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# Columbus Engineer

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## PRESIDENT'S MESSAGE

By Steven F. Wilson, PE, FCC President



Out with the old and in with new! The New Year always presents both an opportunity to review the passing year and an opportunity to move forward, improving based on experience, and fine tuning to make certain

goals are achieved as planned. It also presents new

opportunities to get involved in the activities of your FCC chapter, OSPE, and EFO.

Remember that volunteers are needed for the "Imagine Engineering" second grade coloring contest. Professional engineers get a critical opportunity to introduce young minds to the possibility of having a

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## OSPE-FCC JANUARY LUNCHEON PROGRAM

- Date:** Thursday, January 15, 2015
- Place:** La Scala Restaurant  
4199 W. Dublin Granville Rd.,  
Dublin
- Registration:** 11:30 am
- Lunch:** 11:50 am
- Speaker:** 12:00 pm
- Closing Remarks:** 1:00 pm
- Cost: Members:** \$20.00 & Non-Members: \$30.00.

**Registration:** Visit [fccospe.com](http://fccospe.com). Pay at door or online at ([www.fccospe.org](http://www.fccospe.org)). No access to computer contact Jim Arnold, 614-299-2133, to help with registration.

**Program: Research Initiatives at Ohio University's Air Quality Center.** Because of its plentiful coal and water resources, the Ohio River Valley has been nicknamed America's Electric

Breadbasket. However, the inexpensive and plentiful electricity on which we depend for our economic vitality has come at a price. Fine particulate matter, acid aerosols and ozone air pollution, and mercury deposition and a global increase in greenhouse gas emissions are major environmental problems that we face as a result of our use of coal.

To address these wide-ranging problems, there is a great need for collaboration in energy, economics, and environmental research, which is inherently multidisciplinary in nature. Energy issues are complex, subject to community, regional, national, and global pressures, and they play out in the context of economics, legislation, human health, environmental health, and technological limits.

The need for such work has never been greater in the State of Ohio. Federal pollution legislation, litigation against regional power producers, and electric deregulation resulting in the defunding of

(OSPE-FCC Jan. Luncheon program continued on page 2.)

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future in engineering. Volunteers are needed now to visit the schools that have registered. Please contact Devon Seal, PE, at devon\_seal@gspnet.com, or by phone to (614)221-0678.

EFO is in need of volunteers to support the upcoming MATHCOUNTS competitions, a middle school program that encourages students to develop the math skills required by potential future engineers. If you would like to help, please contact Joe Bolzenius, PE, at joseph.bolzenius@hotmail.com, and watch the "Columbus Engineer" for dates and times.

Finally, there are always more projects than judges for the upcoming Science Day competitions. Again, dates and times will be announced but it is up to you to volunteer, mark your calendars, and take advantage of the opportunity to give back to the next generation of future engineers.

**FCC Auxiliary Meetings**

**There will be no meetings in January or February.**

**Save Tuesday, March 1.**

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(OSPE-FCC Jan. Luncheon program continued from page 1.)

the Electric Power Research Institute emphatically underscore the need for an organization to coherently address the broad issues of energy production - an organization that can credibly interface with power generation utilities, environmental organizations, industry and governmental agencies. Ohio University has taken on the challenge of serving as a resource for this region with the purpose of helping the states to work together to reduce air pollution.

Energy and the environment have been identified as one of the core strengths or focus area for Ohio University's research efforts. The Center for Air Quality plays a central role in that mission. The Center as part of the Institute for Sustainability Energy and the Environment (ISSE) and the Consortium for Energy Economics and the Environment (CE3) has been addressing energy and environmental issues in the state and the region. This includes research on several key air quality and energy issues involving mercury, ozone, fine particulate matter, pesticides and carbon. The presentation will cover projects that the Air Quality Center is currently involved with and future challenges faced by the state and region with respect to air quality.

**Presenter:** Kevin Crist, Ph.D., Director of the Air Quality Center, Ohio University.

Kevin Crist is a Professor of Chemical Engineering and the Director of the Air Quality Center at Ohio University and served on the leadership team for the Voinovich School of Leadership and Public Affairs at Ohio University. In addition he is one of the founding members of Ohio University's Consortium for Energy, Economics and the Environment (CE3).

