



INDIANA PROFESSIONAL ENGINEER

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STATE REGISTRATION BOARD NEWS

By: Vincent P. Drnevich, P.E., Board Member, Stephen Gillman, P.E., Board Chair, and David J. Kish, P.E., ISPE President

Thank you, Laurie Howe – For her entire tenure with ISPE, one of the biggest challenges for Laurie Howe, Administrative Director of ISPE was the periodic production of the **Indiana Professional Engineer**. It started as a manuscript that she had to compose and take to a printer and mail out. It was her suggestion to change it from a **Newsletter** to a **Journal**. For the last eight years, she beautifully accommodated **Registration Board News** articles for the **IPE**. She made sure that they were clearly written and nicely formatted. Her efforts over these years are most appreciated.

Welcome Suzanne Baase – We who author the Registration Board News articles, welcome you to the Indiana Society of Professional Engineers as our Executive Director. We look forward to working with you as we explore the collaboration with the **Indiana State Board of Registration for Professional Engineers (SBRPE)** as described below.

SBRPE Newsletter – The **Indiana Professional Licensing Agency (IPLA)** is contemplating publishing a Newsletter for the **SBRPE** and distributing it electronically to all PE's licensed in Indiana, including all who live outside of Indiana. Many state licensing agencies have such newsletters. Because ISPE's **Indiana Professional Engineer Journal** has been publishing **Registration Board News** articles in every issue for over eight years, the **SBRPE** at its April 12, 2017 meeting decided to make use of the **IPE Journal** published by **ISPE** by including a link to the **IPE Journal** in its new **Newsletter**. The **ISPE Board of Directors** discussed this proposition from the **SBRPE** at its April 21, 2017 meeting and agreed to collaborate with the **SBRPE**. Hence, the **SBRPE Newsletter** will contain the **Registration Board News** articles along with the many other fine contributions to the practice of engineering. The total electronic circulation will be about 13,000 which provide the **IPE Journal** a greatly expanded readership. Details of the arrangements are currently being worked out among **IPLA, SBRPE, and ISPE**.

Army Col. Scott Haraburda named GRCC's 2017 Distinguished Alumnus



An Army veteran, engineer and inventor is Grand Rapids Community College's 2017 Distinguished Alumnus. Haraburda received the Distinguished Alumni Award as part of GRCC's commencement, held April 28. The award honors those who have earned at least 30 credit hours at the college, have made substantial contributions to the good of their fellow beings and have served as a positive motivational force for others.

Retired Col. Scott Haraburda received an associate degree in 1981 from what was then Grand Rapids Junior College. He went on to earn a bachelor's degree in chemistry from Central Michigan University, a Master of Strategic Studies from the U.S. Army War College, and master's and doctoral degrees in chemical engineering from Michigan State University.

He served in the Army from 1981 through 2010, including a 2007 deployment to Kuwait to correct logistics problems in the war zone. He was awarded the Legion of Merit and three Meritorious Service Medals.

In addition to his military service, Haraburda is an inventor, making key contributions to the development of heat exchangers and spacecraft propulsion. He holds two U.S. patents and has seven patent requests pending. In 2013, the National Society of Professional Engineers named Haraburda a Fellow, and he served as president of the Indiana Society of Professional Engineers from 2014-15.



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President's Message



David Kish, P.E.

On May 1, our new Executive Director, Suzanne Baase began her association with ISPE. Suzanne works with Frontline Co., an association management firm, and she has experience with another ISPE – the Illinois Society. We welcome Suzanne and her associates from Frontline. I'm sure you've already seen and will continue to see messages from ISPE, Suzanne and her Frontline colleagues; please introduce yourself to them when you have an opportunity.

I also wanted to provide an update about our panel discussion at the annual meeting. The panel meets after our lunch session, and will include State Senator Dennis Kruse, State Representative Sheila Klinker, Chris Beaumont of the Indiana Credit Union League, Beth Bauer of ACEC Indiana, and Mark Lawrance from the Indiana Chamber of Commerce. We call the discussion "Finding Your Voice: Communicating with Local and State Decision Makers." Our hope is to do just that - learn how as individuals and an organization we can make ourselves and our knowledge available to decision makers as they go about their work for the people of the State and local communities.

