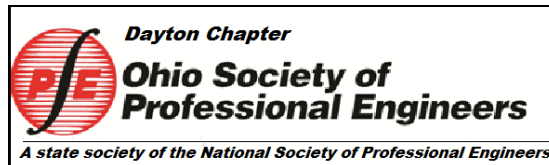


DAYTON SOCIETY OF PROFESSIONAL ENGINEERS

# THE DAYTON ENGINEER

VOLUME 6, ISSUE 4

JULY/AUGUST 2015



## NO DSPE BOARD OF DIRECTORS MEETINGS—JULY OR AUGUST 2015

There will be no Board of Directors meeting in July or August 2015.

## JULY DSPE MONTHLY CHAPTER MEETING—9 JULY 2015

The next DSPE Chapter meeting will be on 9 July 2015 from 12:00 noon to 1:30 PM at the Engineers Club of Dayton, 114 Monument Ave, Dayton, OH 45402. This month's topic will be, "Projected Climate Change Impacts to Federal Hydropower Facilities: An analysis of the Department of Energy's 9505 Assessment". Captain Justin Delorit, USAF, P.E., Air Force Institute of Technology's Civil Engineer School, will highlight climate change impacts on federal hydropower facilities, discussing challenges and limitations to managing facilities on a national and regional scale under uncertain and changing operating conditions, water rights structure, and expanding stakeholder base. Captain Justin Delorit, USAF, is on the Engineering Management faculty of the Civil Engineer School at AFIT. Captain Delorit is a member of DSPE, with a B.S. in Civil Engineering from Michigan Technological University and a M.S. in Engineering Management from AFIT. He has published several peer-reviewed articles and book chapters in water quality, land use optimization, and construction safety. He is also a member of the Society of American Military Engineers (SAME), the Water Environment Federation (WEF), and the National Registry of Environmental Professionals (NREP). He also led the authoring and instruction of AFIT's first-ever Professional Engineer Review Course and OSHA-authorized 30-hour Construction Safety Standards Course. The cost is \$20 for members, \$30 for nonmembers and \$10 for students. Attendees will receive one (1.0) 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, 7 July 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.

## DSPE BOARD OF DIRECTORS NEEDS A VOLUNTEER DIRECTOR

Would you like to make a difference for our profession? The DSPE Board of Directors is looking for a volunteer to step up and take a Director position for the 2015-2016 and 2016-2017 chapter years. If interested, please contact Steve Schultz, [steve.schultz@bwsc.net](mailto:steve.schultz@bwsc.net) or call 937.428.5237 for more information.

## AUGUST DSPE MONTHLY CHAPTER MEETING—13 AUGUST 2015

The August 2015 DSPE Chapter meeting will be on 13 August 2015 from 12:00 noon to 1:30 PM at the Engineers Club of Dayton, 114 Monument Ave, Dayton, OH 45402. Topic is TBD. Attendees will receive one (1) CPD for full attendance. A buffet will be served at noon with the presentation to follow. Please send your RSVP no later than Tuesday, 11 August 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.

## DSPE ANNUAL MEETING & OFFICER INSTALLATION DINNER, 14 JULY



The Dayton Society of Professional Engineers Chapter members are cordially invited to the 2015 DSPE Annual Meeting & Officer Installation dinner, on Tuesday, 14 July 2015 from 6:00PM to 8:30PM at Bravo! Cucina Italiana, located at the Dayton Mall, 2770 Miamisburg Centerville Road, Dayton, OH 45459. Attendees will order off the menu and will be in charge of their own dinner cost destiny. Please RSVP to Steve.schultz@bwsc.net or call 937.428.5237 by 7 July 2015.

## 2015-2016 DSPE CHAPTER OFFICERS AND DIRECTORS

The following list presents the 2015-2016 DSPE officers and directors which will be presented at the DSPE Annual Meeting and Officer Installation Dinner on 14 July for chapter membership ratification:

### Officers:

**President:** Steve Schultz, P.E., P.S.,  
**Vice-President:** Winn Holcombe, P.E.  
**Secretary:** Ken Hemmelgarn, P.E.  
**Treasurer:** Joseph Pokorski, P.E.  
**State Director:** James Montgomery, P.E.  
**Past President:** Vanessa Glotfelter, P.E.

