONSIDERS ARCHITECTURAL ENGINEERING DIVISION

The Technical Activities Committee (TAC) has established a Task Committee to evaluate the feasibility of establishing an Architectural Engineering (AE) Division to serve the needs of members involved in the building design industry. The Committee will determine the scope of the proposed Division's activities, survey the membership to assess interest, develop a Division structure, and make recommendations to TAC for its implementation.

The establishment of the AE Division is being considered in recognition of the fact many civil engineers are directly involved in building design both as their company's or agency's primary activity, or as a supplemental part of a larger infrastructure program such as transportation or public works development. Many of the largest building design programs in the country are managed by civil engineers, such as the Naval Facilities Engineering Command and the U.S. Army Corps of Engineers. The proposed new Division will provide them with a forum to review, evaluate and advance the technology in the industry.

A key consideration in addressing this issue is a recognition that building design is a multidiscipline activity involving civil engineers, structural engineers, mechanical engineers, electrical engineers and architects. It is anticipated the Division will work closely with other technical societies through jointly managed specialty conferences and symposia to examine such facets as:

Programming – Evaluating a building user's operational and functional activities to determine optimum building configuration and layout.

Site Analysis – Analysis of environmental factors and adaptation to an appropriate site.

Cost Analysis – Techniques for relating the user's building needs to its budget capability to assure the final design is economically realistic.

Structural Systems – Consideration of established and innovative structural systems and their appropriate application to different building types.

Code Compliance – Development of approaches to compliance with the many federal, state and local building code requirements, and participation in refining and developing new standards.

Aesthetics – Sensitizing civil engineers to the importance of aesthetics in building design and working cooperatively with other disciplines on the design team to develop sound, practical solutions that results in good buildings making good neighbors.

Power, Lighting and Communication Systems – Working cooperatively with electrical engineers to better appreciate their needs.

Environmental Systems – Working cooperatively with mechanical engineers to understand their needs in designing heating, ventilating and air conditioning systems, plumbing and related mechanical systems for buildings.

Construction Methods – Joining with those in the construction industry to continually evaluate constructibility of design approaches and develop new techniques for reducing construction costs and speeding the construction process.

Many of the areas of interest to those in the building design industry are already being addressed by other ASCE Divisions such as the Structures Division and Construction Division. If established, the

Architectural Engineering Division would not duplicate these activities. The scope of the AE Division will be general. It will work cooperatively, as an example, with the Structures Division to maintain an awareness of the development of the structures technology.

Phila. Section ASCE members involved in the building design industry are invited to fill out the response form below and return it to the Task Committee.

ASCE ARCHITECTURAL ENGINEERING DIVISION PETITION

I am an ASCE member and I hereby petition the Society to establish an Architectural Engineering Division.

Name _____

Address _____

Telephone _____

My special interests are _____

Signature _____

Mail completed form to: AE Division Task Committee; American Society of Civil Engineers; Attn: John Griffin; 345 East 47th St.; New York, NY 10017.

President Gouda

(Continued from Page 2)

bountaneous contributions. It will be the beneficiary of his membership on the newly established "Council of Past Presidents." We look forward with confidence, therefore, to his dedication, talents and innovative input for many years to come. Moustafa, we salute you on a job well done!

And now, **Klaus Fuelleborn**, we welcome you as the incoming President for 1992-1993 when you are installed at the Annual Dinner Dance at the Catalina Restaurant on May 16th. Your winning personality and wit, your abilities and past accomplishments are not unknown to us during your many years of Phila. Section affiliation. You will find a cooperative Board of Directors and a receptive General Membership, all extending their hands and energies to help you. Good luck!!



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