In the November IPE Journal, my message shared some information about ISPE members; as of October 28, 2016, there were 523 of us. A breakdown of that total showed 116 life members, 342 members, 4 retired members and 61 student members. Some diligent work by one of our Purdue student members, Irena Wong, helped us see how that number has changed over time. In 2014, we had almost 600 members (594); that number didn't change much in 2015 (587), but it dropped to the 523 number I reported in 2016. Student members account for a large portion of that change (~110 in 2014 and 2015 down to 60 currently). We retained 82% of our 2014 members in 2015 and 73% from 2015 to 2016. 64% of our 2014 members were still with us in 2016. Obviously, we need to dig into those numbers a little deeper. Since member dues income has been steady over that time, I suspect we'll find that our member turnover is not as large as the numbers above indicate. My November message talked about the importance of student members, and the analysis summarized above highlights how student numbers affect us.

Member retention is also important since it is one of the factors that NSPE uses to assess each state society's "capacity" (ability to deliver service to members) in a proposed new membership model. Several features of the new model are worthy of discussion, not the least of which is setting a standard membership price across the nation. With the new model, annual dues will be \$299; each state society's portion of dues will be based on the state capacity. Indiana's allocation of dues should not go down, and with Suzanne and Frontline's assistance, our capacity (along with our portion of dues income) may go up. Forgive me for being a little casual with these numbers, but after looking through my checkbook records, I found that my NSPE / ISPE dues have been about \$260 since 2013. Had they grown 3.6% annually, they would be close to the proposed \$299 price point. Even a one-time increase of \$35 (about 10¢ daily) seems worthwhile to me since I get at least that much enjoyment from reading some of the postings in NSPE's communities.

Continued on Page 5

The Softside of Engineering

Mind Your Mind



Stuart G. Walesh,
P.E., PhD, F.NSPE

My studies and experience convince me that the trajectory of our professional and personal lives will be heavily influenced by our brain literacy, that is, what we know about our brain, how we apply what we know, and how we take care of our brain. “The lack of brain education is a huge mistake,” says neuroscientist and psychiatrist Daniel G. Amen, “because success in all we do starts with a healthy brain.” Let’s address the third item and, in particular, the importance of life-long mental stimulation of that three pound marvel between our ears.

Two Revealing Studies

Epidemiologist David Snowdon led one of the most revealing investigations of the human brain. Starting in 1990, 678 nuns in seven U.S. convents within the School Sisters of Notre Dame order agreed to work with Snowdon in a groundbreaking study that focused on their brains. The study’s purpose: determine who gets dementia, especially Alzheimer’s disease, which is the principal cause of dementia, and why, and what factors affect life expectancy.

The nuns offered an ideal situation for scientific study because they led similar lives, had access to similar health care, ate well, didn’t smoke, hardly drank alcohol, and didn’t experience physical changes caused by pregnancy. The research process included tracking each nun’s writings and other activities beginning in their 20’s and extending to death, conducting annual cognitive and physical tests on each participant, and removing and studying the brain of every deceased study participant.



The research reached a results milestone in 2001 with the publication of Snowdon’s book *Aging with Grace: What the Nun Study Teaches Us about Leading Longer, Healthier, and Meaningful Lives*¹ -- by then 383 nuns had passed away. The study concluded that early language ability, a positive outlook, and ongoing mental and physical activity correlated with lowered risk of dementia, including Alzheimer’s, and correlated with longer life. The reasons for this correlation are not fully understood. However, that does not significantly diminish their potential value for us, assuming we govern our lives accordingly.

More recently, neuropsychologist Robert S. Wilson^{2,3} led a similar cohort study at Rush University Medical Center in Chicago, which started with 294 older persons with an average age of 80 at the beginning of the study. Somewhat similar to the Nun Study, participants in this investigation participated in annual cognitive function testing until death – a mean of 5.8 years from the time the research began – at which time their brains were autopsied. Base data on participants included early-life and late-life participation in “cognitively-stimulating” activities such as reading, writing, visiting museums, playing challenging card games, doing puzzles, and the like.

