



130 YEARS OF ENGINEERING EXCELLENCE



ENGINEERS' CLUB OF PHILADELPHIA

**BULLETIN**

**FALL 2008**

THE ENGINEERING AND TECHNICAL CENTER OF THE DELAWARE VALLEY

# GOLF OUTING !

***Yes, it's that time again!  
Our 9<sup>th</sup> Annual Engineers Week Golf Outing will be conducted  
on Friday, October 17, at Island Green Country Club in  
Northeast Philadelphia!***

Come join us for our Fall Classic. As usual, the format will be a four-person modified scramble, with various skill holes and prizes. Up for grabs once again is the coveted MULFORD PRISM which is awarded to the winning foursome.

The Outing will start at 8:30 AM with registration and continental breakfast. Golf will begin with a shotgun start at 9:30 AM, followed by a buffet lunch and the awarding of prizes.

Various sponsorships are available, so even if you cannot attend the event, your firm can be recognized for its support of Engineers Week.

For more information, please consult the Club website ([www.engrclub.org](http://www.engrclub.org)) or call us at 215-985-5701.

Come join us for golf, networking, and a day out of the office!

**\*\*\* CLUB TOURS FOR THE FALL \*\*\***

***The Club invites you to attend our Engineering Tours which visit local facilities and sites with a wide variety of technical features to stimulate your interest.***

Our tours are geared to you, the technical professional, for your interest, curiosity, enlightenment, or whatever. You can earn 2.5 Professional Development Hours (PDH's) per tour to help you fulfill your possible PE license renewal requirements.

This Fall, we are offering three tours for your participation.

**Philadelphia City Hall – Wednesday, September 24, 10 AM to 12 Noon**

This tour will highlight the seat of Philadelphia's city government, one of the largest masonry structures in the world with over 250 sculptures adorning it, including the statue of William Penn which sits atop its tower.

**Arcelormittal Steel Company – Wednesday, October 22, 10 AM**

This tour will present the modern Steckle plate rolling mill and heat treatment facilities of the world's largest steel company, at its Conshohocken plant.

**CBS 3 Studio Tour – Tuesday, October 7, 5 PM**

Back by popular demand! Attendees will be given a "behind the scenes" tour of this state-of-the-art broadcast studio which houses television stations CBS 3 and CW 57, which was opened just over a year ago.

**THIS TOUR IS OPEN TO MEMBERS ONLY! It will begin at 5 PM with a Club meeting to review the progress of our Strategic Plan and will include dinner.**

For the City Hall and Arcelormittal tours, participation is open to Club members and guests. Attendees need **not** be Club members. However, there are group size limitations, so we urge you to reserve early to ensure a place. The CBS studio tour is for Club members only as it is combined with a membership meeting. We hope you can join us at this wonderful event to network with other Club members, get updated information about what is happening at the Club and to see the truly amazing, brand new CBS studio.

The cost of each tour is \$5 for Club members. Each attending member may bring one guest for \$5. Additional guests and non-Club members will be charged \$15.

Please contact the Club at 215-985-5701 or [info@engrclub.org](mailto:info@engrclub.org) for more information and registration. We hope to see you there!

*A fourth tour, planned for the Roebling Museum in November, will be rescheduled in the Spring. The Museum will need to schedule some repair work and will not be available for our tours this Fall.*

Transportation to the tour sites is the responsibility of each attendee. We would recommend the use of public transit for those who attend the City Hall and CBS 3 tours given the scarcity and cost of nearby parking. Directions to each site will be provided to attendees in advance of the events.

## **PRESIDENT'S MESSAGE**



You have heard Diane Conway, the Club's Executive Director, and I both talk about the Club's Strategic Plan. Earlier, I outlined the directions that it set. I am now pleased to highlight our actual activities which have been conducted through active and engaged committees:

- Membership – We have an aggressive effort to recruit more individual as well as Corporate and Affiliate members. We are also setting up a Student Chapter at Temple University and hope that this serves as a model for others.
- Professional Development – As Diane outlines in her message, the historically strong education

program has been expanded further in program type, offerings and venues.

