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PRESIDENT'S MESSAGE

By Leon E. Winget, Ph.D., P.E. / FCC President



Oh no, another month has passed, time sure flies, of course not literally but wow, figuratively (like cows and pigs). February is **now here!** February is a very busy month for the Chapter members. We have bearing down upon us the last of the Imagine Engineering program, MATHCOUNTS, Engineer for a Day (EFAD), Engineers Week Luncheon and Scholarship grading. In addition, we are in the midst of our membership drive. Yes the Chapter can sure use your help, please join-in.

The FCC Regional MATHCOUNTS event will be held at Columbus State University (CSU) on February 16th, 2013. Approximately 50 schools and 380 students are registered to compete. FCC competition is the largest in the State. There are a total of 14 competitions around the state and all must be completed in February. If you wish to volunteer, contact Joe Bolzenius, joseph.bolzenius@hotmail.com, and if that is not convenient then we can put you to work at the State competition on March 9th, 2013; contact Tina Sutermeister, Sutermeister@alcutel-lucent.com. If you would like to see some very astute mathletes perform in front of an audience of over 500 including peers, parents and coaches, come to Delaware Hall at CSU around 1:00 pm on February 16, or 2:00 pm on March 9. You will be amazed. Are these students our future engineers?

National Engineers Week - The Franklin County Chapter is the host chapter this year; our thanks to Steve Wilson for taking on and doing a fabulous job. We have a very unique and awesome speaker, Dr. Ahmed Naumaan. The theme this year is "Awesome". His topic is "Celebrate Awesome", so be prepared to be awed (out of your "gourd".) In addition, the luncheon is our critical time that we as members of the engineering profession have to meet with high school seniors and talk to them one-on-one about the engineering profession. These ambitious high school students are very eager to hear about our own personal experiences in engineering. I highly recommend that you join us and see these young future engineers in person. You may register by going to the web

address highlighted below. You may click on it <www.fccospe.org> or copy and paste it into the email address. Nothing could be easier. Please note there is an "**Early-Bird**" special if you register by **February 8, 2013**. You will save 29%! Do it **now!**

The Chapter will have a table at the "Engineers Week Luncheon" and will have available PE License Plate Frames for a donation of \$5.00 each. Securing the frames at the luncheon saves you the additional cost of shipping and handling. At least stop by and say hello.

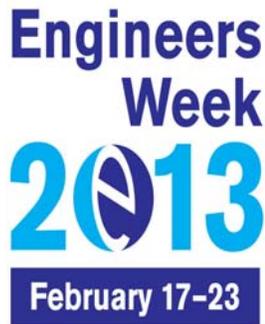
The "Engineer for a Day Program" is a program in which a junior or senior high school student shadows an engineer in industry, government or a consulting firm for a day. This program is scheduled for February 20th. If your company wants to participate, please send an email to our Administrative Assistant, Nancy Mergel ospefcc@aol.com. You may contact Howard Jones hrjones63@yahoo.com for further information, but you must do it now!

Franklin County has received several scholarship applications. These will be reviewed and graded this month. If you wish to participate in this process, and we can use your expertise, please contact Joe Sullivan joe.sullivan@stantec.com.

Although Franklin County Chapter has gained several new members, we need to continually encourage our brother and sister PE's to join the three tier organization NSPE/OSPE/FCC. You may contact Ronald Eifert, roneifert@aol.com, who is doing an outstanding job as our membership chair. (The OSPE Legislative Committee with the staff is a watch dog for new and revised legislation that impacts registered engineers and there are many such bills which appear in the legislature, continually and consistently.)

As a sponsor for a new member you earn a reduction in fees. I am requesting all Chapter members to encourage a non-member to join the three tier organization NSPE/OSPE/FCC. When they join they get a free "PE License Plate Frame" and a "FCC Ballpoint Pen".

Remember the more (effort) you give the more you receive (from your membership).



