

# Columbus Engineer

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Ohio and National Societies of Professional Engineers

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## PRESIDENT'S MESSAGE

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



Hello again FCC members. We are now in our third month of activities. Time does fly. This year we are planning on issuing a CE in December. I know December is a busy time of the year, but we have activities developing that we will need your input. I am covering three topics in this issue: 1 – Our November

luncheon; 2 – Imagine Engineering Program (con't); 3 – The Membership Drive (con't).

Our luncheon topic this month is directed toward the unpleasantness of having our electrical power out for an extended period of time. Our speaker, Daniel Rogier from AEP, will cover the damage and needed repairs following a severe storm such as “Derecho”. (See the write on page 2.) This indeed will be a very interesting topic, especially being exposed to the extreme manpower and efforts required to restore the electric power grid. (Have a subject you would like covered during one of our luncheons, please contact **Richard Smelker**.)

As discussed before, the Imagine Engineering Program is now under way. Material is being sent to the elementary schools. We can expect numerous schools to respond. We, as professional engineers, will visit those schools that have requested an engineer to explain our profession. Our booklet that we have available illustrates three different types of engineers; Electrical, Mechanical and Civil, with a hint of software engineering. The Imagine Engineering Coloring Program, sponsored by the Engineering Foundation of Ohio (EFO), established in 1999, is a statewide education program for second graders. This program allows second grade teachers to schedule an in-class visit from a member of FCC. The engineer visits the classrooms in January and February to talk with the children about engineers and their every day activities. The presentation may include reading a classroom guidebook to the students; talking about local engineering

projects, and/or engaging the students in an engineering experiment using everyday items like notebook paper, drinking straws, etc. Sheets are distributed to the teacher, to allow the students to draw and color a picture of an engineering project or an engineer at work. FCC will pick three winners and award the students prizes. The winning posters are then sent to the State for the statewide contest. The students who submit the top three entries in the state will also receive educational prizes. Local members of OSPE present the Imagine Engineering program to approximately 6,500 students each year. You may contact **Devon Seal** ([Devon\\_seal@gspnet.com](mailto:Devon_seal@gspnet.com)) to participate in this program. She will either match you with another engineer, or designate an elementary school for you to visit. Please join us on this fantastic program to introduce our young students to the profession of engineering.

Our membership drive is now under way. **Ron Eifert** is doing due diligence in defining potential candidates. He requested that Carlos Casablanca, Young Engineer Trustee, help in contacting the new EI's. Wish to join in or have a hot lead, contact **Ron**. When enlisting new members it is paramount that they are introduced to the objectives of the Chapter, which are to represent all branches of the engineering profession, residing in the Chapter area as designated by OSPE, with a view to promoting the public interest as affected by the services of the Engineer. The Chapter strives to safeguard and strengthen the professional body for the purpose to advance the scientific, professional and economic interests of the Engineer through research dissemination of technical and scientific information legislation, care of public relations and maintenance of the integrity of the professional practice. In addition, the Chapter cultivates fraternal feeling and cooperation among the members of the profession to secure intelligent unity and harmony of action in cooperation with OSPE and the other 14 chapters in the State. Further advantages of the membership in the OSPE organization may be found at the OSPE site: [ohioengineer.com/index.php/](http://ohioengineer.com/index.php/)

(Presidents Msg. continued on Page 2)

(Presidents Message continued from Page 1)

Become-a-Member/Become-a-Member>. And remember activities of the Chapter include Engineer for a Day, Engineer’s Week, MATHCOUNTS, Science Fair Judging, Scholarships, etc. Oh yes, please let your friends know that all engineers who join FCC/OSPE, receive significant discounts on all of our CPD programs and those offered by OSPE, which may exceed the cost of the membership.

Contact information for all Chapter officers and chairs are listed in the September and October CE. You may review all CE’s, for the past three years, at our web site under Newsletters: <ohioengineer.com/index.php/Become-a-Member/Franklin-County>

Until December, have a great Thanksgiving Day and remember why we give thanks!




