

DAYTON SOCIETY OF PROFESSIONAL ENGINEERS

DEDICATED TO THE PROMOTION OF THE PROFESSION OF ENGINEERING

THE DAYTON ENGINEER

VOLUME 7, ISSUE 4

APRIL 2016

National Tartan Day—6 Apr
Tax Day—18 Apr
Arbor Day—29 Apr



A state society of the National Society of Professional Engineers



THOUGHTS FROM THE CHAPTER OFFICERS' SECTION

Our Dayton Society of Professional Engineers (DSPE) is growing as we had fourteen (14) new members join in 2015! Eleven (11) of those new members are students attending engineering programs at the UD or Wright State. These engineering students will continue the service of engineers to their communities' general health, safety, and welfare and will put today's theories into practice for the overall good of society! The interest expressed by these engineering students present a wonderful outreach opportunity to our Society's experienced

members to exemplify the Engineers Creed and Code of Ethics to those that will carry the profession into the future. Certainly, by joining DSPE, these students are looking forward to networking opportunities. And speaking of networking opportunities, our annual OSPE (Ohio Society of PEs) meeting is coming up in early June at the Cleveland Airport Marriott. Hotel rooms are being held for OSPE attendees through May 5th. Twelve and a half CPD hours will be available at the conference! And speaking of CPDs, thanks to Bill Horst, P.E., from

Montgomery County Environmental Services, and John Norton of Norton Engineering, LLC, for providing our two March luncheon topics, filling in on the spur of the moment with two presentations. Please continue to read the remainder of the newsletter for more details on those topics and information on upcoming luncheon programs about Energy Storage Systems, Ongoing and Upcoming Transportation Projects, and Conversion of C-17 and C-130H Aircraft Fuselages! — Winn Holcombe, P.E., Vice President

2016 OSPE SPRING CPD CONFERENCE AND ANNUAL MEETING



The 2016 Spring conference, themed **Exploring Future Frontiers**, will be conducted at the **Cleveland Airport Marriott**, Thursday, 2 June, through Saturday, 4 June. The conference is designed to provide up to 12.5 CPD hours for full participation in the engineering fellowship and quality continuing Education. For the lowest possible rate, register

by Thursday, 26 May; please register on-line at: <http://tinyurl.com/jpgdbru>, or call 614.223.1144 to register. Make hotel reservations at: <http://tinyurl.com/zyewxvd>; the special daily rate of \$104 will be held until 5 May 2016, or call 1.800.228.9290.



UPCOMING CHAPTER MEETINGS

APRIL DSPE MEETING—14 APRIL 2016



The April 2016 DSPE Chapter meeting will be on 14 April from 12:00 noon to 1:30 PM at the

Engineers Club of Dayton, 114 Monument Ave, Dayton, OH 45402. Mr. Mark S. Sizemore, Dayton Power & Light, will discuss the battery arrays used for voltage regulation and the peaking facility, both of which are at the Tait Station. A buffet lunch will be served. The cost is \$20 for members, \$30 for nonmembers

and \$10 for students. Attendees will receive one (1.0) Professional Development Hour (PDH). Those wishing to attend should make your reservations no later than Tuesday, 12 April 2016 with Ed Schlaack by email at SchlaackE@mcoho.org or by phone at (937) 781-2632 (office) or (937) 885-9633 (home).

MAY DSPE MEETING—12 MAY 2016

The May 2016 DSPE Chapter meeting will be on 12 May from 12:00 noon to 1:30 PM at the Engineers Club of Dayton, 114 Monument Ave, Dayton, OH 45402. Our regional county engineers and a representative from ODOT will provide an

annual update on ongoing and upcoming projects in their areas. A buffet lunch will be served. The cost is \$20 for members, \$30 for nonmembers and \$10 for students. Attendees will receive one (1.0) Professional Development Hour (PDH). Those wishing to attend

should make your reservations no later than Tuesday, 10 May 2016 with Ed Schlaack by email at SchlaackE@mcoho.org or by phone at (937) 781-2632 (office) or (937) 885-9633 (home).



JUNE DSPE MEETING—9 JUNE 2016



The June 2016 DSPE Chapter meeting will be on 9 June from 12:00 noon to 1:30 PM

at the Engineers Club of Dayton, 114 Monument Ave, Dayton, OH

45402. Mr. Brian Pollock, Senior Acquisition Official, and Colonel Annette Gablehouse, USAF, 711th Human Performance Wing, will discuss the conversion of two aircraft fuselages to aerospace medical training platforms. A buffet lunch will be served. The cost is \$20 for members, \$30 for nonmembers and \$10 for students.

Attendees will receive one (1.0) Professional Development Hour (PDH). Those wishing to attend should make your reservations no later than Tuesday, 7 June 2016 with Ed Schlaack by email at SchlaackE@mcoho.org or by phone at (937) 781-2632 (office) or (937) 885-9633 (home).

UPCOMING DSPE BOARD OF DIRECTORS MEETINGS

The next DSPE Board meetings will be on 12 April and 10 May 2016 from 5:15 to 6:30 PM at the Wright State University Engineering and Computer Science Dean's office conference room.

