



# The Drawingboard

## Queens Chapter

New York State Society of Professional Engineers

November 2006

Volume 6, Number 11

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@ 6:30PM
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Moody International
- PDC Lecture – Why Do Bridges  
Fail and How to Avoid Failures

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### President's Message

*By Brian Flynn, P.E.  
President*

The leaves are turning color and falling as the air turns crisper. The holidays must be right around the corner. Unfortunately the PDC's holiday party is still in the planning stages. Stay tuned for further announcements at the meeting.

In between the editions of the Drawing Board, our Editor Tony DiRuggiero was hard at work on another project. We wish to congratulate Tony and his wife Adriana for their new born son, Joseph Alexander.

The Queens Chapter NSPE 2006 Membership Journal is coming to a close. We need to update the professional services listing available to our members. If you have not already updated your listing, please let me know at the next meeting. The member listing in our directory is also being updated as needed. We are still looking for advertisements and need all of our members to reach out to all of your contacts for ads.

The NY State Society award nominations are due February 5th 2007. The awards are presented at the annual conference in July. Awards presented include Engineer of the Year, Citizen of the Year, Outstanding Professional Engineer in Management as well as other award categories. I urge you all to consider your fellow colleagues for these awards. A complete description of the awards is available at [NYSSPE.org](http://NYSSPE.org).

The NYC Building Department has seen the light. Opportunities abound in both employment and required professional services. The city is looking for a few good PE's and RA's for a large number of positions. The Department of Buildings is also hosting a Plan Examiners Job Fair to recruit registered architects and professional engineers on November 15, 2006 from 12 pm to 6 pm at Manhattan, 280 Broadway, 6th floor.

*[\(Continued next page\)](#)*

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The Building Department is also expanding its technical requirements for a number of construction procedures including scaffolding (Local Law 52), Excavations (Rule 52), Tower Crane Safety and Dry Wells (dry well audit program). The city is responding to the near epidemic levels of loss of life and property damage from construction activities. These programs are intended to protect the public and property, requiring additional input and verification by licensed professionals which is a welcome change. Thursday's meeting is sponsored by Unilock. Unilock is the premier manufacturer of paving stones and retaining wall components in North America. I look forward to seeing all of you there. I wish you and your loved ones all a Happy Thanksgiving.

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## Upcoming Meeting Information

### **Our Next Chapter Meeting**

***Thursday November 16, 2006 – 6:30 PM***

This month's sponsor is Unilock. Derek Pukash, Architectural Consultant will present Paving Stone Applications covering topics such as:

- Streetscapes
- Commercial Plazas
- Vehicular Traffic
- Paver Quilting
- Permeable Pavements
- Design Software

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### **Location:**

***422 Weaver Ave., Fort Totten, New York***

### Nominating Committee

John Zurita, P.E.	Chair (212) 788-8199
Sal Galletta, P.E.	(212) 788-8199
Gregory Georges, P.E.	(718) 274-4800
Michael Karantinidis, P.E.	(718) 726-2226

### Hotline for Members

Are you an NSPE member with a question about engineering ethics, licensure, or law? If so, call 888-285-NSPE (6773) or e-mail [legal@nspe.org](mailto:legal@nspe.org). Please provide your 9-digit NSPE member number.

### Chapter Seeks Donations to PDC Library

The Queens Chapter is still seeking donations of books for the Professional Design Center Library

Queens Chapter President Brian Flynn would like all to know that the Professional Design Center Library is still in need of Books, Magazines and other materials. The Queens Chapter is asking all members to donate any reference material, such as textbooks, catalogs and product literature that they can.

## Useful websites for Engineers:

<b>National Society of Professional Engineers</b>	<a href="http://www.nspe.org">www.nspe.org</a>
<b>New York State Society of Professional Engineers</b>	<a href="http://www.nysspe.org">www.nysspe.org</a>
American Institute of Architects	<a href="http://www.AIA.org">www.AIA.org</a>
American Engineering Alliance	<a href="http://www.aeaworld.org">www.aeaworld.org</a>
American Institute of Chemical Engineers	<a href="http://www.aiche.org">www.aiche.org</a>
American Society of Automotive Engineers	<a href="http://www.sae.org">www.sae.org</a>
American Petroleum Institute	<a href="http://www.api.org">www.api.org</a>
American Society of Civil Engineers	<a href="http://www.asce.org">www.asce.org</a>
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American Society of Plumbing Engineers	<a href="http://www.aspe.org">www.aspe.org</a>
American Welding Society	<a href="http://www.aws.org">www.aws.org</a>
Society of Petroleum Engineers	<a href="http://www.spe.org">www.spe.org</a>
Society of Fire Protection Engineers	<a href="http://www.sfpe.org">www.sfpe.org</a>
Institute of Electrical and Electronics Engineers, Inc.	<a href="http://www.ieee.org">www.ieee.org</a>
City of New York	<a href="http://www.nyc.gov">www.nyc.gov</a>
NY State Senate	<a href="http://senate.state.ny.us">senate.state.ny.us</a>
NY State Assembly	<a href="http://assembly.state.ny.us">assembly.state.ny.us</a>
NY City Council	<a href="http://nycouncil.info">nycouncil.info</a>
The White House	<a href="http://whitehouse.gov">whitehouse.gov</a>
Ed Turner Responsible Charge	<a href="http://www.responsiblecharge.com">www.responsiblecharge.com</a>

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## 2006 Chapter Meeting Schedule

### Mark Your Calendar

For your convenience the Queens County Chapter NYSSPE meeting schedule is provided below.

