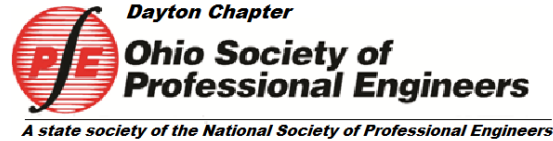


DAYTON SOCIETY OF PROFESSIONAL ENGINEERS

# THE DAYTON ENGINEER

VOLUME 6, ISSUE 3

MAY/JUNE 2015



## DSPE BOARD OF DIRECTORS MEETINGS—MAY AND JUNE 2015

The next DSPE Board meetings will be on 12 May and 9 June 2015 from 5:15 to 6:30 PM at the Wright State University Engineering and Computer Science Dean's office conference room.

## MAY DSPE CHAPTER MEETING—14 MAY 2015

The May DSPE Chapter meeting will be on 14 May 2015 from 12:00 noon to 2:00 PM at the Engineers Club of Dayton, 114 Monument Ave, Dayton, OH 45402. This month, Mr. Randy Chevalley, P.E., P.S., ODOT District 7 Deputy Director, Mr. Paul Gruner, P.E., P.S., Montgomery County Engineer, Mr. Bob Geyer, P.E., P.S., Greene County Engineer, Mr. John Burr, P.E., P.S., Clark County Engineer, and Mr. Gary Middleton, P.E., ODOT District 8, Acting Deputy Director, will present the "ODOT & County Engineers' Update". A buffet lunch will be served. The cost is \$20 for members, \$30 for nonmembers and \$10 for students. Attendees will receive one and a half (1.5) Professional Development Hours (PDH). The Engineer's Club of Dayton is located at 110 East Monument Ave, Dayton, OH. Those wishing to attend should make your reservations no later than Tuesday, 12 May 2015 with Ed Schlaack by email at [SchlaackE@mcohio.org](mailto:SchlaackE@mcohio.org) or by phone at (937) 781-2632 (office) or (937) 885-9633.



## JUNE DSPE CHAPTER MEETING—11 JUNE 2015

The June 2015 DSPE Chapter meeting will be on 11 June 2015 from 12:00 noon to 1:30 PM at the Engineers Club of Dayton, 114 Monument Ave, Dayton, OH 45402. The June topic will be announced via separate email. Attendees will receive one (1) CPD for full attendance. A buffet will be served at noon with the panel discussion to follow. Please send your RSVP no later than Tuesday, 7 April 2015 to Ed Schlaack by email at [SchlaackE@mcohio.org](mailto:SchlaackE@mcohio.org) or by phone at (937) 781-2632 (office) or (937) 885-9633 (home).

## DSPE BOARD ELECTION OFFICERS' AND DIRECTORS' ROLES

May is our Dayton Chapter's regular election month. We have undertaken a significant effort to perform a strategic assessment to determine where we are today and where we believe the chapter needs to focus in order to become a thought leader in our region in the future. For that reason, and others, the Dayton Chapter Board of Directors felt it would be conducive to our strategic efforts to nominate the current (2014-2015) Board of Directors to maintain their present positions for the next year (2015-2016) to mature our strategic focus for the future. Of course, this can only be accomplished with your concurrence through the 2015-2016 ballot, on the following page. Please exercise your chapter duties and vote between 1 and 31 May. Instructions for returning your ballot (email, fax, or hard copy) are shown at the bottom of the ballot. DSPE Officers and Directors and their respective roles, per our chapter Constitution and By-Laws are shown below:

**President:** The President shall preside at all meetings of the Chapter and the Board of Directors. The President shall appoint committees as provided in By-Law II and shall appoint a delegate to the Affiliate Societies Council for a two-year term.

**Vice-President:** The Vice President shall preside at meetings in the absence of the President and shall chair or serve on standing committees as appointed by the President.