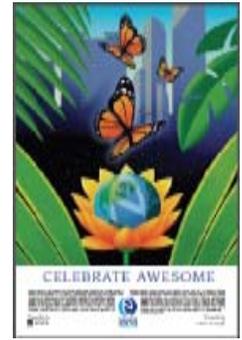
2013 Central Ohio Engineers Week Luncheon

Save the Date!

Thursday, February 21, 2013

at

Bridgewater Banquet & Conference Center
10561 Sawmill Parkway, Powell, Ohio 43065



11:30 AM Registration, 12:00 Noon Luncheon, 12:30 PM Program Begins

Registration: \$25 “Early-Bird” Registration (Register by February 8, 2013 to get your “Early-Bird” discount.) \$35 Late Registration. Students FREE – Bring Your Resume! Registration begins January 7, 2013 online at <http://www.fccospe.org/>. Payment in advance via credit or debit cards is strongly encouraged. Registrations at the door (walk-ins) will be accommodated until seating capacity is reached, and payment via credit or debit cards is again strongly encouraged.

Keynote Speaker: Dr. Ahmed Naumaan, National Dean for the College of Engineering and Information Sciences at Devry University. You will want to come hear Dr. Naumaan’s presentation as we “Celebrate Awesome” during this year’s National Engineering Week.

At Devry University’s College of Engineering, Dr. Naumaan is responsible for the leadership and oversight of the college and steering the course of degree programs, including curriculum management, course development, and culturing academic excellence. He has also served as Dean for the School of Information Systems and Technology at Kaplan University, Associate Dean for Engineering at NTU School of Engineering and Applied Science at Walden University, and as faculty member in Computer Science and Engineering department of the University of Minnesota – Twin Cities.

In Practice, Dr. Naumaan has worked in industry as an engineer and as a manager in product development and in research on solid-state sensors and integrated optical devices. He has been a member of organizing committees for several national and international conferences and workshops, served as guest editor for the IEEE CHMT Society on integrated optics, and is himself a patent holder.

Dr. Naumaan received his PH.D. and MS in electrical engineering from the University of Cincinnati and his BE in electronics from the University of Karachi in Pakistan.



CHAPTER MEMBERSHIP

New member recruiting and retention efforts are ongoing activities within the Franklin County chapter. Recruiting efforts are concentrated, to a large extent, on new EI's and newly certified, non-member PE's. Personal contacts at certificate presentations and letter follow-up offers of membership opportunities to all engineers in these categories follow. Success of membership offers to employed, non-member engineers depend on the effectiveness of the local, chapter and state publications and encouragement of fellow engineers. Follow up contacts with new members is an important step in developing an actively involved membership.

Membership numbers have been and are a concern within NSPE / OSPE, as is the case with many professional and business associations. Over the course of several decades, OSPE membership has declined from near 3000 to the present 1500. Franklin County chapter numbers have declined even greater to the present number of 350. FCCOSPE membership is composed principally of engineers in private practice (PEPP) and Industry (PEI) (combined 72%). Engineers in government (PEG) have declined to 4%, Education (PEE) and Construction (PEC) are about 5% each, retired engineers are now 15%. Maintaining traditional chapter programs, centered around career guidance, scholarship, public relations, continuing education and engineering related legislation along with membership communications account for the 2012-2013 budget of \$18,400, \$4800 of which (luncheon programs and education seminar) is offset by the related income. The \$13,600 worth of programs are administered by 15-20 dedicated members. They could use some help.

The OSPE assigned target for new Franklin County members for the year beginning July 1, 2012 is 23. We probably need to double that number. The NSPE / OSPE mission: "To promote the ethical, competent and licensed practice of engineering and to enhance the professional, social, and economic well being of its members" is a worthy statement of purpose. No other organization is similarly positioned to address these specific objectives. Many engineers before us have furthered this organization and supported its purpose. Why should we not proceed with the same objectives?

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ATTENTION

Rich Irwin E-Mail Change

Please be advised that Rich Irwin of the Franklin County Chapter has a new email address:
richirwin614@gmail.com
.....