Directors' meetings and general meetings are held on the second and fourth Thursdays of each month except November and December meetings which will be held on the first and third Thursday of the month due to holidays. So mark your calendar. The schedule is as follows:

#### **Directors' Meeting** **(6:30 PM)**

#### **Membership Meeting** **(6:30PM)**

November 9, 2006

**November 16, 2006**

December 7, 2006

December 21, 2006

January 11, 2007

January 25, 2007

#### **Please Note**




The November General Membership Meeting will be held on **November 16<sup>th</sup>, 2006**

#### **Please Note:**





Members are advised that the Queens Chapter meeting on Thursday, November 16<sup>th</sup> will be held at our Fort Totten office. At the Fort Totten gate tell the guard you are a member of the P.E. Society and that your name is on the list that they keep there. Any non-members and guests not placed on the list will be denied entrance-If this happens the guest should ask the guard to call the phone number on the membership list. A board member will then come down to bring the guest in

## Professional Services Directory

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## Order Form

The Queens Chapter of the National Society of Professional Engineers will publish the chapter's 2006 Annual Membership Directory. Our members are found in key government agency positions, as well as senior and partner positions in private engineering firms, which design, specify and consult on Construction projects throughout the Metropolitan area. When they need to find a source for specific requirements they turn to their annual Queens NSPE Membership Directory. Now you and your firm can reach these key decision making individuals when they are looking for your services by placing an ad in the up coming 2006 Queens NSPE Membership directory.

Attached is an order form to place an advertisement in the 2006 Membership Directory.

In addition to our annual journal, the Queens Engineering Society Sponsors numerous events and seminars to further inform our members of the new developments in industry. We hope that you will help support our efforts. Please see the order form on the next page

**QUEENS COUNTY CHAPTER  
OF THE NEW YORK STATE SOCIETY OF PROFESSIONAL ENGINEERS**

**OFFICERS:**

BRIAN E. FLYNN, PE	GEORGE L. TAVOULAREAS, PE	JOHN SGOUROS, PE	FIL KEFALAS, PE
President	1 <sup>st</sup> Vice President	2 <sup>nd</sup> Vice President	Treasurer

Please reserve an ad as indicated below in the 2006 Queens Chapter Membership Directory.  
Enclosed is our check in the amount of \$\_\_\_\_\_ for the size ad selected below:

**(STANDARD AD POSITIONS (BLACK & WHITE ADS))**

- ☐ Full Page Ad (7-1/2" deep x 4-1/4" wide).....\$400.00
- ☐ One-Half Page Ad (3-3/4" deep x 4-1/4" wide).....\$ 300.00
- ☐ One-Third Page Ad (2-1/2" deep x 4-1/4").....\$ 165.00

**SPECIAL POSITIONS (BLACK & WHITE ADS)**

- ☐ Back Cover (7-1/2" deep x 4-1/4" wide) ..... \$ 800.00
- ☐ Inside Front Cover (7-1/2" x 4-1/4" wide)..... \$ 700.00
- ☐ Inside Back Cover (7-1/2" x 4-1/4")..... \$ 600.00
- ☐ Page 1 (7-1/2 x 4-1/4") ..... \$ 550.00
- ☐ Forward (7-1/2" x 4-1/4") (Before Member Section)..... \$ 500.00

**ADDITIONAL CHARGES**

- ☐ Spot (Single) Color (Each Color) Please choose color below..... \$ 160.00  
☐ Red    ☐ Blue    ☐ Green    ☐ Yellow
- ☐ Four-Color Process (Full Color Ad with red, blue, green and yellow)\$ 800.00

**Company/Organization** \_\_\_\_\_

Individual \_\_\_\_\_

Address \_\_\_\_\_

City, State & Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Fax \_\_\_\_\_

Signature \_\_\_\_\_

Please make your checks payable to the Queens Chapter – NYSSPE. Mail your check with this order form to:  
Queens Chapter NYSSPE Reference & Membership Directory  
C/O Brian E. Flynn, P.E.

