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Ohio Society of Professional Engineers

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PRESIDENT'S MESSAGE

By Devon E. Seal, P.E. / FCC President



February 19-25, 2012 is National Engineers Week. The theme this year is based on the estimated world population of 7 billion; "7 billion people. 7 billion dreams. 7 billion chances for engineers to turn dreams into reality". There are several events taking place here in

Columbus to celebrate Engineers Week, including the E-Week Luncheon. This year's speaker for the luncheon is from the NASA Glenn Research Center. We at the Franklin County Chapter will also be hosting students as part of

Engineer for a Day, and we will be visiting second grade classrooms for the Imagine Engineering Coloring Contest.

As we prepare to celebrate National Engineers Week 2012, and a world population of 7 billion, the FCC board has been looking back at where we came from. Leon Winget, P.E., PhD, has prepared a series of articles describing the founding of our chapter and our history. The first article in his series is presented in this issue of The Columbus Engineer. It is interesting to note that when our chapter was founded the estimated world population was around 2.3 billion.

(Continued on page 2)

ENGINEERS WEEK LUNCHEON

DATE: Thursday, February 23, 2012

PLACE: The Bridgewater Conference Center
10561 Sawmill Parkway
Powell, OH 43065

TIME: 11:30 am Registration
12:00 pm Luncheon

REGISTRATION: \$25 Early Bird Registration* \$35 Late Registration (depending on availability, walk-ins may not be accepted) Students FREE - Bring Your Resume! *Registration begins January 9. Register by February 9 to get your early-bird discount! Register online at <http://ohio.apwa.net/events/8509/>. Payment in advance via credit or debit cards strongly encouraged.

SPEAKER: The keynote speaker will be Bryan Palaszewski NASA John H. Glenn Research Center. Come hear Mr. Palaszewski highlight the impacts NASA has made on to the average US citizen.

Bryan has worked at the NASA Glenn Research Center at Lewis Field since 1989 and is currently directing

research on high performance propellants and atmospheric entry. He currently leads work related to human Mars entry, descent, and landing (EDL) where rocket deceleration is planned for the final descent to the planet's surface. He is also investigating outer planet atmospheres and the challenges and benefits of mining them for future space missions.

A recent focus of his research is in nanoparticle metal additives for gelled liquid fuels, and solid hydrogen for atomic propellants. For six years, Bryan led many studies of advanced space systems for orbital and interplanetary travel at the Jet Propulsion Laboratory, Pasadena, CA.

He was also the lead propulsion subsystem engineer on the Ocean Topography Experiment (TOPEX) for three years, as well as being involved in other flight projects such as the Galileo Mission to Jupiter and the Cassini Mission to Saturn.

Bryan holds a Master of Science Degree in Mechanical Engineering from the Massachusetts Institute of Technology and a Bachelors Degree in Mechanical Engineering from the City College of New York.

(Presidents Message continued from Page 1)

Last month we held a joint luncheon with the Central Ohio Code Officials Association. The meeting was very well attended, and was a great opportunity for networking with our local code officials. Robert Schutz, P.E., P.S., presented information from Chapter 1 of the Ohio Building Code. Also, congratulations go to Joe Sullivan, high scorer at the FCC Family Bowling Event this past weekend.

February Auxiliary Luncheon

The Auxiliary to the Franklin Co. Chapter of OSPE will meet for a noon luncheon on Tuesday, February 21, at Hilliard Presbyterian Church, 3600 Leap Rd., in Hilliard. Member Betty Cuniberti is to present a slide program about some of her travels. Barbara Fuller will give the invocation and lead the pledge of allegiance. Sharon Eifert is our hostess.

Prospective members and other guests are encouraged to attend to find out more about this small but very active group. We are still able to provide scholarships for OSU engineering students. To make a reservation call Jean Mitchell at 262-7071.

Call President Agnes Benedict at 262-7346 for more information.

(Chapter members please encourage your spouses to consider joining us. We really need more members to be able to continue with our philanthropy projects.)

FCC/OSPE Upcoming Awards

Nominations are being accepted for the following five OSPE awards. Contact your local Chapter Awards chairperson,

Tina Sutermeister, at 614-718-3795 or email: tina.sutermeister@alcatel-lucent.com. The deadline for submitting these nominations to OSPE is March 31st so, don't hesitate, contact Tina immediately.

Overall National Engineers Week Observance Award – This award is presented to the Chapter that excels in its week long E-Week program to promote the engineering profession and educate the community of the true meaning and purpose of National Engineers week. [Contact Tina to obtain the nomination form.]

OSPE Uncommon Engineer Award – This award recognizes distinguished service to the engineering profession; devotion and commitment to the state society and local chapter; high standards of professionalism; and guidance in the role of a team player.

Legislator of the Year Award – This award recognizes a State Legislator who has given significant support to the engineering profession, allowing the profession to maintain its commitment to the health, safety and welfare of the public.

Professional Engineering Management Award – This award recognizes leadership, organizational and management skills in an engineering environment.