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### FCC-OSPE November Luncheon Program

- DATE:** Monday, November 19, 2012
- PLACE:** The Hickory House  
550 Officecenter Place, Gahanna
- TIME:** Registration: 11:30 am  
Lunch: 11:50 am  
Speaker: 12:05 pm  
Closing Remarks: 12:55 pm
- COST:** Advance Reservation: Members: \$20.00  
Non-Members: \$30.00. Call Chapter at 470-4170 or email registration information to OSPEFCC@aol.com by Nov. 15. Please include name and phone number. Pay at the door (check payable to FCC-OSPE)

**PROGRAM:** Restoration of Power following June 29, 2012 ‘Derecho’

**SPEAKER:** Daniel Rogier, Managing Director Transmission East American Electric Power. Dan is currently responsible for Transmission Region Operations for the 6 states that comprise the eastern AEP system as well as the alignment of financial strategies, operations, policy and regulatory plans of Transmission with the AEP east operating companies. He is responsible for assessing the eastern operating companies’ transmissions needs, ensuring coordination of capital plans, and serving as the primary point of contact for senior management. He also



serves as a liaison between AEP transmission and its wholesale customers to coordinate and resolve issues in the planning, engineering, and operation of interconnection facilities.

Dan joined AEP as an electrical engineer in 1982. Following an assignment as a transmission system protection & control engineer, Dan has held a variety of management positions in the transmission, generation, information technology, customer services and distribution organizations within AEP. Dan holds a bachelors degree in electrical engineering from Purdue University and a masters degree in Business Administration from The Ohio State University. Dan is a resident of Westerville, Ohio and is married with two sons.

**ABSTRACT:** You will learn how The AEP Transmission organization quickly organized itself and marshaled the necessary resources to restore service in an expeditious and safe manner. The dedicated and heroic efforts of our employees aside, the storm responders outlined several items that should be pursued to improve our performance in future storms. These items largely address our storm response organization, work processes, and clarity of roles that are required to respond to large storm events. In addition, they outline sound practices that can be employed for all storms .

*A certificate for 1 hour of Professional Development for attending the program will be presented at the luncheon.*

## A History of FCC/OSPE – “The Early Years – Part IV” (The Peace Years, con’t)

(This is the sixth issue of the History of Franklin County Chapter. The content is based on the publication “A History of FCC”, compiled by Frank Geyer, 1972.)

Onward to FCC fiscal year 1947-48 - US Congress passed the Taft-Hartley Labor Bill over the veto of Harry Truman. India and Pakistan gained independence from Great Britain. Palestine was partitioned into a Jewish and Arab State by the United Nations following a brief conflict between the two nations. (Still ongoing.)

OSPE Executive Secretary, Lloyd Chacey, celebrated his 70<sup>th</sup> birthday. The Franklin County Chapter had grown to 520 members. The Chapter President R.M. Keats gave a presentation “That the Engineer Future would not always find his horizons limited to the drafting room, the laboratory or to some disorderly office. The expanding opportunity for the Engineer is calling him to the realm of business and management.” There were 229,000 veterans studying engineering under the GI Bill. The Air Force, Guided Missile Division, predicted that round trips to the moon in manned vehicles, were entirely practicable. (Wow, new meaning of practicable!)

Tours were given at the “new” Delaware Dam and Curtiss-Wright Facilities on East Fifth Avenue.

Topics at the various dinner/luncheon meetings were:

- Construction of the Delaware Dam (following the tour)
- Engineering for Tomorrow
- Specifications for Laying Concrete Pipe
- Riding the V-2 Rocket
- A Professional Inventory of the Engineering Profession
- Curtiss-Wright role in Developing Aviation in the USA
- I’m Proud to be an Engineer
- The Big Walnut Multiple Purpose Reservoir (EPA loves it’s Wetland today)

OSPE recommended that the gasoline tax be used for the construction and repair of roads and streets, via a resolution sent to the Ohio Legislature. Later, such an amendment was adopted in the State Constitution. The Al-Can Highway was open to civilian travel without permits. (However, from my own experience, no one was allowed on the highway without two spare tires and an extra 10 gallon tank of gasoline.) Charles F. Kettering began the investigation, which led to the development of ethyl gasoline by T. Midgley of Worthington, a graduate of OSU. The Jeffrey Manufacturing Company produce considerably amount of machinery for the manufacture of tetraethyl lead. (Boy, how times have changed!)

Famous “engineers”: Movie actor Adolph Menjou was enrolled in Cornell College of Engineering; Sigmund Romberg composer of Student Prince, The Desert Song, et al, received his civil engineering degree from University of Vienna.

The Columbus City Council voted to hire a registered traffic engineer. Under the guidance of OSPE, Common Pleas Court ordered 7 firms owned by E.R. Parker to stop the practice of “Engineering and Surveying” to cease using the terms “Engineeing” or “Surveyor” in connection with names or businesses.