The researcher’s view of their work: “We have proved...that increased cognitive activity has an association with reduced cognitive decline independent of cognitive-related pathology.” The reference to “independent of cognitive-related pathology” means that the researchers analyzed the data to remove the effects of diseases.

The Meaning for Us Engineers

The Nun and Rush studies suggest that if we are running mainly on habit and what is comfortable and routine, we should change the pattern. If you are a successful engineering student or practitioner, you may react by saying “I live most days around cognitive activity -- I have to in order to survive.”

While that may be true, I have observed many middle and advanced career professionals who have gotten into a rut. Every five years they have one year of cognitive experience five times instead of five years of cognitive experience. And that “in-a-rut thinking” may extend into their personal lives. Avoid that, with a vengeance, in order to reduce the likelihood of dementia and increase the probability of living longer. Practice faithful stewardship with your gift of superior intelligence and the opportunities it offers for achieving success and significance.

Continued on Page 9

GETTING BETTER

S S S S S = 5S Part Two



Ray W. Wilson, P.E.

In the last IPE I introduced the subject of 5S in the workplace by talking about **Sort**—also referred to as Organization. And the word organization was code for getting rid of everything you don't need. Just to remind you what we are talking about, here is a little test. Look in your desk drawer and check how many of the following you have. Pencils, pens, erasers, permanent markers (Sharpies), and highlighters. Now realize that you only need one of each. You can think about this in two ways. One is that all the additional ones just become clutter, take up space, and add confusion. And two, think of all the inventory and investment there is in these items across a whole company. It is not trivial. In this example, we are talking about pens and pencils. What if we were talking about extra tools and parts spread around the company?

So, let's assume we have Organization (we have gotten rid of all the stuff we don't need) under control, what comes next? The next step is **Set in Order** or Orderliness. In a nut shell, this means "arranging needed items so they are easy to use and labeling them to make their storage sites easily understood by anyone." (5 Pillars of the Visual Workplace, Hiroyuki Hirano, Productivity Press, 1990, pg 91.)

So why devote attention and effort to orderliness? Basically, we need standardization. And we want standardization because we will make more money or if we are a not-for-profit organization we will need less money. I guarantee it. When you have standardization, you have less waste – wasted time finding things, using things, returning things, waste of damaging things, having over-inventory or out of stock situations or losses because of accidents and injuries. When everything is in its place, it is easy to see anything that is out of place. You can, at a glance, see the difference between normal and abnormal.

Orderliness incorporates three concepts - what, where, and how many. We assume that all the unnecessary items have been removed during the sorting process. Now we need to determine where everything else should be located.

Storing Supplies and Items

Step 1 Determine Locations - The basic principle is to locate often used items closer and less used items farther

away. This pertains to linear as well as vertical distances – such as in vertical racks.

Step 2 Prepare the Locations - Decide if you are going to put things in a cabinet, on a shelf, in a box, on a pallet, on the wall, etc.

Step 3 Indicate the Locations - With the use of words, pictures or sign boards, each item must be given an address. Think of it as a postal address for the item. Design the system so that a new employee with a map can find anything.

Step 4 Indicate Item Names - Install a card or label that gives the exact name of the item being stored.

Step 5 Indicate the Amount - Indicate, if more than one item is stored at a location, the maximum and minimum number of items that are stored there. If an exact number is not logical, indicate the maximum and minimum height of items that should be stored there such as bags of mulch or sheets of plywood or reams of paper.

Step 6 Make Orderliness a Habit - Make the system easy to use. Establish a discipline. Monitor it weekly if not daily.

Here are a few recommendations to consider as you embark on Set in Place.

1. Spend serious time planning where things should be located for maximum efficiency.
2. Decide on a comprehensive address system for every storage location.
3. Decide on standard signage for locations, names and numbers.
4. Choose a small but strategic area to begin your 5S program. In other words don't try to do it all at once.
5. Choose a good leader and a team that works in the area selected to carry out the installation.