- Affiliate Affairs - A “summit” of all Delaware Valley engineering organizations has been scheduled for mid-September. It is planned that the attendees consider ways for the local engineering community to collaborate - to the benefit of each of the individual groups and the profession at large. Early ideas include joint meetings and programs, coordinated scholarships and more.
- Administrative - After thorough review, the Club has subscribed to new association management software and engaged a new website designer to improve the Club's site. Both of these are aimed at improved, more efficient and timelier communication with the membership and engineering community.
- Marketing - Efforts are underway to consistently brand the Club in all of our materials.

There is a very engaged group of volunteers leading these efforts. They can always use more help. Please consider offering your support. If I could summarize my theme in a short phrase, it would be for the Club “to become the coalescing element of the Delaware Valley engineering community”. In this area, we continue discussions with the Delaware Valley Engineers Week Council.

I hope to see many of you at our Fall Kick-off meeting on October 7. By combining a tour with a late afternoon start, we are hoping to attract a good turnout.

As we try some new ideas and directions, we seek your assistance and support and also any comments or suggestions that you might have. As we continue the Club toward its 132<sup>nd</sup> year, we need your involvement.

Eric L. Flicker, PE  
President

## A MESSAGE FROM THE EXECUTIVE DIRECTOR

*Diane Conway, Ph.D.*



You have heard me refer many times to the Club's strategic plan. The strategic plan is the future blueprint for the Club to better serve not only its members but also the engineering profession in the greater Philadelphia area. As such, I want to highlight an exciting piece of the plan – the Club's Educational Program.

The Educational Program has been a cornerstone of service to its members since the Club's inception back in 1877. The Club has always focused on furthering knowledge of and professional development for engineers and technical professionals. By doing this, the knowledge base raises, the entire engineering profession progresses and, because engineering is intertwined so completely throughout our daily lives in so many ways, everyone's quality of life advances.

Because engineering is so intricately woven into the fabric of the American culture, there is a national trend to mandate continuing education as a requirement for licensure renewal for engineers. These requirements are dictated by each individual State. While not every State has these requirements, many do and many more are moving in that direction. Locally, New York has those requirements if you hold an engineering license in that State. More pertinent to Club members is that Pennsylvania has passed a law with those requirements which will go into effect for the 2011 licensure renewal. The details are currently being worked out by the Pennsylvania engineering licensing board.

Because of these new licensure requirements, the Club is posed, through its Educational Program, to play a valuable role in assisting not only its members, but all engineers, in meeting these new standards to maintain their licenses. Throughout the Spring and Summer, the Club has been focused on upgrading the Educational Program. As a result, there are many new, exciting courses. We have added not only new topics and material, but also are offering new ways of providing the information so it is more convenient for participants to take advantage of these many new offerings. For the first time ever, the Engineers' Club will be offering a webinar series which will enable participants to attend the sessions through their own laptop or desktop right from their home or office. Each Spring and Fall we will continue to add to and update the Educational Program.

The Club has established a new committee, the Professional Development Committee, which will ensure that the Club's Educational Program remains up to date and cutting edge. By the way, any Club member can join the Professional Development Committee and be part of shaping the future of our Educational Program. Just let me know.

So check it out..... The fall Educational offerings are in this edition of the *Bulletin* as well as on the Club's website. Sign up for a course or two. Let me know what you think – send me an e-mail ([dconway@engrclub.org](mailto:dconway@engrclub.org)) or call me at the Club, (215) 985-5701 X1.

**Diane Conway, Ph.D., Executive Director**

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## ENGINEERS' CLUB COMMITTEE NEWS

There has been a lot of forward movement with Club plans through the work of the newly established committees of the Club. We wanted to bring you an update of all the news from the committees to let you know all the new and exciting projects that are occurring at the Club. We want to thank all the volunteers of each committee as they are an invaluable resource to the Club. The Club could still use volunteers for each committee listed below. If you are interested please contact Diane Conway, Executive Director at the Club or the Committee chair directly.