FCC FEBRUARY AUXILIARY

The Auxiliary to the Franklin Co. Chapter of OSPE will meet on Tuesday, February 19, at Hilliard Presbyterian Church, 3600 Leap Rd. Hilliard. Following the noon luncheon the American Association of University Women's chorus, with Ginger Haack as the director, will entertain.

Joanne Troy will offer the invocation and lead the pledge of allegiance. Jean Mitchell is to be hostess.

Prospective members and guests are encouraged to come and enjoy this program. To make a reservation call Jean at 262-7071.

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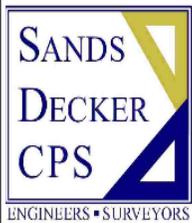
TidbiT

The Future Engineer or the Future of Engineering - Engineers at an institution in Stuttgart have successfully configured a moving robot which has designed a “part” without the intervention of an engineer using a genetic software algorithm. What’s next? Will robots build robots to design and construct our personal transporters, whatever they may be? Maybe not right away, but whoa!!! The role of the engineer as we know today will change.

IMAGINE ENGINEERING



Howard Jones, P.E. and Steve Day, P.E. presenting the Imagine Engineering Program to Grove City Christian Elementary. The presentation was done to two classes totaling 54 students.



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ENGINEER FOR A DAY

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 in the past years but we still need interested companies to participate. We currently have 42 openings at companies with a request from the schools for 62 students. If you would be interested in hosting students for the day, Wednesday Feb. 20th, please contact Nancy Mergel, FCC-OSPE Administrative Assistant at 614-863-3134 or email OSPEFCC@aol.com.

NOMINATIONS FOR OSPE 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 1st 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.

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. The candidate must be a registered PE and must be a member in good standing with OSPE.

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. The candidate must be a member of the Ohio House of Representatives or the Ohio Senate.

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. Three firm size categories are available for this award.

Nominations for these awards must be approved by the FCC-OSPE Board in the February 12th Board meeting. Applications are available for some of these award nominations. Contact Tina to obtain the appropriate application and to have the nomination presented to the FCC-OSPE February Board meeting.

Volunteers Needed for MATHCOUNTS

February 16 and March 9

The nation is well aware of the need to prepare our students for the future and the need to increase the number of students graduating in science and engineering. At this time, two thirds of our science and engineering Ph.D. students are foreign born, and many of them return home after graduation. MATHCOUNTS is one of the foremost programs nationwide preparing middle school students for the field of technology. Many of our MATHCOUNTS alumni enter one of the STEM programs (Science, Technology, Engineering and Mathematics) across the State and later pursue advanced degrees.

The Franklin County Chapter (FCC) administers the MATHCOUNTS Regional Competition for central Ohio on February 16, at Columbus State Community College. The FCC competition is one of the largest in the country. The winners advanced to the State Competition on March 9, also held at Columbus State Community College. The Chapter also takes the lead for the State MATHCOUNTS Competition.

The Chapter can use your help. Please volunteer for one of the competitions, both on a Saturday. Contact Joe Bolzenius, joseph.bolzenius@hotmail.com, for the FCC Competition on February 16, and Tina Sutermeister, Tina.Sutermeister@alcatel-lucent.com, for the State Competition on March 9. You may also contact Leon Winget, jolewin2@sbcglobal.net, for further information.

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Get one for your spouse, an associate, friend, son, or daughter who is a Professional Engineer.

Donation \$5.00 Ea. (Plus Shipping and Handling)
Contact: Franklin County Chapter, P.O. Box 69,
Reynoldsburg, OH 43068-0069 or
Email: OSPEFCC@aol.com

Feb-13 - Issue

A History of FCC/OSPE – Peace, Lady Engineers, Treaties and Towers

(This is the ninth issue of the History of Franklin County Chapter, by L.E.Winget, Ph.D., P.E. The content is based on the compilation “A History of FCC”, compiled by Frank Geyer, 1972.)

FY 1953-54 – Peace and Lady Engineers – N.S. Khrushchev was elected First Secretary of the Soviet Communism Party Central Committee, following the execution of L. P. Beria. Beria had followed Stalin as the head of the Soviet Union. Communism delegates and US signed the Korean Armistice at Panmunjom. President Eisenhower began his first term on January 20, 1953.