OUR THANKS TO BILL HORST, PE, AND JOHN NORTON, PE, BCEE

Due to a logistics error, our scheduled speaker for our March



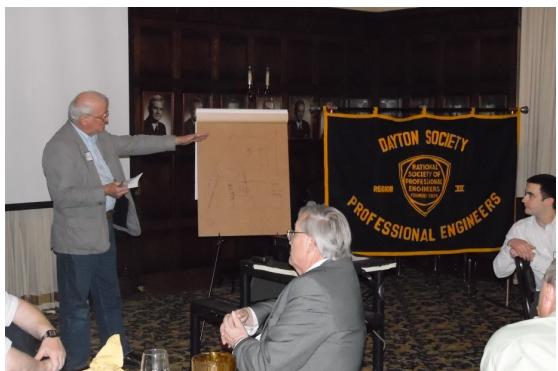
meeting couldn't attend. However, as is typical of our super DSPE members, Bill Horst, PE, and John Norton, PE, BCEE, stepped up, with only a moment's notice (literally) and delivered some case studies for our chapter's edification to fulfill our CPD requirement for technical topics. Bill Horst discussed some of the technical challenges and solutions that led to the management

decisions to convert a number of solid waste vehicles from diesel to compressed natural gas (CNG). He described some of the physical vehicle modifications necessary to accommodate the change, such as fuel tank size and positioning, and he described the newly built CNG fueling station. John Norton presented some case study vignettes from his experiences which pointed out a number of

lessons learned as his company dealt with some Association of Land Transfer Agencies (ALTA) surveys and expert witnesses. His takeaways from the experiences were: 1) Always pay attention to the details of an ALTA survey; and, 2) Never take a job as a courtroom expert witness, if you

really aren't one.

[Editor's Note: My takeaway from this meeting, from attendees' comments, was that, even though we don't plan for this logistical error to happen again, our program committee would like to encourage chapter meeting attendees to have a "hip-pocket presentation" with them at the meetings. You never know when you may get shoulder-tapped!]



THE CALENDAR: DSPE, EFO AND OSPE

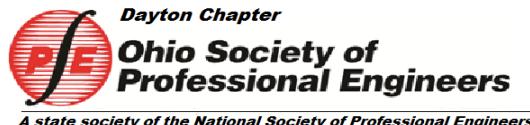
09 Apr	State Scholarship Application Grading
12 Apr	DSPE Board Meeting, Wright State University Engineering Dean Conference Rm
14 Apr	DSPE Chapter Meeting, Dayton Engineers Club
29 Apr	EFO Benefit Golf Outing, Safari G.C., Powell, OH
1-31 May	DSPE Board of Directors Elections
3 May	Ohio Engineers Legislative Day, 5 CPD hours, Sheraton Columbus at Capitol Square
7-10 May	National MATHCOUNTS, Washington, D.C
10 May	DSPE Board Meeting, Wright State University Engineering Dean Conference Rm
12 May	DSPE Chapter Meeting, Dayton Engineers Club
2-4 Jun	OSPE Spring CPD Conference, Cleveland Airport Marriott
9 Jun	DSPE Chapter Meeting, Dayton Engineers Club
14 Jun	DSPE Board Meeting, Wright State University Engineering Dean Conference Rm
22-26 Jun	NSPE Professional Engineers Conference, at the Fairmont Dallas

DAYTON CHAPTER—OHIO
SOCIETY OF PROFESSIONAL
ENGINEERS

4367 Sillman Pl.
Kettering, OH 45440-1140

Phone: 937-225-6040
Fax: 937-496-7441

WE'RE ON THE WEB!
WWW.DSPE.ORG



OSPE is dedicated to the advancement of professional engineers in Ohio and is the single most powerful voice representing all disciplines within the engineering profession. The Dayton Society of Professional Engineers, is a chapter of the OSPE serving the local Dayton Region. DSPE aspires to conduct a monthly chapter luncheon meeting that will serve our members by providing an opportunity to come together to share professional experiences, to network, and to gain continuing professional development through interesting presentations on a variety of technical, management, and ethics topics on all engineering disciplines.

— Jon Wheeler, Director, Newsletter Editor

FINANCIAL CONTRIBUTIONS TO HELP MEET CHAPTER MISSION



Our chapter activities are focused on youth education and scholarships and include **2nd Grade Coloring Contest via ImagineEngineering**, and **Middle School MATHCOUNTS**. These are our Society's flagship events to bring to our youth an awareness of the value of science,

technology, and especially the engineering profession. It requires hands-on participation and financial contributions from our members, that's you and me. Your personal and corporate financial contributions are solicited through our Engineers Foundation of Ohio (EFO) to help us host these events on a local, state, and national level (except for the coloring contest). Please consider making a personal

contribution and soliciting from your company, if they have a community relations department. Contributions through EFO are fully tax-deductible. Please contact us for the tax ID number for your records. Even more important for the success of these events is your hands-on participation. Please contact a board member for opportunities.

ASC—OUTSTANDING ENGINEERS & SCIENTISTS AWARDS BANQUET



Each year, the **Affiliate Societies Council** of Dayton recognizes outstanding engineers and scientists in the Miami Valley as

part of the activities of Engineers and Scientists Week. These engineers and scientists are honored for important contributions to their professions at the Annual Awards Banquet. The Awards Committee receives nominations from Miami Valley companies, educational institutions, professional societies and individuals. Selections are

made by the Awards Committee in cooperation with the member societies. The 57th Annual Banquet and Awards Ceremony will be held in the **Meyer Room** at the **University of Dayton's River Campus**, 1700 Patterson Blvd. on **Thursday, April 21, 2016**. Please contact the Council office for more details at: office@ascdayton.org.