And now to 1948-49 – From July 1948 till November 1949 the Soviets blockaded waterways and roadways to West Berlin, resulting in a massive airlift by the US, supplying the necessities of life and contributed to the eventual end of the blockade. North Korea was proclaimed the Peoples Republic under the influence of Communist China. (Trouble a-brewing!)

Amendments were proposed to the Taft-Hartley Act, freeing engineers from the necessity of joining a union to act on their own behalf as professional employees. However, no action was taken.

The president was Marion T. Jones, (Professor Jones was one of my advisors on my Master thesis.) A tour was made at the Lustron Corporation facilities. (Lustron was the company that manufactured homes, prefab and mostly metal, making it possible to cheaply and quickly construct the needed homes for the WWII veterans. At one time there were several hundred in Columbus but they have since been razed. Many were just northwest of Holt Avenue and Sunbury Road near the present location of Dominion College.) Although, not a Chaper tour, several members visited the GM Ternstedt facility to preview the diesel powered train-of-tomorrow. The controls were quite similar to the average large semi-truck.

The Chapter meetings were held at the Beechwold Restaurant, Fort Hayes, and Southern Hotel. Dinner costs range from \$1.50 to \$2.00. Note starting salaries for engineers range from \$2800 to \$4000 annually. Several members were still assigned to various military facilities, both in and out of the state.

Topics for speakers were:

- Problems encountered in the manufacturing of vitreous panel material for the prefab homes (by Lustron)
- Public Affairs by a Columbus Dispatch reporter
- Research as Conducted by the Bureaus of Standards
- Professional Aspects of Engineering
- Army Engineers in Training and Combat
- Combat Engineers construction of bridges, highways and railroads
- Preparation and Cooking of Frozen Foods by General Electric

The Jeffrey Manufacturing Company built a mining device “Col-Mol” that could mine coal at the rate of 100 tons per 6½-hour shift, displacing several dozen miners. The State of Ohio established a committee to authorize the collection of tolls on the super highway built in northern Ohio, without an engineer on the committee.

## HIGHLIGHT THE PRACTICE DIVISIONS: PEC

This month's highlighted Practice Division is the Professional Engineers in Construction or more commonly known as, PEC. The objectives of the PEC Practice Division shall be to support the aims of the National Society of Professional Engineers, advance the public welfare, promote the professional, social and economic interest of the engineer member, and to encourage and develop a professional attitude among all engineers.

Establishing and maintaining high standards of competence and ethical conduct, and continuing the encouragement of licensure of all engineers shall meet these objectives.

The PEC Practice Division encourages the licensure of all engineers through the following activities locally, statewide, and nationally:

- a. Supporting the development of legislative and administrative policy which best serves the public and the profession.
- b. Encouraging participation in community and civic affairs.
- c. Promoting public appreciation of the work and achievements of engineers.
- d. Advancing the professional development and economic interests of professional engineers through sound employment practices.
- e. Providing membership services as appropriate.
- f. Affirming faith in and support of the free enterprise system.

- g. Managing Practice Division finances in a business like manner to strengthen and provide continuity.
- h. Continually improving the strength of the Practice Division and its service to the membership.
- i. Promotion of Continuing Education.
- j. Networking.

The PEC Practice Division has a select group of construction-related firms that have continually demonstrated and recognized the value of Professional Engineers in the modern construction process and supports the efforts of the PEC to advance the quality of the constructed environment. The PEC Sustaining Firm in Ohio is:

Alber & Rice, Inc.  
17138 Lorain Ave., Ste. 209  
Cleveland, OH 44111-5538

If your firm would like to become a sustaining firm, please [Download an application](#) from the NSPE Website and mail it, or fax the form to Janelle Coleman at 703-836-4875

The current PEC Trustee for the Franklin County Chapter is Kevin Ernst, P.E. ([kmernst@terracon.com](mailto:kmernst@terracon.com)) and the OSPE PEC Trustee is David Dexter, P.E., FASPE ([dexterdd@aol.com](mailto:dexterdd@aol.com)). Please contact either Kevin or David if you desire any additional information about this Practice Division. Also for additional information concerning PEC, please refer to the PEC section of *The Engineering Times*.