Ohio New Product Award – This PEI award recognizes the benefits that come from the research and engineering of new products and the results of engineers' efforts and foresight of their firms. The firm must have developed a product, machine, process or material that was primarily developed and manufactured in Ohio. [Contact Tina to obtain the nomination form.]



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A History of the Franklin County Chapter of the Ohio Society of Professional Engineers

By Leon Winget, PH.D., P.E.

Paraphrasing an old adage: “One does not know where one is going if one does not know where one has been.” Hence I thought that it might be good to revisit where the Franklin County Chapter has been and its origin. The following excerpts largely from the “History of Franklin County Chapter Number 20; Ohio Society of Professional Engineers”, by Frank T. Geyer, P.E. Mr. Geyer composed the history in 1972. He supplemented the history in 1976, covering the more current events of the time. I would be remiss if I did not also include the late Mr. Frank Weimer P.E., who continued the history through the 1990’s. So I write this section in honor of Mr.’s Geyer and Weimer intense dedication to the Chapter. God bless them both.

The sentences and phrases in quotes (“”) are direct passages from Mr. Geyer’s history. Most of the remainder is paraphrasing on my part. I have not contributed any new data to this brief introduction of Franklin County Chapter (FCC).

(The early years!) “In the autumn of 1879, a group of county surveyors met to discuss the possibility of organizing an association. A letter was sent to all county surveyors in the state describing the purpose and advantage of the organization.” A convention of the county surveyors was held in Columbus in January 1880.

Sometime previous to the 4th Annual Meeting convened in January 1883, the name of the association was designated “The Ohio Society of Surveyors and Civil Engineers.” In January 1888, a separate group known as the “Columbus Engineering Society” was granted permission by the Ohio Society of Surveyors to meet under their own charter. This organization later became known as the “Engineers Club of Columbus”.

(Fast forward!) “The first Engineering Registration Law in the U.S. was enacted by the Wyoming legislature in 1907. A similar law was adopted in Ohio in 1933.” “The purpose of the law is:

...to safeguard life, health, and property by requiring the registration of practicing Engineers, establish minimum qualifications for registration...” The Law also included the means and needs of verifying the qualifications of the registrants.

Following the enactment of the Ohio Law, a group of Columbus engineers recognized the need to identify registered professional engineers and organized a separate

section known as the “Franklin County Society of Professional Engineers” affiliated with the new and growing National Society of Professional Engineers, located in Washington D.C. The first recorded minutes available were in March 1936. The section met monthly and performed the usual functions of a local chapter of a technical society.

In April 1937, a resolution was proposed to the effect that the Franklin County Society of Professional Engineers disband and turn over their records and funds to and combine with “The Engineers’ Club of Columbus”. This resolution failed.

In June 1940, another resolution was proposed which was based on the report of a committee created in the summer of 1937 especially for this purpose. The committee recommended the establishment of a Registered Engineers and Surveyors Section of the Engineers’ Club of Columbus. This resolution was favorable to the membership and was tentatively accepted.

Meanwhile the Engineers Club revised its constitution in October 1937, requiring all members to be registered. They also created a separate section known as the Professional Engineers’ Section of the Club. At that time there were 975 registered engineers in Franklin County. The membership in the Engineers’ Club of Columbus was 266 of which 208 were registered engineers.

An OSPE Executive Session was held on October 1940, to consider a resolution presented by the Franklin County Society of Professional Engineers. The resolution was favorably considered. The Engineers’ Club of Columbus proposed that the FCC organized as separate group under the OSPE and be known as the Franklin County Chapter of OSPE. The interested parties accepted the proposal and thus “Franklin County Chapter of Ohio Society of Professional Engineers” was brought into being. To be continued.....



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Engineer for a Day, 2012

The “Engineer for a Day” program is organized for high school students who have an interest in learning about careers in engineering. The program takes place during National Engineers Week in February. The students get to spend a day as a guest of an engineering company to gain first-hand knowledge of the role of an engineer. This gives the students (high school juniors and seniors) a real world exposure to a possible future career as an engineer. The activities for the day of the program are to help the student learn – what do engineers do, what are the engineering activities of the company (engineering business and products), what field of engineering discipline is involved, and what are the challenges the engineer faces on a daily basis? Though these students are first discovered by their high school math and science teachers, a first-hand interaction with an engineer in the field could be the primary factor determining the career path of these kids.

The program has enjoyed tremendous support from many companies and organizations including, City of Columbus, Ohio Department of Transportation, American Electric Power, Franklin County Engineer’s Office, MS Consultants, Emerson Network Power. These companies have been very supportive of the program for the past five years and we appreciate and value their continued support at molding the future engineer. We have also had support from other companies which we cannot list here for lack of space, but we pray they continue to support us in our effort to shape the future engineer – we are sure the kids will not forget

these host companies’ efforts to give back to the engineering community. The program has also changed over the years, as we now prefer that students have a means of transportation to and from their host companies. Host companies can pick up their guest students at school and drop off after the event but many companies prefer the student to be dropped off, or have a means of transportation to their premises by the school or guardian.

