

# THE DAYTON ENGINEER

VOLUME 7, ISSUE 8

AUGUST 2016

## Water Quality Month

First Annual Professional Engineer's Day—3 Aug



Sneak Some Zucchini Onto Your Neighbor's Porch Day—8 Aug

## THOUGHTS FROM THE BOARD

Mr. Robert Fuller, P.E., our new Ohio Society of Professional Engineers (OSPE) president, presided over our 2016 DSPE Officer and Director Installation ceremony at Beaver Creek's Wellington Grille on Tuesday, 12 July (please see article on page 6). Mr. Fuller's keynote address re-emphasized our Society's dedication to the promotion and protection of the professions of engineering as a social and economic influence vital to the health, safety and welfare of our community whose best interest is served by qualified and licensed engineers. Encouraging licensure serves both the public and the professional engineer as "it puts the force of law behind [the engineer's] protection of the public" (Dennis Irwin, OSPE Past President) while protecting the

license from encroachment. OSPE's objectives are ten-fold with the advancement and promotion of the public health, safety and welfare being number one. Secondly, OSPE seeks to encourage all qualified engineers to seek legal status through registration. For the licensed engineer, OSPE provides for stimulation and development of professional concepts among all engineers, uniting all qualified engineers of the state in one organization, while promoting the advancement of the professional, social and economic interests of the professional engineer. External to the individual engineer OSPE looks to promote the high standards of the engineering profession while representing the profession in governmental matters, and

cultivate public appreciation for the work of the professional engineer through improved public relations. OSPE also strives to promote the development of a civic consciousness by members of the engineering profession while establishing and preserving high standards of ethical conduct in all professional matters. These are our collective objectives as members of DSPE and OSPE, objectives that we aspire to when we initiate or renew our membership. Please consider extending a personal invitation to a fellow PE to join our Dayton and Ohio Societies as we, together, espouse the values exhibited by these objectives.

—Winn Holcombe, P.E.,  
DSPE Chapter President

### In This Issue:

- September's Legislative Update Preparation
- Upcoming Chapter Meetings
- Interviewing Tips-3
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- August Chapter Meeting
- OSPE/DSPE Calendar

# LEGISLATIVE BILL TRACKER—COURTESY OSPE MAGAZINE

Below you will find the current list of the legislative bills currently in Ohio's Legislature. In order for DSPE to conduct a fully successful Annual Legislative Update at the September DSPE Chapter meeting, **please review this list of bills and consider questions you would like to pose to our attending State Representatives and Senators.**

**Please forward your questions to Dr. Rich Henry, P.E., our Legislative and Government Affairs Director no later than 15 August 2016.** The accumulated questions can be submitted to the attending legislators prior to the meeting so they can research and develop answers. Contact Info: Rich Henry: [rhenry1049@aol.com](mailto:rhenry1049@aol.com).