### Directors:

**Director:** Paul Gruner, P.E., P.S. (2nd of 2-yr term)  
**Director:** Richard Henry, PhD, P.E. (2nd of 2-yr term)  
**Director:** Aurea Rivera, P.E. (1st of 2-yr term)  
**Director:** Taylor Van Vliet, E.I. (1st of 2-yr term)  
**Director:** Jon Wheeler, P.E. (2nd of 2-yr term)  
**Director:** Open Position (1st of 2-yr term)

## NEW APPLE AND ANDROID APP FOR DISASTER AWARENESS



[Courtesy: *Federal Alliance for Safe Homes—FLASH*] Our much-anticipated, new free social gaming application, [Last House Standing™](#) (LHS), is now available for download on [Apple](#) & [Android](#) devices. And, as it is the abiding support of our partners that generates our program success, we are asking you to download, play, review, and challenge your friends to play as you share the

app through your internal and social-networking channels. The app uses fun to introduce the next generation of homebuyers, homebuilders, homeowners, and renters to one central point—that how and where you build is the most fundamental element of disaster survival for families and homes. The project idea grew from research, including FEMA's [Preparedness in America](#) report on public preparedness and perceptions that indicated that 58% of 18 to 34-year-olds surveyed failed to recognize disaster safety as a priority. Specifically, survey respondents expressed the need to know “where to begin” to be protected and resilient in the face of hurricanes, tornadoes, wildfires, and more. LHS requires iOS 7.0 or later, and is compatible with iPhone, iPad, and iPod touch and most Android devices. While the app is optimized for iPhone 5, iPhone 6, iPhone 6 Plus and iPad 4 or later, it will operate on older models too. Download and play today, and we will see you on the Master Builder Board!

Sincerely,  
Leslie Chapman-Henderson  
FLASH President and CEO



## BOOK REVIEW: DECODING THE WORKPLACE, JOHN BALLARD, PHD



[Courtesy: Amazon.com]. "John Ballard breaks down the workplace into its parts and then shows how the parts work. His fundamental approach is insightful and should help anyone improve his or her 'people IQ.' "

—**Gregg Popovich, President and Head Coach, San Antonio Spurs**

"This is a must-read for people entering the workplace and is an insightful, comprehensive yet succinct reminder for those who are moving through their careers. Decoding the Workplace provides useful advice on thriving in the workplace using real-life examples supported by research and theories."

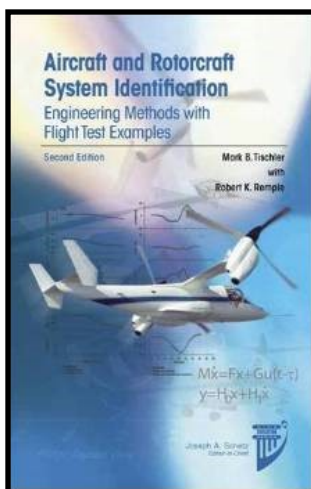
—**Teri G. Fontenot, President/CEO, Woman's Hospital, Baton Rouge, LA**

"Decoding the Workplace is a practical, no-nonsense guide that could not be more timely. It could help anyone better navigate the workplace. Easy to follow, the narrative is sprinkled liberally with real-life examples illustrating situations in which people find themselves while at work. This is a unique book that touches bases that similar books seem to ignore."

—**Stanley Krippner, PhD, Professor of Psychology, Saybrook University**

“From the Author: I am convinced that *Decoding the Workplace* can help many people ‘up their game.’ The 50 keys discussed have been useful in my career, both as a manager and as a consultant, and in the lives of others. As you read, you may find other keys or insights that may help you. I have used stories throughout to illustrate, stories derived from organizational life and stories from my experiences. My guess is there is something somewhere in this book that will benefit nearly all readers. My hope is you enjoying reading *Decoding the Workplace* and find value in its pages.”

## BOOK REVIEW: AIRCRAFT AND ROTORCRAFT SYSTEM IDENTIFICATION



[Courtesy: AIAA] New from the AIAA Education Series, *Aircraft and Rotorcraft System Identification: Engineering Methods with Flight Test Examples*”, 2nd Edition, by Mark B. Tischler and Robert K. Rempl, published by the American Institute for Aeronautics and Astronautics (AIAA) is now available. AIAA members’ list price is \$119.95. “New to this edition, you’ll discover an entire process of aircraft and rotorcraft system identification from instrumentation and flight testing to model determination, validation, and application of the results.”