**Secretary:** The Secretary shall keep an accurate record of all proceedings of the Chapter. The Secretary shall maintain previous records and archival information of the Chapter in a secure and orderly manner. The Secretary shall prepare, distribute, and receive the ballots for DSPE elections as described in By-Law V. The Secretary shall also maintain a roster of attendance and minutes of all Board Meetings; these shall be available for inspection of any voting member in good standing upon request. The Secretary shall chair the Newsletter Committee and shall oversee the newsletter's editing, publishing, and distribution.

**Treasurer:** The Treasurer shall maintain a set of books showing the receipts and disbursements of DSPE, and verify records of dues paid by Chapter members. The Treasurer shall have custody of all funds of the Chapter and shall deposit same as directed by the Board. The Treasurer shall submit reports of financial transactions to the Board on a regular basis and prepare an annual report of the year's business, which shall be audited or reviewed as directed by the By-Laws.

**State Director:** the State Director shall be the representative of the Chapter on the OSPE Board of Directors. He shall present Chapter positions to OSPE and maintain communications between the Chapter and OSPE. He should attend OSPE Board meetings and report back to the Chapter on Board actions and decisions.

**Director:** the Directors shall meet and transact the general business of the Chapter. The Directors shall serve on committees and participate in the Chapter activities as may be prescribed elsewhere, by the Constitution and By-Laws.

## DSPE OFFICIAL BALLOT 2015-2016

POSITION	NOMINEES	VOTE
PAST PRESIDENT	Vanessa Glotfelter, P.E.	
PRESIDENT (vote for 1)	Steve Schultz, P.E., P.S.	
VICE-PRESIDENT (vote for 1)	Winn Holcombe, P.E.	
SECRETARY (vote for 1)	Ken Hemmelgarn, P.E.	
TREASURER (vote for 1)	Joseph R. Pokorski, P.E.	
STATE DIRECTOR	James Montgomery, P.E.	
DIRECTORS (vote for 3) to Begin 1st of 2 Year Term	Lisa Helmstetter, E.I.	
	Aurea Rivera, P.E.	
	Taylor Van Vliet, E.I.	
	(or write in)	
DIRECTORS Serving Second Year of 2-Year Term	Paul Gruner, P.E., P.S.	
	Richard Henry, PhD, P.E.	
	Jon Wheeler, P.E.	

VOTER'S NAME	
NSPE MEMBER ID#	

**PLEASE RETURN YOUR BALLOT BY MAY 31, 2015**

Vote by FAX:	(937) 781-2686 ATTN: Ed Schlaack
Vote by E-MAIL:	<a href="mailto:montgomeryj@ameritech.net">montgomeryj@ameritech.net</a>
Vote by MAIL: return ballot to	DSPE 2015-2016 Ballot 4367 Sillman Place Kettering, OH 45440

## OHIO ENGINEERS LEGISLATIVE DAY—6 MAY 2015



[Courtesy: OSPE] OSPE will sponsor the Ohio Engineers Legislative Day on Wednesday, 6 May 2015, at the Capital Club, 41S. High Street, Columbus, OH 43215, from 8:40 AM

until 2:20 PM. 5 CPD hours will be available for all-day attendees. Topics include: **“Working with Government Entities for Maximum Impact”**, **“Legislative Update”**, **“Ways to Cure Ohio’s Lake Pollution”**, **“Project Status Update”** (by Ohio Turnpike Commission), **“National Transportation Funding”**, and **“Plan Stamping and Industrial Exemption Update”**. OSPE and ASCE members will be able to register for 30% off the regular registration fee. Registration will open soon. If you have questions, please call OSPE at 614.223.1144 (Columbus area), or 800.654.9481 (Ohio only).