Dr Crist has led numerous major research projects related to emission inventory analysis, atmospheric modeling and monitoring. He has over 30 years of experience in the environmental field including serving as an environmental manager and environmental engineering consultant for several major corporations.

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

## HOW TO LEAD\*

Are you a leader by nature?

Leadership and leader management can be learned.

Being a leader is primarily about having influence. Some have authority and don't exhibit leadership. They are in the role and don't exercise it.

When does the journey start?

Working toward a PE license engineers gain experience and growth. Some experiences come outside the confines of the engineering firm.

Leadership is about setting goals, generating resources, moving beyond simply executing tasks.

Don't concern yourself with obtaining content knowledge, then experiential knowledge.

It's a concurrent process, a long journey.

NSPE and other societies are good avenues for developing leadership abilities.

Entry level engineers can seek leadership roles appropriate to their experience levels.

A leader appeals to an individual's higher level aspirations. You must be honest and have integrity. You must do what you say you will do.

Young engineers – take stock of what is happening in your work environment and community.

Can work projects be managed better? Is the company active enough in the community?

Engineers may face unique challenges. Traditional undergraduate programs haven't always addressed leadership development.

Engineers, conservative by nature, may fear failure. This conservative nature must be overcome.

Engineers must develop confidence in their ability to lead and accomplish goals, to display and maintain a good level of confidence.

Young engineers need to stay open minded, look for opportunities to grow as leaders, join professional organizations, assume responsibilities as committee chairs, board members.

Experience leadership; learn what it's like to be in charge and the expectations put on leaders.

When you participate in organizations such as NSPE you build confidence and expertise.

Each leadership opportunity is a chance to grow.

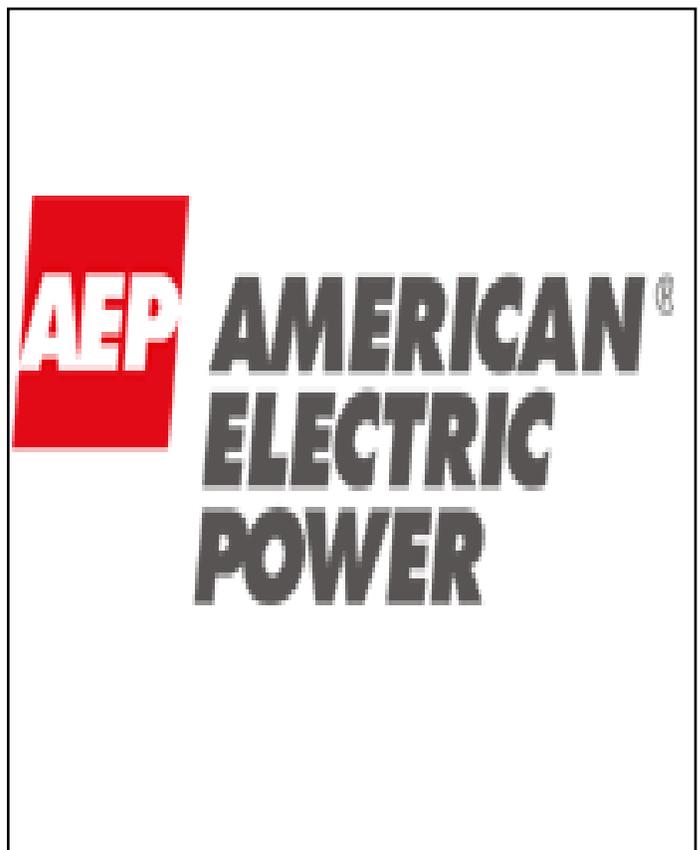
Young engineers should experiment outside of work to help alleviate a fear of failure. Volunteer to serve on a local municipal committee.

Engineers who want to be leaders should watch within and outside the workplace for people who are effective leaders, not just charismatic and dynamic leaders. Effective leaders are all around us.