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CODE CORNER

All Professional Engineers licensed in the State of Indiana have certified on their application or in their renewal that they have read and agree to abide by the Registration Act and the Rules of the Board currently in force. CODE CORNER is a feature of *The Indiana Professional Engineer* that reminds us of the provisions in the laws that govern our profession.

The Question below was published in the March/April 2017 Issue of *The Indiana Professional Engineer*:

Is the Licensing Agency required to perform any due diligence or review the truth of any applicant's information submitted for prospective licensure?

Sec. 4. The licensing agency is not: responsible for:

responsible for performing or required to perform any due diligence or review of the veracity of the information represented by an applicant under this chapter.

This Issue's CODE CORNER Question is:

Is an "intern permit" considered a "License?"

The Answer to this Question, with reference to the governing Indiana Code and Administrative Code language, will be in the July/August Issue of *The Indiana Professional Engineer* and will be posted on the ISPE Web Site (www.indspe.org) during July 2017.

- Michael R. Fink, P.E.

From President's Message - Page 2

Shifting gears back to the IPE Journal, among the many recurring features in this publication is the "State Registration Board News." The Indiana Professional Licensing Agency is considering publishing a newsletter for PEs licensed in Indiana, and rather than replicate the Board News feature that appears in the IPE Journal, members of the State Board of Registration for Professional Engineers (SBRPE) suggested the Professional Licensing Agency's newsletter include a link to the IPE Journal and "State Registration Board News." ISPE's board agreed to this suggestion at our April 21st meeting. ISPE and the IPE Journal now has a potential reach beyond our 520 members (and those who come across the Journal on our web site). Our audience will be the approximately 13,000 professional engineers with Indiana licenses!



Thanks to all of you who returned ballots for officer elections and for the vote on a new logo for ISPE. The logo vote was close, but 54% of the ballots were in cast in favor of the new logo. You'll be seeing it roll out soon.

Finally, thanks to all of you from the board and me for your support in 2016-17. It certainly has been an interesting year! See you at the Annual Meeting June 9.

Indiana Society of Professional Engineers Online Continuing Education Library

Indiana approved continuing education courses including the *Indiana Statutes and Rules and the Professionalism and Ethics in the Practice of Engineering courses* are available here:

<https://indspe.redvector.com/Default.aspx>

***Courses are valid for an entire year.**

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Daydreaming of ways to save?



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ENGINEERS' CREED

As a Professional Engineer, I dedicate my professional knowledge and skill to the advancement and betterment of human welfare.

I Pledge:

- To give the utmost of performance
- To participate in none but honest enterprise
- To live and work according to the laws of man and the highest standards of professional conduct
- To place service before profit, the honor and standing of the profession before personal advantage, and the public welfare above all other considerations
- In humility and with need for Divine Guidance, I make this pledge.

Adopted by NSPE in June, 1954

ISPE VISION, MISSION AND VALUES

ISPE is the Premier Indiana State Organization that promotes and defends the professional interests of all engineering professionals.

ISPE is the State Organization of engineering professionals from all disciplines that promotes the ethical and competent practice of engineering, advocates licensure, and enhances the image and well-being of its members.

The Core Values of **ISPE** are Protection of the Public, Ethical Conduct, Professionalism, Competency, Fulfillment of member needs, Service to the Public and Licensure.

Defending-in-Place May Be the Right Life Safety Strategy for Your Next Building Design



**Chris Jelenewicz, P.E.,
FSFPE
SFPE Technical
Director**

Some building evacuation strategies make use of safe areas to which building occupants can be relocated. These may be designed to provide temporary refuge/resting locations as people exit the building, or to keep people in a safe place for the entire duration of the fire. This strategy is often called the “defend-in-place” concept.

For example, if a building emergency occurs in a health care facility such as hospitals, nursing homes, etc., total evacuation of all occupants is impracticable and in many cases just impossible. That is because the occupants do not have the physical and/or mental capacity to evacuate a building without the help of others. For example, some occupants may not be able to make decisions in regards to their personal safety or they might not be able to follow emergency evacuation instructions. Others might be immobile or walk so slow that having the capacity to evacuate a building before conditions become untenable is unlikely. Put more simply, the occupants just won’t have enough time to safely evacuate.