## SPRING CPD CONFERENCE AND ANNUAL MEMBER MEETING—11-13 JUNE 2015



[Courtesy: OSPE] OSPE and the Cincinnati Chapter will host the Ohio Spring CPD Conference & Annual Member Meeting from Thursday, 11 June through Saturday, 13 June, 2015, at

the Holiday Inn Hotel & Suites Cincinnati-Eastgate. 12.5 CPD hours will be available for full attendance. Topics include: **“Streetcar Engineering: Managing the Push & Pull from Many Directions”**, **“I-75 Mill Creek Expressway Projects”**, **“Operation of the Office of County Engineer”**, **“Advocating Thoughtful Use & Preservation of Local Hillsides”**, **“Permanent Canal Closure Pump Station”**, **“Workplace Culture: Why It Matters & How It Affects Performance”**, **“Engineers, Sustainability for Buildings & LEED”**, **“Succession Planning for Collection Systems”**, **“Radial Shaft Seals: Design, Theory, Selection and Installation”**. There will also be two technical tours available on Friday afternoon for CPDs: **Tour #1—Meldahl Hydropower Plant**, **Tour #2—MillerWater Treatment Plant, Mill Creek Waste Water Treatment Plant, and The Mill Creek Barrier Dam**. Guest tour packages will also be available on Friday and Saturday to some of the interesting points in the Cincinnati area. OSPE and ASCE members will be able to register for 30% off the regular registration fee. Register online at [REGISTER HERE](#) or, if you have questions, please call Mr. Joe Cherry, P.E., President OSPE, at (614)-223-1144, or email [ospe@ohioengineer.com](mailto:ospe@ohioengineer.com).

## 2015 MATHCOUNTS RESULTS

The Dayton Chapter of the Ohio Society of Professional Engineers hosted the 2015 MATHCOUNTS at the University of Dayton on Saturday March 7, 2015. Eighteen schools from the region participated with 110 Mathletes competing for top individual and team honors. The top two teams and six individuals advanced on to the State MATHCOUNTS competition which will be held at Columbus State Community College on Saturday March 14, 2015. Eighteen schools with 110 Mathletes competed. The following schools participated in this year's MATHCOUNTS event:

Ankeney Middle School, <i>Beavercreek</i>	Magsig Middle School, <i>Centerville</i>
Ansonia Middle School, <i>Ansonia</i>	Miami East Local Schools, <i>Casstown</i>
Ascension School, <i>Kettering</i>	Miami Valley School, <i>Dayton</i>
Coy Middle School, <i>Beavercreek</i>	Milton-Union Middle School, <i>West Milton</i>
Dayton Regional STEM School, <i>Kettering</i>	Saint Albert the Great, <i>Kettering</i>
Franklin Monroe Middle School, <i>Arcanum</i>	Sidney Middle School, <i>Sidney</i>
Hadley E Watts Middle School, <i>Centerville</i>	Springboro Junior High School, <i>Springboro</i>
Horizon Science Academy Dayton High School, <i>Dayton</i>	Tippecanoe Middle School, <i>Tipp City</i>
Kettering Middle School, <i>Kettering</i>	Wilmington Middle School, <i>Wilmington</i>

Awards were given for the top six schools and coach, top six individuals and coach, and top four students in the Countdown Round. The following awards were presented:

1st Place Team: Magsig Middle School	2nd Place Team: Coy Middle School
Kevin Yin	Tiffany Huang
Nikhil Vijai	Hari Parameswaram
Rishi Bahubalendrun	Alex Le
David Molgard	Foram Patel
Shivam Sarodia (Coach)	Allison Wolf (Coach)
3rd Place Team: Hadley E. Watts Middle School	4th Place Team: Ankeney Middle School
Shravan Kalahasthy	Hyrum Taylor
Aryaman Agrawal	Johanna Taylor
Ashrit Challa	Emma Kieselhorst
Dhruv Gollamudi	George Chen
Shivam Sarodia (Coach)	Erin O'Dell (Coach)
5th Place Team: Miami Valley School	6th Place Team: Springboro Junior High
Liyah Varghese	Matt Satter
Grace Zerba	Divij Lankalapalli
Elena Cebulash	Krishna Singla
Camden Bettencourt	Nathan Matterson
Laura Kohtala (Coach)	Carrie Dillman (Coach)
1st Place Individual: Hari Parameswaram—Coy Middle School: Allison Wolf (Coach)	
2nd Place Individual: Kevin Yin—Magsig Middle School: Shivam Sarodia (Coach)	
3rd Place Individual*: Tiffany Huang—Coy Middle School: Allison Wolf (Coach)	
4th Place Individual: George Chen—Ankeney Middle School: Erin O'Dell (Coach)	
5th Place Individual: Shravan Kalahasthy—Hadley E. Watts Middle School: Shivam Sarodia (Coach)	
6th Place Individual: David Molgard—Magsig Middle School: Shivam Sarodia (Coach)	