## OSPE tracks bills in 131st Ohio General Assembly

<b>INFRASTRUCTURE BONDS, Senate Joint Resolution 3 (Schiavoni)</b>	Proposing to enact Section 2t of Article VIII of the Constitution of the State of Ohio to permit the issuance of general obligation bonds to fund sewer & water capital improvements.	<b>Status:</b> 1st hearing in Senate Finance, 2/9/16. <i>OSPE supports.</i>
<b>OIL &amp; GAS LAW, House Bill 8 (Hagan)</b>	To revise provisions in the Oil & Gas Law governing unit operation, including requiring unit operation of land for which the DoT owns the mineral rights.	<b>Status:</b> 1st hearing in Senate Energy & Natural Resources, 4/14/15.
<b>VOLUNTEER IMMUNITY, House Bill 17 (Blessing)</b>	To provide civil immunity for architects, contractors, engineers, surveyors & tradespersons providing volunteer services during a declared emergency.	<b>Status:</b> Signed by Governor, 2/14/16. <i>OSPE supports.</i>
<b>TRANSPORTATION BUDGET, House Bill 53 (Grossman)</b>	To make appropriations for programs related to transportation & public safety for the biennium 7/1/15-6/30/17 & to provide authorization & conditions for the operation of those programs.	<b>Status:</b> Signed by Governor, 4/1/15.
<b>CRIMINAL RECORDS, House Bill 56 (Schuring)</b>	To limit the use of criminal records in the hiring & employment practices of public employers.	<b>Status:</b> Signed by Governor, 12/22/15. <i>OSPE opposes.</i>
<b>BIENNIAL BUDGET, House Bill 64 (Smith)</b>	To make operating appropriations for the biennium 7/1/15-6/30/17 & to provide authorization & conditions for the operation of state programs.	<b>Status:</b> Signed by Governor, 6/30/15.
<b>SCHOOL BARRICADES, House Bill 114 (Roegner)</b>	To require the Board of Building Standards to adopt rules for the use of a barricade device on a school door in an emergency situation & to prohibit the State Fire Code from prohibiting the use of the device in such a situation.	<b>Status:</b> Passed House, 6/24/15. Later, this measure was added to budget bill, which was enacted. <i>OSPE opposes measure.</i>
<b>PIPING MATERIALS, House Bill 214 (Thompson)</b>	To restrict when a public authority may preference a particular type of piping material for certain public improvements.	<b>Status:</b> 2nd hearing in House Energy & Natural Resources, 4/8/16. <i>OSPE opposes.</i>
<b>PROFESSIONAL ENGINEERS, House Bill 236 (Blessing)</b>	To require professional engineers to complete continuing professional development hours in professional ethics or rules relevant to engineering or surveying practices.	<b>Status:</b> Referred to Senate Transportation, Commerce & Labor, 2/10/16. <i>OSPE supports.</i>
<b>WATER RESERVOIRS, House Bill 304 (Leland)</b>	To eliminate law authorizing the maintenance of buffers around municipal water reservoirs by contiguous property owners.	<b>Status:</b> 1st hearing in House Local Gov't., 11/17/15. <i>OSPE supports.</i>
<b>DWELLING EGRESS, House Bill 306 (Perales)</b>	To require a separate, exterior means of egress for dwelling areas above the second story of certain residential rental properties.	<b>Status:</b> 3rd hearing in House Commerce & Labor, 11/17/15.
<b>OIL GAS LAW, House Bill 422 (O'Brien)</b>	Regarding assignments of leases for real property for the placing of an injection well, permits for a well to inject brine and other waste substances from oil and gas operations, permits to conduct brine or other waste substances operations, requirements governing ground water monitoring related to the injection.	<b>Status:</b> Referred to House Energy & Natural Resources, 1/20/16.
<b>CAPITAL IMPROVEMENTS, House Bill 492 (Rogers)</b>	To create the Supplemental State Capital Improvements Pilot Program funded by a temporary transfer from the Budget Stabilization Fund and to make an appropriation.	<b>Status:</b> Referred to House Finance, 4/13/16.
<b>ALGAE CONTROL, a.k.a. "Clean Lake Erie Act," Senate Bill 1 (Gardner)</b>	To transfer the Agricultural Pollution Abatement Program from ODNR to the Dept of Ag, to establish requirements governing dredged material, nutrient loading, phosphorous testing by publicly owned treatment works & household sewage treatment systems, & to declare an emergency.	<b>Status:</b> Signed by Governor, 4/2/15.
<b>TAX CREDITS, Senate Bill 12 (Hottinger)</b>	To grant an income tax credit to individuals who earn degrees in STEM fields of study.	<b>Status:</b> Referred to Senate Ways & Means, 2/4/15. <i>OSPE supports.</i>
<b>LAKE ERIE DISTRICT, Senate Bill 45 (Eklund)</b>	To authorize the creation of a special improvement district to facilitate Lake Erie shoreline improvement.	<b>Status:</b> 2nd hearing in Senate Energy & Natural Resources, 3/17/15.
<b>SEWAGE SYSTEMS, Senate Bill 58 (Peterson)</b>	To authorize a property owner whose property is served by a household sewage treatment system to elect not to connect to a private, county or regional sewerage system under specified conditions.	<b>Status:</b> Referred to Senate Energy & Natural Resources, 3/4/15.
<b>HOUSEHOLD SEWAGE SYSTEMS, Senate Bill 118 (Eklund)</b>	To authorize a board of county commissioners or municipal legislative authority to elect to withdraw the county or municipal corporation from the application of any rule adopted after 1/1/14, by the Dept of Health governing the design of household sewage treatment systems.	<b>Status:</b> 2nd hearing in Senate Energy & Natural Resources, 4/12/16.
<b>CONTRACTOR LABOR, Senate Bill 152 (Uecker)</b>	To prohibit a public authority from requiring a contractor to employ a certain percentage of individuals from the geographic area of the public authority for the construction or professional design of a public improvement.	<b>Status:</b> 5th hearing in House State Government, 4/12/16.
<b>BIDDING THRESHOLDS, Senate Bill 210 (Balderson), House Bill 333 (Schaffer)</b>	To increase the monetary thresholds above which competitive bidding is required for township road construction, repair or maintenance contracts, & to increase the monetary thresholds above which a force account assessment is required for such projects.	<b>Status:</b> SB 210, referred to Senate State & Local Government, 9/15/15. HB 333, 3rd hearing in House Local Gov't., 2/23/16.
<b>WATER SYSTEMS, Senate Bill 269 (Schiavoni)</b>	To require a public water system to provide notice not later than 30 days after becoming aware that lead contamination may affect drinking water and to require EPA director to adopt rules to increase monitoring frequency for lead & copper.	<b>Status:</b> 1st hearing in Senate Energy & Natural Resources, 4/12/16.
<b>CAPITAL APPROPRIATIONS Senate Bill 310 (Oelslager)</b>	\$2.6 billion capital appropriations proposal: Ohio School Facilities (\$850M), higher ed. institutions (\$484M), local infrastructure (\$500M), parks & natural resources (\$275M), health & human service facilities (\$100M) & community projects (\$160M).	<b>Status:</b> 2nd hearing in Senate Finance, 4/19/16.
<b>ENERGY PLAN, House Concurrent Res 9 (Baker)</b>	To establish a sustainable energy abundance plan for Ohio to meet future Ohio energy needs with affordable, abundant & environmentally-friendly energy.	<b>Status:</b> Passed Senate, 6/17/15.