“The authors have added dedicated in-depth chapters presenting extended model structures and identification results for large flexible transport aircraft, and the detailed methodology to develop a continuous full flight envelope simulation model from individual system identification models and trim test data.”

“Topics Discussed: Frequency-response methods that are especially well suited for system identification of flight vehicle models from flight-test data; Specific guidelines for flight testing, data analysis, and the proper selection of model structure complexity; Emphasis on the importance of physical insight in model development and applications.”

## OHIO LEGISLATIVE UPDATE[COURTESY: OSPE]

The OSPE's Board of Directors has voted to **support** the following three bills:

**House Bill 17, Volunteer Immunity (Blessing, L.):** This bill is to provide civil immunity for architects, Contractors, engineers, surveyors, and tradespersons providing volunteer services during a declared emergency. Am. 2305.2310.

Link: <https://www.legislature.ohio.gov/legislation/legislation-documents?id=GA131-HB-17>

**House Bill 236, Professional Engineers (Blessing, L.):** This bill is to require professional engineers to complete continuing professional development hours in professional ethics or rules relevant to engineering or surveying practices. AM 4733.151.

Link: <https://www.legislature.ohio.gov/legislation/legislation-documents?id=GA131-HB-236>

**Senate Bill 12, Tax Credits (Hottinger, J.):** This bill is to grant an income tax credit to individuals who earn degrees in science, technology, engineering, or math-based fields of study. AM. 5747.08 and 5747.98 and to enact sections 3333.51 and 5747.82.

Link: <https://www.legislature.ohio.gov/legislation/legislation-documents?id=GA131-SB-12>

The OSPE board also voted to **oppose** the following two bills:

**House Bill 114, School Barricades (Roegner, K.):** This bill is 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 and to prohibit the State Fire Code from prohibiting the use of the device in such a situation. Am. 3737.84 and to enact sections 3781.106.

Link: <https://www.legislature.ohio.gov/legislation/legislation-documents?id=GA131-HB-114>

**House Bill 214, Piping Materials (Thompson, A.):** This bill is to restrict when a public authority may preference a particular type of piping material for certain public improvements. Am. 153.75.

Link: <https://www.legislature.ohio.gov/legislation/legislation-documents?id=GA131-HB-214>

## INTERESTING ENGINEERING QUOTE

**“This one went unusually smoothly. When I finished it, I remarked to a friend that I felt like an engineer who had designed a machine and then sat back and realized it did everything I'd set out to do.” “Which made him say, quite emphatically, ‘No engineer has ever felt this.’”**  
— [Robert J. Bennett](#)

## JOB ANNOUNCEMENT: ENGINEERING MANAGER NEEDED!

IMI-Precision is looking for an Engineering Manager in Brookville, OH, to lead and coordinate activities of Electrical and Mechanical engineering to support the continuous design and development of IMI Precision Engineering Actuator products. Please refer to: <http://bit.ly/1P6iv1H> for details.

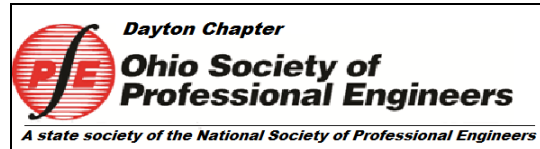


DAYTON CHAPTER—OHIO  
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Fax: 937-496-7441

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 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.

## ON THE CALENDAR: DSPE, EFO AND OSPE

### July 2015

- 9 Jul**      **DSPE Chapter Meeting, Dayton Engineers Club**
- 14 Jul**      **DSPE Annual Chapter Meeting and Officer Installation Dinner, Bravo! Cucina Italiana, Dayton Mall**

### August 2015

- 13 Aug**      **DSPE Chapter Meeting, Dayton Engineers Club**

### September 2015

- 8 Sep**      **DSPE Board of Directors Meeting, Wright State University**
- 10 Sep**      **Joint DSPE Chapter/SAME Post Meeting, Twin Base Golf Course Clubhouse, WPAFB, Annual Legislative Update**

“First rule of engineering; beware prototypes. Along with, avoid anything made by an engineer who doesn't have all his own fingers” — [Simon R. Green, \*Spirits From Beyond\*](#)