\*Nobel Zhou, Sidney Middle School, also awarded 3rd Place Individual after scoring review.

## 2015 MATHCOUNTS RESULTS (CONT)

Countdown Round 1st Place: Nobel Zhou—Sidney Middle School  
Countdown Round 2nd Place: Kevin Yin—Magsig Middle School  
Countdown Round 3rd Place: Tiffany Huang—Coy Middle School  
Countdown Round 4th Place: George Chen—Ankeney Middle School

The following teams and individuals advanced on to the State Competition:

State Teams: Magsig Middle School and Coy Middle School

State Individuals: George Chen (Ankeney), Shravan Kalahasthy (Watts), Hyrum Taylor (Ankeney), Liyah Varghese (Miami Valley), Nobel Zhou (Sidney), and Shriya Rangaswamy (Magsig)

State MATHCOUNTS Competition was held 14 March 2015 in Columbus, OH. Results, with respect to the Dayton regional teams and individuals, were as follows:

6th Place Team: Coy Middle School

8th Place Team: Magsig Middle School

Individual Rankings:

2	Kevin Yin—Magsig	55	Hari Parameswaram—Coy
19	Tiffany Huang—Coy	60	Alex Le—Coy
30	Shriya Rangaswamy—Magsig	67	Nikhil Vihai—Magsig
31	Hyrum Taylor—Ankeney	77	Rishi Bahubalendrun—Magsig
34	George Chen—Ankeney	86	David Molgard—Magsig
42	Nobel Zhou—Sidney	141	Liyah Varghese—Miami Valley
52	Shravan Kalahasthy—Watts	146	Foram Patel—Coy

The Dayton Chapter would like to thank the University of Dayton for allowing the use of their facilities as well as local and regional sponsors Booz Allen Hamilton, Inc., Invotec Engineering and BWSC for their support of the event. Also, a special thanks to all the coaches and teachers of the competing schools who inspire and challenge students every day to reach their potential in mathematics. For more information on the MATHCOUNTS program, visit [www.mathcounts.org](http://www.mathcounts.org). For more information on the Dayton Chapter visit [www.dspe.org](http://www.dspe.org) and [www.ohioengineer.com](http://www.ohioengineer.com).



## COLSA CORPORATION OPENINGS FOR EPASS CONTRACT AT WPAFB

COLSA Corporation is seeking qualified personnel to support a Mobility task order under EPASS at WPAFB in support of the Mobility PEO staff for 5 years. Candidates are sought for senior-level Aerospace and Avionics engineers for two positions:

**Aerospace Engineer (Senior)/WPAFB:** Tracking Code 307-987. Job Description: COLSA Corporation has been awarded the EPASS Task Order in support of the Air Force Life Cycle Management Center (AFLCMC), Program Executive Officer for Mobility Directorate (AFLCMC/WL). We are currently seeking candidates for a Senior Aerospace Engineer to support our customer at Wright-Patterson AFB, Ohio. This position will perform engineering duties in designing, constructing, and testing aircraft, missiles, and spacecraft. May conduct basic and applied research to evaluate adaptability of materials and equipment to aircraft design and manufacture. May recommend improvements in testing equipment and techniques.