Schools have been very supportive, too! They know and identify the students with special math and science skill first, then shape them along a career path. The students follow up and choose an engineering discipline of their choice. Our special thanks to Hilliard Darby HS, Westerville South HS, Bishop Ready HS, Bishop Watterson HS, Dublin Coffman HS, Columbus Downtown HS, Grove City HS, New Albany HS and others too many to mention . They have continued to provide guest students for the program and their unflinching support is appreciated.

The past few years have not been very easy for the program, but past experiences have shown that with support from parents, schools, and the host companies we will produce the engineers of our dream – able to compete with other professional in the larger society, but we need to discover the talent in them early before other professional paths grab them. This is what will make the founding fathers of the engineering profession proud. And the more quality engineers we can produce the better will be our society.

A joint meeting of the Central Ohio Code Officials and the Franklin County Chapter of OSPE was held on January 23, 2012. A representative from each group explained their respective roles and objectives in dealing with the safety, health and welfare of the people of Ohio. Jim Stocksdale spoke for the code officials and Devon Seal represented the engineers. The event proved to be an excellent outreach opportunity.



PROFESSIONAL ENGINEERS IN PRIVATE PRACTICE (PEPP)

by Paul Franklin Junk, PE, PS

What can your society do for you? NSPE, OSPE and the Franklin County Chapter each have answers to this question. Several interest groups have been set up to address the various needs of the professional engineer. The interest groups are Professional Engineers in Construction (PEC), Professional Engineers in Higher Education (PEHE), Professional Engineers in Government (PEG), Professional Engineers in Industry (PEI), and Professional Engineers in Private Practice (PEPP). PEPP provides the following services to assist the engineer working in private practice.

Awards

The PEPP Award is given annually to an individual who has made an outstanding contribution to the advancement and recognition of the role of private practice in serving the public interest. The PEPP Professional Development Award is presented to employers that exhibit exceptional career development initiatives and employment practices that advance the engineering profession. The QBS award recognizes public agencies that make exemplary use of the QBS selection process at the state and local level. The Albert H. Miller Memorial Scholarship is granted to University of Arkansas students.

Information and News

PEPP members receive the group's monthly electronic newsletter, *PEPP Talk*. PEPP provides a variety of resources on professional liability and risk management. PEPP leads advocacy efforts and offers a recommended professional liability insurance program through CNA/Victor O. Schinnerer and Company, Inc., that assists practicing engineers with risk management.

Mentoring

Whether you're preparing for licensure, managing a career transition or simply seeking advice or information from a wide range of experienced engineers nationwide, NSPE's mentoring program provides a powerful resource that's available only to our members.

Products & Services

PEPP members receive significant discounts on NSPE's popular EJCDC (Engineers Joint Contract Documents

Committee) contract documents. PEPP's Professional Liability Committee offers guidance and recommendations for choosing the right liability coverage.

Professional Development

Review a complete listing of professional development resources.

Professional Liability

The following resources have been developed by NSPE to assist professional engineers and engineering firms in managing many of the risks associated with engineering practice. Legal liability exposures may represent the greatest threat to the financial health of professional engineers and engineering firms.

Young Engineers Advisory Council (YEAC)

Each year, PEPP YEAC members select one or more projects to focus on throughout the year. The projects are designed to help young engineers in developing their leadership skills, and to become better engineers and to help seasoned engineers learn how to help mentor and motivate young engineers. Through a series of monthly conference calls, the council works as a team to develop this project into something to benefit young engineers, PEPP and NSPE as a whole.

In the Franklin County Chapter of OSPE, your PEPP trustee is Paul F. Junk, PE, PS. I encourage you to contact me should you wish to receive more information about PEPP. I hope to see you at the next OSPE event.

MATHCOUNTS VOLUNTEERS NEEDED

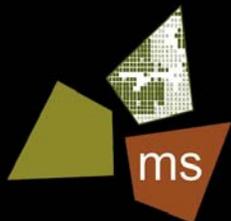
The MATHCOUNTS' local regional competition will be held at the Columbus State Community College on February 18th and the State competition at the same location on March 10th. Your volunteer help is needed and greatly appreciated. Please contact Joe Bolzenius at (joseph.bolzenius@hotmail.com) for the local regional competition and Tina Sutermeister at (Sutermeister@alcatel-lucent.com) for the State competition.

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2012 CALENDAR

Feb. 7	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Feb. 15	9:00 p.m.	<u>Deadline for Mar. Columbus Engineer</u> (articles to Tim McCarthy)
Feb. 18		MathCounts at Columbus State Community College
Feb. 19-24		National Engineers Week
Feb. 22		Engineer for a Day program
Feb. 23	11:30 a.m.	Engineers Week Luncheon - The Bridgewater Conference Center
Mar. 6	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Mar. 15	9:00 p.m.	<u>Deadline for Mar. Columbus Engineer</u> (articles to Tim McCarthy)
June 1&2		Ohio Spring CPD Conference - Columbus Marriott Airport Hotel



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