## UPCOMING CHAPTER MEETINGS

### AUGUST DSPE MEETING—11 AUGUST 2016

The August 2016 DSPE Chapter meeting will be on 11 August from 12:00 noon to 1:30 PM at the Engineers Club of Dayton, 110 Monument Ave, Dayton, OH 45402. The topic for this meeting is, “Overview—Insurance, Surety Bonds & Mechanics Lien Issues”, presented by Bricker & Eckler LLP, Attorneys at Law Messrs. Mark Evans, P.E., Esq., and Ben

Hyden, Esq.. 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, 9 August 2016 with Ed Schlaack by email at [SchlaackE@mcoho.org](mailto:SchlaackE@mcoho.org) or by

phone at (937) 781-2632 (office).



### SEPTEMBER DSPE MEETING—8 SEPTEMBER 2016

The September 2016 DSPE Chapter meeting will be on 8 September from 12:00 noon to 2:00 PM at the Engineers Club of Dayton, 110 Monument Ave, Dayton, OH 45402. The topic for this meeting is the Annual Legislative Update with our State Senators and Representatives. 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). Those wishing to attend should make your reservations no later than Tuesday, 6 September 2016

with Ed Schlaack by email at [SchlaackE@mcoho.org](mailto:SchlaackE@mcoho.org) or by phone at (937) 781-2632 (office).



### OCTOBER DSPE MEETING—13 OCTOBER 2016

The October 2016 DSPE Chapter meeting will be on 13 October from 12:00 noon to 2:00 PM at the Engineers Club of Dayton, 110 Monument Ave, Dayton, OH 45402. The topic for this meeting is the Engineering Ethics Update with Mr. John Greenhalge, Executive Director, State Board of

Professional Engineers and Professional Surveyors. 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). Those wishing to attend should make your reservations no later than Tuesday, 11 October 2016 with Ed Schlaack by email at [SchlaackE@mcoho.org](mailto:SchlaackE@mcoho.org) or by phone at (937) 781-2632 (office).