Tall buildings are another type of occupancy where the “defend-in-place” strategy can be effectively used to protect building occupants during emergencies. But unlike healthcare facilities where the occupants do not have the mental and/or physical capacity to evacuate, usually the life safety concerns are related to the long time it takes to evacuate the building. The combination of the heavy occupant loads and the time it takes to evacuate the upper floors makes total evacuation of a tall building impracticable during emergencies.

Detention and correctional facilities are another type of occupancy that commonly uses the “defend-in-place” strategy. Usually in this type of occupancy only the occupants that are in cells near the fire are evacuate

If a building design warrants a defend-in-pace strategy, this design decision should be taken with the utmost of care during the planning process. Coordinating the “defend-in-place” strategy with all of the important building stakeholders throughout the design, construction and operations of a facility is essential for success. Each stakeholder has unique skills and interests that would benefit the development and implementation of a “defend-in-place” strategy. These stakeholders should include but not be limited to the building owner(s), contractors, facility managers, architect, engineers, code officials, the local fire department and appropriate staff.

Additionally, it is essential to have a fire protection engineer participate in the planning and design of all facilities that use the “defend-in-place” concept. Because defend-in-place is a non-traditional methodology that usually involves protecting facilities that have occupants with unique life safety concerns, having a professional with the special skills that are needed to protect these types of facilities from fire will be beneficial.

For a facility that implements the “defend-in-place” methodology, the foremost fire protection goal is to keep the fire and the products of combustion from reaching the building occupants. To do this, the fire protection engineer will design a number active and passive fire protection features. These features can include a combination of but not limited to: fire sprinklers, early detection and communication, fire-resistive construction, compartmentation, horizontal exiting systems, smoke management, protection of building service equipment and the control of ignition sources. The fire protection engineer will design these systems based on how the facility is designed, the building will be used and how the occupants can respond to emergencies.

When a defend-in-place strategy is implemented, staff training is a critical component for any the facility’s emergency plan and is a key element to ensuring a successful “defend-in-place” strategy. All staff should be provided with a copy of the facility’s emergency plan and the plan should be posted throughout the facility. The emergency plan should describe every detail of the “defend-in-place” strategy and should include the important role that staff plays in this process. Staff should be trained on how to implement the emergency plan and regular drills should be held. During these drills the plan should be evaluated. When issues are observed during a drill, the emergency plan should be adjusted appropriately.

**Have you registered for the ISPE Annual Meeting, June 9?
Online registration ends May 31! [Click Here to Register](#)**

HAVE YOU REMEMBERED TO PAY YOUR DUES?

Do you need another invoice? If so, please go to www.nspe.org where you can pay your dues online, or call NSPE Member Services at 1-888-285-6773 to speak with a customer service representative. Periodically it is a good idea to check your membership record to make sure all of your contact information is correct. NSPE will be happy to assist you in making necessary updates. We appreciate you and your continued support of NSPE and ISPE!

JOB TARGET CAREER CENTER

ISPE's **Career Center** connects ISPE members with new employment opportunities. And, Employers and Recruiters now have access to our specialized niche.

Check out this member benefit at www.indspe.org.



Do you have an idea for a story or new column of interest or comments and suggestions for the next issue?

If so, please contact Suzanne Baase at ISPE at indspe@gmail.com. The deadline for the July/August issue is July 14, 2017.



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NSPE membership includes 15 free on-demand streaming seminars that you can conveniently view from your home or office. At the end of each seminar, a quiz will be available for those who need it to meet their state's continuing education requirements.

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For more information use this link: <https://www.nspe.org/membership/member-benefits/fifteen-free-courses>

Once you complete the checkout process (you will not be charged), the link and passcode to view the course will be saved to the On-Demand Webinars tab under your account profile.