"FCC Luncheon/Seminar October 25, 2012 - Spaghetti Warehouse"

Chapter members and non-members participating in a presentation on "Introduction to Quality Assurance - Much More Than an Inspection System" and "Quality Assurance - Predictive and Strategic" presented by Ms. Cynthia Reichardt, CMQ/OE, Sr. Quality Manager, Department of Homeland Security Transportation Security Administration. Ms Reichardt joined the Transportation Security Administration, Arlington, VA, in 2007, as TSA's Sr. Quality Manager, she leads an effort to design and implement a Quality Strategy to procure and manage all TSA Security Equipment. She is a graduate of the U.S. Naval War College, Newport, RI and a Level III certified in Production, Manufacturing and Quality Assurance. Ms Reichardt is a recipient of the Vice Presidential Hammer Award and the President's Quality Management Award.

## Professional Engineers in Industry 2013 OSPE/PEI New Product Award

New and improved products stimulate the life and growth of our country. These benefits result from research and development to which engineers make their unique contribution. This competition recognizes the results of those efforts and the foresight of the companies whose aggressive policies bring new products to the marketplace.

The purpose of the OSPE/PEI New Product Award program is to recognize the full spectrum of benefits that come from the research and engineering of new products. These include added employment, economic development, strengthening of the nation's competitive position internationally, and contribution to the public's standard of living.

Any new product, machine, process, or material that has been developed in the state of Ohio may be entered provided that it was first placed on the market between Sept. 1, 2009 and Sept. 1, 2012.

Nominations are grouped by company size, and winners will be selected in each of the following four firm sizes:

- Small – up to and including 50 employees.
- Medium – 51 to 200 employees.
- Large – 201 to 9,999 employees.
- Mega – 10,000 or more employees.

PEI members are encouraged to help identify candidates for the new product award in the Franklin County Chapter area. Please contact Steve Wilson with any questions at (614)552-1714 or by email at [fwilson@aep.com](mailto:fwilson@aep.com).

Applications should be submitted to OSPE by Mar. 31, 2013. The normal \$100.00 application fee is being waived for this year. Ohio awards will be recognized in the news media and in the OhioENGINEER magazine.

More information and the official entry form can be found at the following OSPE website after logging in:

<http://ohioengineer.com/index.php/Member-Access/Getting-Ahead>

## NOV. AUXILIARY MEETING

The Auxiliary to the Franklin County Chapter of OSPE has scheduled the annual philanthropic event for Tuesday, November 13 (note earlier date) at LaScala Restaurant, 4199 W. Dublin-Granville Rd., Dublin. The day will begin at 11:00 a.m. with a bake sale and small treasures table. Following the noon luncheon will be a raffle of mystery wrapped packages donated by the members. Tickets will be sold that day. Guests are always welcome and can make a reservation with Jean Mitchell, 262-7071. For more information contact Agnes Benedict, 262-7346, or Barbara Fuller, 880-9221

Jane Smith will give the invocation and lead the pledge of allegiance. Sharon Eifert is the hostess.

All funds raised go toward scholarships for engineering students at OSU. Contributions are welcome any time and may be sent to:

Agnes Benedict  
446 Canyon Dr. N.  
Columbus, OH 43214

## DEC. AUXILIARY MEETING

The December meeting is a noon luncheon scheduled for Tuesday, December 11. (note earlier date) at the Scioto Country Club, 2196 Riverside Dr. Program will be a return appearance of the Grandview High School Singers under Andrew Grega, Director of Choral music. Their superb performance would be especially enjoyed by guests. Again, for a reservation call Jean.

Elizabeth Vaughn will give the invocation and lead the pledge of allegiance. Nancy Roehrs is to be hostess.

The Auxiliary does not meet in January, but we look forward to seeing members and any guests in February, 2013.



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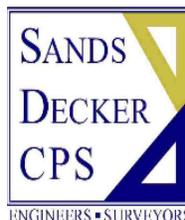
**2012-2013 CALENDAR**

Nov. 13	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Nov. 15	Noon	Deadline for December <i>Columbus Engineer</i>
Nov. 19	Noon	Program: Luncheon – Dan Rogier -Topic
Dec. 11	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Dec. 15	5:00 p.m.	Deadline for January <i>Columbus Engineer</i>
Dec. ??	Noon	<b>Program: Luncheon – TBA</b>
Jan. 8	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Jan. 15	5:00 p.m.	Deadline for February <i>Columbus Engineer</i>
Jan. 17	Noon	<b>Program: Luncheon – TBA</b>

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