The Chapter elected E. E. Sanderson as President and E. D. Bader as Vice President. There were nine Directors and 14 Chairs. The dinner meetings were held at the Seneca Hotel, YMCA and the OSU Ohio Union. One dinner meeting included dancing and vaudeville type entertainment. Certificate presentations were held at the November and May meetings. The Women’s Auxiliary hosted the April meeting. The topics were:

- ¹Move Those Barriers (Gordon Carson)
- Activities of Professional Unions (Panel led by C. F. Smith & John Coleman)
- ²Engineers in Civic Affairs (M.E. Sensenbrenner)
- Public Relations – Everybody’s Business (H.K. Sheellenger)
- ³Problems of Our Atomic Era (E.B. Garrett)
- ⁴Getting Results from Engineering Research (C.F. Kettering)
- ¹Why Bother with Ethics (S.M. Issac)

(Carson Gordon, Dean, College of Engineering; M.E. Sensenbrenner, Mayor of Columbus; H.K. Sheellenger, President of The Weimer Organization; E.B. Garrett, Professor of Chemical Engineering; C.F. Kettering; S.M. Issac, President of the Columbus Bar Association. ¹ - Certificate presentations. ² - Hosted by the Young Engineers. ³ - Hosted by Women’s Auxiliary. ⁴ - The First Annual Conference for Engineers, initiated by Dean Carson.)

The Fall Round UP and Ox Roast was held in September at the Cabbage Corners, with 200 members, wives and guests, this included a brief tour of the Hoover Dam construction. The last meeting of the year was the 14th Certificate Presentation by the Chapter. The OSPE Summer Picnic was held at the OSU Golf Course in

June. FCC won the 1953 OSPE Membership Trophy by having over **1,000** members. The Women’s Auxiliary membership had grown to 204.

Katherine Stinson, President of the Women of the Society of Women Engineers, encouraged girls to enter the profession. The first woman engineer was Edith Julia Griswold, an electrical engineer graduate of New York City Normal College, in 1886. In 1948, there were 191 women engineers in the USA. Janice Welch Gulker, an Architect was the only woman to graduate from the College of Engineering on June 1954.

Other items of Interest: FCC approved a resolution that Professional Engineers use the letters PE after their name. The renewal fee for PE’s was \$3.00. Dues for membership were increased to \$21 for PEs and \$10 for EITs. The Ohio Professional Engineers’ Placement Service Inc. placed many engineers in satisfactory positions. Governor Lausche stated that the Director of Highways should be a competent, registered professional Engineer. Floyd Redick was appointed Service Director, City of Columbus.

On the lighter side: The US is the only country where the worker in an automobile factory rides to work in a motor car. Anon - In England, the auto worker rides on a bicycle. In Russia he walks. Anon - “The march of the human race through history has been Bondage, Freedom, Apathy, Dependence, and back to Bondage.”



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Albert Einstein once said that his greatest thoughts were about, “God, Country, Wife, Mathematics, Mankind and Peace,” (I wonder in that order?)

FY 1954-55 – Treaties and Towers – Great Britain agreed to end their occupation of the Suez Canal. The Communist party was outlawed in the US. SEATO, a collective defense pact, was created by alliance of US, New Zealand, Australia, UK, France, Pakistan, Thailand and the Philippines. Sir Winston Churchill resigned as prime minister of Great Britain. Germany and Austria regained their sovereignty. The Warsaw Pact was signed by the USSR and most countries in eastern Europe.