Professional Engineers  
Professional Surveyors

## UPCOMING DSPE BOARD OF DIRECTORS MEETINGS

The next DSPE Board meeting will be on 13 September 2016 from 5:15 to 6:30 PM at the Wright State University Engineering and Computer Science Dean's office conference room. **No regularly-scheduled Board of Directors meeting in August .**

## INTERVIEWING FOR SUCCESS 3: FIRST/LAST BULLETS COUNT MOST!

### Rule #3: First and Last Bullets Count the MOST!

**Explanation:** The examination of the first and last bullets in a given section can be traced back to a few sources. One goes back to your college days: English 101. English composition tells us to use the first sentence of a paragraph as the topic sentence; the last sentence should provide the “rest of the story, conclusion”. For Department of Defense civil servants, the military uses an evaluation framework that gives the most “weight” to the first and last bullets of a section. The rationale for this strategy is expediency: Don’t waste the reader’s time! Resume quality varies; most reflect little discipline in organizing accomplishments relevant to the job announcement. Thus any resume that follows the first, last bullet strategy will flow to the top of the resume pile.

Evidence of this strategy can be found in how the military evaluates individuals. Military careers are summarized in six to

nine bullets (depending on the form); the most relevant accomplishments are captured in the first and last bullets. When a promotion board evaluates dozens of records at one time, the first and last bullets are the only ones a reviewer will see during the initial evaluation stage. Records that fail to use the first-last bullet framework risk landing in the “if I have more time I will review” drawer.

**Bottom Line:** The first-last bullet writing method is widely used across the Federal Government; it is in your best interest to adopt this resume writing strategy.

#### Method:

- Brainstorm your career accomplishments. Don’t worry about time sequence at this point.
- Once you’ve captured all major accomplishments, prioritize them. The prioritization schema you should use be: the **result** of your action and **the impact**

this action had on the organization’s mission.

- The two most powerful bullets will be your candidates for first, last bullets.
- Arrange the rest of the bullets so each captures a single activity, are time sequenced, and are relevant to the job you are pursuing.
- First and last bullets should speak of people, mission, and resources.

**Lesson:** Prioritize accomplishments for relevance and make them memorable. Always use the first and last bullets to highlight your greatest accomplishments for that particular job. The reviewing official will be more inclined to read the rest of your resume because you’ve taken the time to make your resume relevant in a language understood in their context. The first-last bullet strategy will separate your resume from the rest. —Aurea Rivera, P.E.

## OSPE/EFO LEADERSHIP RETREAT

The 2016 OSPE/EFO Leadership Retreat will be held 22 August from 9:00 AM to 4:00 PM EDT, at the Highbanks Metro Park, Nature Center Lodge, 9470 Columbus Pike, Lewis Center, OH 43035. The event is free for OSPE and EFO board members and Chapter officers and the program and membership chairs and includes a continental breakfast, lunch and afternoon snack. Expect to gain important and helpful information about your respective board or chapter position. Participants will also have the opportunity to share your respective chapter’s success stories and brainstorm new ideas for the upcoming year. For more information, call Tim Schaffer, Executive Director, at 614.223.1144 or 800.654.9481 (in Ohio). Register at: <https://events.r20.constantcontact.com/register/eventReg?oeidk=a07ecx7g8g38c209026&oseq=&c=d87e1bd0-3561-11e3-bb93-d4ae528ec60a&ch=da1584b0-3561-11e3-bcb9-d4ae528ec60a>



# OUR THANKS TO MR. BRIAN POLLOCK

Thanks to Mr. Brian Pollock, from the 711th Human Performance Wing, Wright-Patterson AFB, for his July presentation on the conversion of a C-17 and C-130 fuselage to Air Force Aeromedical



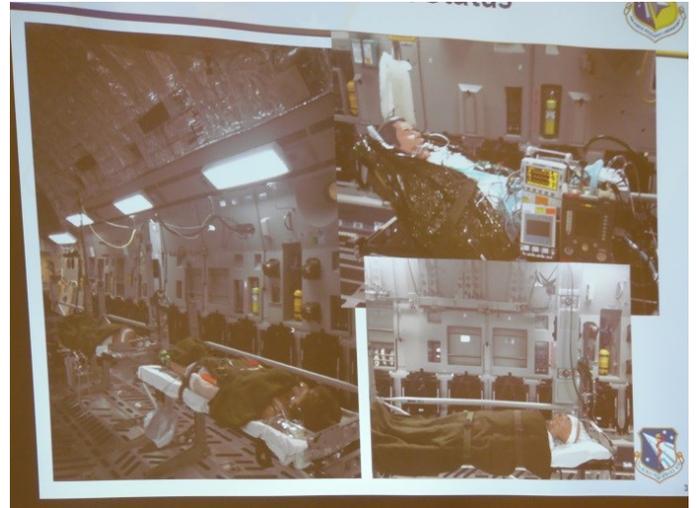
Evacuation Training Platforms. The project he described covered a number of topics: Risk management, project management, aerospace/civil/ biomedical engineering, inter-governmental coordination, and more. The 711th Human Performance Wing is tasked with advancing human performance in Air, Space, and Cyberspace through research, education and consultation by leading synergy across science and technology,