Required Experience: · Master's Degree in Engineering with 10 years-experience OR a Minimum of an ABET-accredited Bachelor's Degree in Engineering with a minimum of 20 years-experience; · Works on high visibility or mission critical aspects of a given program and performs all functional duties independently; · May oversee efforts of less senior personnel; · Minimum of a SECRET clearance required. Applicant selected will be subject to a government security investigation and must meet eligibility requirements for access to classified information. COLSA Corporation is an Equal Opportunity Employer, Minorities/ Females/ Veterans/ Disabled. Apply online at:

Apply online at: <https://colsa-openhire.silkroad.com/epostings/index.cfm?fuseaction=app.jobinfo&jobid=307>

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**Avionics Engineer (Senior)/WPAFB:** Tracking Code 284-987. Job Description: COLSA Corporation has been awarded the EPASS Task Order in support of the Air Force Life Cycle Management Center (AFLCMC), Program Executive Officer for Mobility Directorate (AFLCMC/WL). We are currently seeking candidates for a Senior Avionics Engineer to support our customer at Wright-Patterson AFB, Ohio.

This position shall have knowledge of avionics engineering in support of avionics subsystem definition, development, integration, all verification methods to include review of ICD, sustainment, modeling/simulation, test and evaluation, and airworthiness certification across a wide range of hardware and software systems. This position shall support and conduct systems analyses to include, but are not limited to, avionics system design/design feasibility and state-of-the-art assessment. This position will assist the customer in developing systems/subsystem specifications, provide draft documentation defining system/subsystem specifications, and perform analyses of avionics and subsystems including, but not limited to: system threat analysis, laser systems, computer systems, avionics interfaces, and multiplex buss communications; and identify potential issues and/or areas of improvement for Government consideration. This position will support and conduct performance effectiveness, cost effectiveness, cost performance, life-cycle cost, producibility, maintainability, supportability, reliability, technical and schedule risk assessments, and scheduling trade-off studies. The position will review system specific test plans and participate in the conduction of systems, subsystems, and component testing.

Required Experience: · Master's Degree in Engineering with 10 years-experience OR a Minimum of an ABET-accredited Bachelor's Degree in Engineering with a minimum of 20 years-experience; · Works on high visibility or mission critical aspects of a given program and performs all functional duties independently; · May oversee efforts of less senior personnel; · Minimum of a SECRET clearance. Applicant selected will be subject to a government security investigation and must meet requirements for access to classified information. COLSA Corporation is an Equal Opportunity Employer, Minorities/Females/Veterans/Disabilities.

Apply online at: <https://colsa-openhire.silkroad.com/epostings/index.cfm?fuseaction=app.jobinfo&jobid=284>

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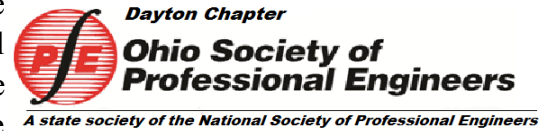
DAYTON CHAPTER—OHIO  
SOCIETY OF PROFESSIONAL  
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WE'RE ON THE WEB!  
WWW.DSPE.ORG

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 Engineers, is a chapter of the OSPE serving the local Dayton Area. DSPE aspires to conduct a monthly chapter luncheon meeting that will serve our membership 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.

## 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. But they do not happen on their own. 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.

## UPCOMING EVENTS

### May 2015

- 1-31 May**     **DSPE Chapter Elections**
- 6 May**       **Ohio Engineers Legislative Day, Capital Club, Columbus**
- 7-10 May**    **National MATHCOUNTS**
- 14 May**      **DSPE Chapter Meeting**

### June 2015

- 11-13 Jun**    **Spring CPD Conference & Annual Meeting (Cincinnati Eastgate Holiday Inn),  
"Engineering Now: An Eye on the Profession"**
- 19 Jun**       **OSPE/EFO Committee Meetings**