The Chapter elected E.D. Bader as President and F.M. Williams as Vice President. Unfortunately, Mr. Bader died of a heart attack in June, hence Mr. Williams assume the role of the president. The number of Directors had grown to eleven. (The Chairs were not listed.) The dinner meetings were held at the Cabbage Corners, YMCA and the New Ohio Union (OSU). Oh yes, the September meeting included square dancing. Three tours were made: the County Engineer Office including a review of the Columbus Expressway System, the Spring Street-Sandusky Project and the new Westinghouse facility. The topics at the dinner meetings were:

- Columbus Expressway System (Panel headed by A. E. Stilson)
- ¹Things in the Future (C. L. Harrison)
- Tall Towers (John Pausch)
- ²The Advancement of the Young Engineer (Panel headed by Robert Tucker)
- Understanding the Weather (Bob McMaster)
- Creating World Security Under Enforceable Law (S. S. Wyer)

(A. E. Stilson, Head of A.E. Stilson and Associates, C.L. Harrison, Chaplain of the Boys’ Industrial School; John Pausch, President of the IDECO Division, Dresser-Stacey Company; Robert Tucker, Superintendent of the Division of Electricity, Columbus; Bob McMaster, Chief of Electrical Engineering at BMI and TV Weatherman; S.S. Wyer was a guest speaker. ^{1,2} See FY 53-54 above.)

Dresser-Stacey Company (President John Pausch) erected the tallest TV tower in the world, 1570 feet, in Tulsa, Oklahoma. The new Dupont plant in Pickaway

County cost \$12 million. The second Annual Conference for Engineers and Architects, sponsored by the Department of Engineering, OSU, was held in May 1955. General Curtiss LeMay spoke on “Strategic Air Power”. The ratio US of engineers to other workers was 1 to 60. The number of engineering graduates decreased from 41,000 in 1951 to 26,000 in 1955. The Columbus Technical Council (CTC) presented a program entitled “A Man from Mars”, on WBNS-TV. FCC paid dues of \$15 to CTC.

Significant and unique accomplishments by our Engineers: Clyde Williams was appointed to the Atomic Energy Committee, as organized by the US Chamber of Commerce. Alden Stilson was promoted to Brigadier General in the US Corps of Engineers. Floyd Redick was appointed Service Director of Columbus. Zoyd Flaler was appointed State Director of Public Works. In addition, Commodore Peary of North Pole fame, was an officer in the Civil Engineers, Navy.

Other items of Interest: The Westinghouse Plant was completed in Columbus. The president of Westinghouse Electrical Co., stated that the principal shortage of engineers is those with 5 or more years experience. A radio program “The Voice of the Engineer” was presented each Saturday morning over WOSU. Professor Petty, Purdue University, said, “Too many professors emphasize academic freedom but overlook entirely academic responsibility.” Henry Taylor said “Engineers have changed our country from the land of promise to the land of performance.” As a side light, the furlong was 200 meters (~220 yards), the distance that a yoke of oxen could plow without taking a rest.

On the lighter side: Ben Franklin said, “All the Declaration of Independence guarantees is the pursuit of happiness. You have to catch up with it on your own.” Billy Rose, and entertainment tycoon, stated. “I wish the engineers would keep their slide rules out of the few bits of fairy land left in this bollixed-up world.” A sign in the ladies restroom of an aircraft factory; “Girls, if your sweater is too large, look out for the machines; if you are too large for your sweater, look out for the machinists.”

Next: The Hydrogen Bomb and the Space Age

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2013 CALENDAR

Feb. 12	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Feb. 15	5:00 p.m.	Deadline for March <i>Columbus Engineer</i>
Feb. 16	8:00 a.m.	Local Mathcounts Competition @ Columbus State Community College
Feb. 17-23		National Engineers Week (see www.eweek.org)
Feb. 20	8:00 – 3:00 p.m.	Engineer for a Day Program
Feb. 21	11:30 a.m.	Program: E-Week Luncheon
Mar. 12	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Mar. 9	8:30 a.m. – 3:00 p.m.	State Mathcounts Competition (FCC Volunteers)
Mar. 15	5:00 p.m.	Deadline for April <i>Columbus Engineer</i>
Mar. 16		District Science Day
Mar. 16		Spring Certificate Ceremony (OSPE)
Mar 21	Noon	Program: Jim Arnold, P.E. presentation
Apr. 9	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Apr. 15	5:00 p.m.	Deadline for April <i>Columbus Engineer</i>
Apr. 18	Noon	Program: TBA