aerospace medicine, and human systems integration. Mr. Pollock emphasized the strong need for multiple levels of communications in this project, internal within the 711th Wing and other Air Force agencies for planning for the physical construction and assembly of the trainers and facility construction for final placement and operation.

Just as critical was the external communication with multi-state Departments of



Transportation and other agencies to coordinate the shipment routes and even roadway access times to facilitate the delivery to Wright-



Patterson AFB. At one point, a piece of the assembly was delayed over the 4th of July weekend due to unforeseen circumstances. The finished trainers provided such a realistic simulation of an in-flight aeromedical evacuation aircraft, Brian said that trainees often could not tell that they were not actually airborne.

## THE CALENDAR: DSPE, EFO AND OSPE

- 11 Aug DSPE Chapter Meeting, Dayton Engineers Club
- 8 Sep DSPE Chapter Meeting, Dayton Engineers Club
- 13 Sep DSPE Board of Directors Meeting, Wright State Engineering's Dean Conf Room
- 16 Sep OSPE PAC, Membership, L&GA Committees, EFO Board of Trustee, and OSPE Board of Directors Meetings
- 24 Sep Certificate Ceremony, Ohio Statehouse Atrium, Columbus, OH
- 11 Oct DSPE Board of Directors Meeting, Wright State Engineering Dean's Conf Room
- 13 Oct DSPE Chapter Meeting, Dayton Engineers Club

## 2016 OFFICER AND DIRECTOR INSTALLATION

We are very grateful to Mr. Robert Fuller, P.E., new OSPE president, for taking the time from his busy schedule to participate in our 2016 DSPE Officer and Director Installation ceremony at Beaver Creek's Wellington Grille on Tuesday, 12 July.



He presented his vision for the coming year in OSPE, not the least of which was encouraging each member to extend a personal invitation to PEs that we know to become members of NSPE, OSPE and their respective local chapters. In the current environment where all professional and technical associations are experiencing downturns in membership, Mr. Fuller's exhortation focused on remembering the Society's unceasing efforts to protect not only the public's safety and welfare, but also our professional licensure, by shepherding various bills as they traverse state and national legislatures. He championed that effort deserves our support by growing the membership and encouraging the education of the public about the need for qualified and licensed engineers, and

protecting that licensure against encroachment. Mr. Fuller



encouraged us all to maintain our high ethical standards, which the general public deserves and which builds trust in our endeavors. He adjured us all to continue our flagship programs, including the *Imagine Engineering* 2nd Grade

Engineer's Creed.

Mr. Paul Gruner, P.E., P.S., and current Montgomery County Engineer, facilitated the proceedings as the most recent Past President, passing the leadership gavel to incoming President Winn Holcombe, P.E.

Just as important, we enjoyed fellowship and

conversation with good food and we renewed old acquaintances and further cemented the personal and professional bonds of friendship and purpose. We sincerely hope you can join us next year!



Coloring Contest, scholarships, MATHCOUNTS, and our Professional Development Hour (PDH) programs to continue education efforts for our profession.

Following Mr. Fuller's remarks, he presided over the installation ceremony and administered the



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. **Is there anything you would like to see in the Newsletter? Please let me know: [jon.wheeler@yahoo.com](mailto:jon.wheeler@yahoo.com).**

— Jon Wheeler, P.E., DSPE Vice President, 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.

## PROFESSIONAL ENGINEER'S DAY—3 AUGUST 2016

The first annual Professional Engineer's Day will be on Wednesday, 3 August 2016. The National Society of Professional Engineers (NSPE) has declared this day as a day to raise awareness about what it means to be a Professional Engineer (PE) and to celebrate the profession and recognize licensed PEs. Charles Bellamy was issued the first professional engineer's license in Wyoming on August 8, 1907, and it has expanded from that day and professional engineers across the U.S. have committed their work to protect public health, safety and welfare ever since.