Study effective leaders to gain insight on leadership.

Young engineers have to be proactive to hone their leadership skills. Senior engineers should serve as examples. Senior engineers should work with and help young engineers get where they desire to be.

\*From Danielle Boykin - PE magazine Feb 2013.



## LICENSURE\*

PE licensure is the engineering profession's highest standard of competence, a symbol of achievement and assurance of quality. NSPE provides its members, whether already licensed or soon-to-be licensed, with the information and resources they need to earn and maintain the respected PE seal. NSPE does not license PEs. Licensing authority and requirements for PEs falls under the jurisdiction of the licensing board for the state, district, or country in which an engineer practices. The national organization that represents the state boards is the National Council of Examiners for Engineering and Surveying (NCEES) <http://ncees.org/>

\* Excerpt from NSPE Website on Licensure




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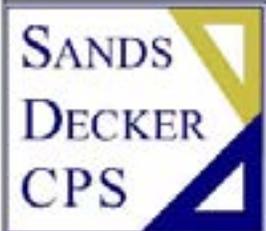

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## 2014-15 CALENDAR

Jan. 13	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Jan. 14	5:00 p.m.	Deadline for February Columbus Engineer
Jan. 15	Noon	Luncheon – <b>Air Quality Monitoring and Modeling</b> by <b>Kevin Crist, Chemical Engineer, OU</b>
Feb. 8	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Feb. 14	5:00 p.m.	Deadline for March Columbus Engineer
Feb. 21	8:00 a.m.	Local Mathcounts Competition @ Columbus State Community College
Feb. 22-28		National Engineers Week (see <a href="http://www.eweek.org">www.eweek.org</a> )
Feb. 25	8:00 – 3:00 p.m.	Engineer for a Day Program
Feb. 26	11:30 a.m.	E-Week Luncheon at <b>Bridgewater Banquet &amp; Conference Center</b>
Mar. 7	8:30 a.m. – 3:00 p.m.	State Mathcounts Competition (FCC Volunteers)
Mar. 10	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Mar. 13	5:00 p.m.	Deadline for April Columbus Engineer
Mar. 19	Noon	Luncheon - <b>Transportation, Traffic and Work Zone Safety</b> by <b>Deb McAvoy, CE, OU</b>
Mar. 21		Spring Certificate Ceremony (OSPE)
Mar. 21		District Science Day
Apr. 14	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Apr. 15	5:00 p.m.	Deadline for May Columbus Engineer
Apr. 16	Noon	Luncheon - <b>Oil and Gas Pipeline Corrosion</b> by <b>Srdjan Nestic, Chemical Engineer, OU</b>
May 12	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
May 16	5:00 p.m.	Deadline for June Columbus Engineer
May ??	6:30 p.m.	Annual Spring Banquet / Officer Installation
June (TBA)		Annual Spring Leadership Conference
July (TBA)		FCC Budget Meeting Location to be announced

Korda Nemeth Address: 1650 Watermark Dr Ste 200, Columbus, OH 43215

### WHERE DO I GET MORE INFORMATION?

FCC-OSPE Office e-mail & phone number:	<a href="mailto:ospfcc@aol.com">ospfcc@aol.com</a>	614-470-4170
FCC President E-mail & Phone:	<a href="mailto:sfwilson@aep.com">sfwilson@aep.com</a>	614-552-1714
OSPE WEBSITE:	<a href="http://www.ohioengineer.com">www.ohioengineer.com</a>	
NSPE WEBSITE:	<a href="http://www.nspe.org">www.nspe.org</a>	
To Volunteer to help with MATHCOUNTS:	<a href="mailto:jbolzenius@patrickco.com">jbolzenius@patrickco.com</a>	614-498-0339
FCC Luncheons / Programs:	<a href="mailto:lewinget@att.net">lewinget@att.net</a>	614-267-9692
New Members / Membership Applic.	<a href="http://www.nspe.org">www.nspe.org</a> or <a href="http://www.ohioengineer.com">www.ohioengineer.com</a>	614-223-1144

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