***President, Queens Chapter NYSSPE  
78-66 79<sup>th</sup> Place, Glendale, NY 11385  
Telephone (718) 894-7822 Fax (718) 894-7833***

Please include your Artwork or camera ready copy. **Artwork Specifications** (Computer Formats): PDF; P65; EPS (INQUIRE); TIF; BMP; Others. Camera ready copy accepted OR We'll Make Your AD for You. Please email your computer format artwork to: [BEFlynnPE@aol.com](mailto:BEFlynnPE@aol.com) or mail it on computer media in PC format to our office: 78-66 79<sup>th</sup> Place, Glendale, NY 11385. In order to meet the printing schedule, all ads & order forms must be received no later than **October 31<sup>st</sup>, 2006**

## **JOB DESCRIPTION**

- Title:** Lead Design Examiner / “PED CE” Certification Engineer
- Reports To:** Administratively – Technical Manager, Moody International - Canada  
Functionally – Local Technical Manager and Engineering Manager - UK
- Division/Dept:** Engineering Directives Division
- Location:** US / Canada
- Responsibilities:** To ensure all assignment instructions received for Type A - Authorised Inspection Body: ISO 17020 (AIB) and PED projects are performed competently and at the times required to:
- a. review the assignment instruction for adequacy and practicality;
  - b. attend meetings as required; provide technical support to the team regarding design
  - c. liaise and correspond with clients, and others as relevant, in the determination of inspection stages and assessment requirements;
  - d. provide as required technical input into quotations;
  - e. visit manufacturers, suppliers, installers and others as to perform or witness the requisite inspections and audits if necessary;
  - f. project manage, commercially control and provide support to manufacturers in the preparation of and examinations of their documentation packages;
  - g. ensure all examinations and related activities in which involved are performed in accordance with AIB / PED requirements as defined in MIL / MIC work instructions and procedures;
  - h. produce certification, and;
  - i. assist in control of documentation and invoicing.
- Qualifications:**
- A. Education**
- Four-year University Degree (or equivalent), preferred in mechanical engineering. Chartered Engineer (or National Professional equivalent)  
Familiar with QMS (Quality Management System) such as ISO 9001, API Q1 will be preferred.
- B. Experience**
- A minimum of 5 years experience in the design and/or review of design for pressure equipment manufactured to international construction codes and standards.

**C. Professional Skills, Knowledge and Personal Qualities**

*Basic competence criteria includes a technical, working knowledge of:*

- Construction Codes and Standards (ASME, GB150 and valve design codes/stds)
- Industrial Law
- Design Technology
- Materials
- Manufacturing Technology
- Metallurgy / Material Sciences
- Joining Technology
- Structural Integrity – Fracture, Fatigue, Creep, Corrosion, Erosion etc.
- QA/QC / Inspection / Auditing / NDT
- Preparation of Manufacturing, Inspection, Test and Quality Procedures
- “CE” Marking Certification

*Professional skills and personal qualities:*

- Good English language oral and written communication skills
- Good interpersonal skills and demonstrated capability to work across cultural lines.
- Proficient in basic general and technical computer techniques, e.g., MS Windows, Word, Excel, Outlook, PowerPoint - FEA, MathCAD, AutoCAD, Finglow, CodeCalc, AutoPipe, Caesar, etc.
- Willing to work for extended periods when required and travel when necessary
- Self-Motivated and conscientious of work product and timeliness of communications and needs of others in worldwide offices.

## PROFESSIONAL DESIGN CENTER

422 Weaver Ave.  
Fort Totten, Bayside, NY 11356



American Institute of Architects

Queens Chapter

NYS Society of Professional Engineers



2006

P D C Lecture Series

9-06

# Lecture

Date: Wednesday Nov. 15, 2006 Time: 6:00PM to 8:30PM

At

422 Weaver Ave. Fort Totten, Bayside, New York

Admission fee is \$35 for AIA & NYSSPE members and \$45 for nonmembers  
Please make your check payable to: Professional Design Center and bring it  
with you the day of the seminar. TWO (2) HSW (LUs) WILL BE GIVEN.

## PRESENTED BY:

Bernard Haber, PE Partner Emeritus; Hardesty & Hanover

Paul DiNatale, AIA- President of the Professional Design Center of NY

## THE PROGRAM:

**WHY DO BRIDGES FAIL AND HOW TO PREVENT FAILURES?**

Are most failures caused by poor design?, Poor workmanship? Defective Materials? No, the facts are that more than 60% of bridge failures are caused by natural phenomena.

The major causes of bridge failures will be discussed including foundation failures from floods and other natural phenomena, failures caused by impact, corrosion, fatigue and defective materials. Examples of major bridge failures will be shown. The history and implementation of the nation's bridge inspection program, evaluation and rehabilitation program to prevent failures will be discussed...

**Buffet dinner 6:00pm-6:30pm included**

**Contact George Tavoulareas, PE at 917-299 2954 for further information**

*Dedicated to the advancement of Architecture and Engineering*