

All members, families and friends of Polish-American Engineers Association are cordially invited to attend our October 2008 meeting.

DATE: **Friday, October 17, 2008**

TIME: **7:30 – 8:00 pm Social time**
8:00 pm – Business and Technical Session

PLACE: **Copernicus Center**
5216 West Lawrence Ave.
Chicago, Illinois

SPEAKER: **Mr. Garret P. Browne, S.E.**
Vice President

TOPIC: **The Chicago Spire**

The Chicago Spire (www.thechicagospire.com) has a very innovative structural system that is a true integration of architecture and engineering. The spiral shape of the tower is ideal for improved wind performance and the composite structural frame has optimized the use of a concrete core and steel framing for one of the most significant tall buildings of this century. A unique circular outrigger system, that does not require thru core struts, and the use of high strength concrete all contribute to the feasibility of this future landmark. The engineering analysis included a sequential construction analysis of the building with time dependent material properties to account for the effects of elastic shortening, creep and shrinkage of the concrete. This presentation describes the structural engineering of the 600 m Chicago Spire being developed by Shellbourne and designed by Santiago Calatrava. The architect of record for the project is Perkins & Will of Chicago and the engineer of record is Thornton Tomasetti. The building foundations are currently under construction and this will be the tallest building in North America upon completion. The building sits on a prominent location on the northern bank of the Chicago River's inlet from Lake Michigan. The east side of the site is bordered by Lake Shore Drive and the north side by Ogden Slip, a man-made inlet from Lake Michigan.

Mr. Garret P. Browne graduated in 1985, from the Trinity College in Dublin, Ireland with a Diploma in Engineering. He is Licensed Structural Engineer in the state of Illinois. He is a Member of the Structural Engineers Association of Illinois (SEAOI), outside Advisor to IIT Architectural Students, Member of the Institute of Engineers of Ireland. He is Guest Instructor at the University of Illinois at Chicago, School of Architecture. He wrote numerous Professional Papers, Lectures and Publications.

Mr. Browne joined Thornton Tomasetti in 1994. As a Vice President, his responsibilities include structural design, coordination, preparation of drawings, review of shop drawings, and direct interaction with owners, architects, detailers and contractors. He has experience in many types of structures, including performance theaters,

commercial buildings, institutional buildings, tenant build-outs and rehabilitation projects. In addition, Mr. Browne has an extensive background in the design and application of British Codes of Practice. Among his numerous works was also structural design of a concrete high-rise structure for the National Bank of Poland in Warsaw.

A business meeting will precede the technical presentation. SPECIAL INVITATION to Polish engineers and technicians who recently came to Chicago.

70th ANNUAL AWARD BANQUET. We are invited to attend the Illinois Engineering Council Banquet on Saturday, October 11th, 2008 at the White Eagle Banquet Hall, 6839 N. Milwaukee Ave., Niles IL. Keynote Speaker is Rosemarie S. Andolino, Executive Director of the O'Hare Modernization Program. Banquet is connected with the 3rd Annual Illinois Engineering Hall of Fame Induction.

39th POLISH AMERICAN HERITAGE AWARD BANQUET will be held on Sunday, October 26, 2008 at the Avalon Banquets, 1905 East Higgins Road, Elk Grove Village, Illinois. This is a celebration of the 400th Anniversary of the Polish Settlers arrival at Jamestown, Virginia. The 2008 Award recipients are: Dr. Charles F. Merbs – Pulaski Forensic Anthropologist, Polish American Contractors and Builders – Jamestown Committee, Alderman Robert Fioretti – 2nd Ward – City of Chicago, Lawrence Langowski – 2008 Olympian and Stanley Bogobowicz.

CNC COURSES: The Polish School of Programming the CNC Machines started on November 2, 2008. For detail information please call: 847-439-9175 or: contact@WellDoneChicago.com. After completed the course in industrial training at the Melrose Mold & Machining facility the graduates find jobs in businesses friendly with the school. Instructors are Polish engineers with several years of training in the USA. The classes are conducted in Polish using English vocational terminology. English and Polish textbooks are used; the library has the most recent technical publications.

Correction to our September 2008 Bulletin. There were two recipients of the Ralph Modjeski Scholarship: Miss Aneta Ustepska and Mr. Luke Grabowski. They are both juniors studying Engineering at Illinois Institute of Technology. Each recipient received \$750 grant.

Do not forget about your financial obligations as a member of PAEA. We need your dues to run our organization effectively. It is already October, if you can not attend this meeting please mail your membership fee to our Treasurer:

Mr. Rich Kaczmarek
1725 South Crescent
Park Ridge Illinois