**Membership Committee** (Chair, Ruben David – [rubenddavid@msn.com](mailto:rubenddavid@msn.com))

The Engineers' Club Membership Committee has been busy with their part of the strategic plan. Specifically, the committee has developed some new membership packages that will be rolled out this fall. In particular, the Engineers' Club will be offering new corporate, affiliate and student chapter memberships. How will this work?

### **Corporate Membership**

Corporate membership will be offered to engineering companies or companies that employ engineers. There are six different levels of membership from which a company can choose. Each level has additional benefits. This enables a company to choose the level which best fits their own corporate needs. For more information about corporate membership at the Club please visit our website or call the Club office.

### **Affiliate Membership**

Also new to the Club is the Affiliate Membership. This is a newly designed

membership category to provide services to technical societies in the Delaware Valley. There are different levels of membership depending on what service needs the society desires. Services include mailings, membership records management, financial records management, events management and more. Please visit our website for more detailed information.

### **Student Chapters**

New to the Club's membership is the formation and recruitment of student chapters. Members of the student chapters will be given opportunities to develop leadership skills and opportunities for professional growth. Recruitment started in spring at Temple University, which will become the first student chapter. It is anticipated that the Temple Student Chapter will be formally introduced and recognized during the upcoming fall semester. Recruitment of student chapters at Drexel, Swarthmore, Widener, and Villanova will follow suit. Student Chapter Constitution and By Laws are provided in the Club's website.

**Affiliate Affairs Committee** (James Markham – [jmarkham@pennoni.com](mailto:jmarkham@pennoni.com))

Speaking about the Club's relationship with technical societies, The Affiliate Affairs Committee was formed with the purpose to establish and maintain liaison with other technical and professional societies in the greater Philadelphia area. This committee has been very active in planning way to accomplish this. Immediate future plans include items such as the establishment of a joint calendar of events hosted on the Engineers' Club website, increased participation of all societies in Engineers' Week celebrations and collaboration of engineering scholarships also on the Engineers' Club website. Most importantly, the Club will be hosting a summit of the leadership of all technical societies in the Philadelphia region on September 16<sup>th</sup> to begin a dialog of collaboration.

**Administrative Committee** (Carol Martsolf – [ccmartsolf@urbanengineers.com](mailto:ccmartsolf@urbanengineers.com))

The Administrative Committee was formed to assist the Club with its internal operations to effectively and efficiently use Club resources to advance its mission and to better serve its members. As such, the committee is spearheading two very exciting and important projects: installation of a new software package specifically for association management and the redesign of the Club's website. The committee gathered and reviewed proposals for both projects. At its last meeting, vendors were selected and both projects will be underway soon. While there may be a transition period members should be able to experience the differences this fall. The outcome to Club members will be more user friendly, professional administration of Club services.

**Marketing Committee** (Diane Conway – [dconway@engrclub.org](mailto:dconway@engrclub.org))

The Marketing Committee was formed to promote awareness of the Engineers' Club and issues of importance to the engineering community to the Club members, general public and government officials. This committee has been active in establishing a new look for the Club. We are beginning this process by reviewing the Club's name and logo.

**Professional Development Committee** (Robert Wright – [rmwright@urbanengineers.com](mailto:rmwright@urbanengineers.com))

The Professional Development Committee was formed to advance the professional development of the technical and engineering community in the greater Philadelphia area through the various educational services offered by the Club. This committee is spearheading all the Club's educational offerings including all the courses, seminars and tours. We have added several new educational offerings this fall and hope to continue to add to these offerings each semester. The committee will also be crucial in positioning the Club in assisting engineers in meeting the new requirements for licensure renewal both in New York and Pennsylvania. Additionally, as the Club moves forward with collaboration with local technical societies, this committee will be looking for ways to partner with others in offering professional development services

# THE ENGINEERS' CLUB OF PHILADELPHIA EDUCATIONAL PROGRAM



## COURSE OFFERINGS - FALL 2008

The courses listed below will be offered by the Club as part of our Education Program. Starting dates and fees vary. For detailed information visit our website ([www.engrclub.org](http://www.engrclub.org)) or e-mail us at [info@engrclub.org](mailto:info@engrclub.org).



### CONSTRUCTION

- CO-1 THE 2006 INTERNATIONAL BUILDING CODE
- CO-2 THE 2006 INTERNATIONAL BUILDING CODE
- CO-3 CONSTRUCTION PROJECT MANAGEMENT
- CO-4 CONSTRUCTION COST ESTIMATING

### ELECTRICAL

- EL-1 FUNDAMENTALS OF INSTRUMENTATION AND CONTROL
- EL-2 FUNDAMENTALS OF INSTRUMENTATION AND CONTROL
- EL-3 FIBER OPTICS & NETWORK WIRING
-  EL-4 CHANGES IN THE NATIONAL ELECTRICAL CODE
-  EL-5 GROUNDING & BONDING

### ENERGY

-  EN-1 THE COMING ENERGY CRISIS
-  EN-2 THE COMING ENERGY CRISIS (2-day course)

### FIRE PROTECTION ENGINEERING

- FP-1 SPRINKLER SYSTEMS BASICS
- FP-2 SPRINKLER SYSTEMS BASICS
- FP-3 FIRE ALARM SYSTEMS

## **MECHANICAL**

**ME-1 HEATING & VENTILATION**

**ME-2 BASIC PIPING DESIGN**

**ME-3 BASIC PIPING DESIGN**

**ME-4 AIR CONDITIONING FOR DESIGNERS**



**ME-5 HVAC FOR AUDITORS AND SUPERVISORS**

## **MANAGEMENT**



**MA-1 LEADERSHIP FOR ENGINEERS**

**Session #1 - Improving Staff Morale & Reducing Turnover**

**Session #2 – Team Building**

**Session #3 – Communication**

**Session #4 – Time Management**



**MA-2 LEGAL ISSUES FOR ENGINEERS**



**MA-3 MANAGING YOUR CAREER**



**MA-4 MANAGING YOUR CAREER**



**MA -5 NEGOTIATING FOR THE SAVVY PROFESSIONAL**



**MA – 6 HOW TO AVOID FREE CONSULTING AND BUILD YOUR BUSINESS**

## **AND STILL MORE EDUCATIONAL OPPORTUNITY....**

### **Understanding Finance for the Professional Engineer - Part II**

It is not uncommon for engineering firm principals, project managers and technical staff to become confused and handcuffed when confronted with firm financial matters. After all, you were trained as an engineer, not an accountant. This program is designed to peel away the layers of mystery and provide you with the necessary basics - specifically as they pertain to engineering firm management. You will return to your office energized by new found financial skills, increased confidence, and a set of simple yet powerful tools and procedures you will use day in and day out to understand and manage your firm.



In Part I of this two-part seminar, presented this past February, we covered the “ins and outs” of the income statement, company budgeting and the critical financial aspects of project management.

In Part II, we will:

- Examine the intricacies of the balance sheet which tracks and measures the capital structure and financial health of the organization.
- Learn the ways to become proficient in extracting and then using key financial measurements such as the current ratio, debt to worth, working capital and owner equity.
- Understand the concept and use of leverage to finance and operate a firm.
- Demonstrate how to decipher and read through the annual year end report package from your accounting firm to fully understand and appreciate the financial standing of the firm.
- See how privately held engineering firms are typically valued for buy/sell purposes.

The session will close with a discussion of the use of incentive compensation and other opportunities to energize staff by linking individual success to company results and in the process further the performance of the firm.

For those of you who may not have attended Part I, we will begin the day with a recap (or a refresher for those of you who did attend) of the key points related to the income statement to bring both sections of the entire program together for everyone.

**This session is scheduled for Saturday, November 1. Please visit our website for more information on this program.**



**TO NEW MEMBERS**

**DUC DU NGUYEN**

**DOUGLAS TAYLOR**

**GERALD FORSTATER**

**KEYUR J. VEKARIA**

**MELISSA RYSAK**

**FON WANG**

**PETER SILVERBERG**

**THE ENGINEERS' CLUB OF PHILADELPHIA**

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RUBEN D. DAVID, PE

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**The Engineers' Club of Philadelphia publishes the BULLETIN for distribution to its members and throughout the engineering and scientific community of the Delaware Valley.**

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