From *Mind Your Mind* - Page 5



Here are some ways to stay mentally stimulated at various points in your life:

- ◆ Earn another degree
- ◆ Master a new dance step
- ◆ Play brain games
- ◆ Seek speaking opportunities
- ◆ Take art lessons
- ◆ Request very different job assignments
- ◆ Travel to new places
- ◆ Join a book club
- ◆ Plant and nurture a vegetable or flower garden
- ◆ Learn another language
- ◆ Engage in a new sport
- ◆ Take different routes in your daily travels
- ◆ Walk or ride your bicycle instead of driving
- ◆ Design and build a boat
- ◆ Lead an ad hoc task committee
- ◆ Participate in an archeological dig
- ◆ Read articles and books from outside of your discipline and/or specialty
- ◆ Start a part-time business
- ◆ Learn to play an instrument
- ◆ Write that book

Avoid completely retiring and, with the exception of how to finance your later years, don't dwell on retiring. Sister Mary, a participant in the Nun's Study, cut back from decades of full-time teaching to part-time teaching at age 77. When she was 84, she retired from teaching but not from doing useful things. She did not completely retire because, as she put it, "I only retire at night." She and the other nuns teach us a lesson about how to mind our minds.

Sources:

- Snowdon, D. 2001. *Aging with Grace: What the Nun Study Teaches Us About Leading Longer, Healthier, and Meaningful Lives*, Bantam Books, New York, NY.
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- Hughes, S. 2013. "An Active Brain throughout Life Slows Cognitive Decline," *Medscape Medical News*, July.

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This article draws on research used to write his book *Introduction to Creativity and Innovation for Engineers* (Pearson 2017). Images courtesy of Pixabay.

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His archived webinar "Setting and Achieving Personal and Organizational Goals" is available from ASCE as part of its on-demand webinar program. Waves and stack images courtesy of Pixabay.

LEADERSHIP AND MANAGEMENT

FERC Nominee Profiled

[Greenwire](#) (5/17, Subscription Publication) profiles Pennsylvania Public Utility Commissioner Robert Powelson, who has been nominated by President Trump to serve on the Federal Energy Regulatory Commission. Powelson “is not afraid to speak his mind, even if it means veering into politically incorrect territory,” or “talk about and advocate for less popular approaches that might challenge conventional wisdom.” Supporters say that despite his “brash approach” he “is an intelligent, well-qualified regulator.” However, “Some in Pennsylvania, which one observer called a ‘very pro-industry state when it comes to the regulatory system,’” see him “as overly friendly to the companies he has been tasked with regulating.”

ENERGY

Indiana Farmers Raise Concerns About Reynolds-Topeka Transmission Line

The [AP](#) (5/22) reports farmers in Indiana “are complaining that a 100-mile powerline created by a for-profit utility company has interfered with their farms.” NIPSO has “used eminent domain to buy land rights from hundreds of landowners for a 200-foot-wide easement for the \$300 million ‘Reynolds to Topeka’ line.” The company “has gotten easements” for more than “500 properties along the route and almost 140 of the cases were settled in court. There are still 17 easements that need to be settled in court.” Some farmers contend “the pipeline is being built too close to existing structures and will make it challenging to harvest crops.” In addition, they are “worried about radiation from the line.”

EDUCATION

Purdue Northwest Brings Mechatronics Engineering Technology Program To IN, IL

The [Chicago Tribune](#) (5/22, Reed) profiles “an unusual Illinois-Indiana alliance,” a public-private partnership with Purdue University Northwest’s Mechatronics Engineering Technology program. The program “encompasses a blend of mechanical, electrical, computer and technology combined into one engineering degree,” and it has helped “ease an acute local engineering shortage while also getting some pretty good-paying jobs and real-world experience.” It also inadvertently brought an “economic pop” to Illinois and Indiana. The Tribune explains more than 50 regional small and mid-sized packaging-related manufacturers need “such hybrid talent” because companies like Coca-Cola, Abbott Laboratories, and Proctor & Gamble frequently “reach out to Midwest-based manufacturing companies and hire them to engineer, design and construct the equipment needed to bundle their goods.” With the support of a National Science Foundation grant, Purdue Northwest has also partnered “with the College of DuPage and Indiana’s Ivy Tech Community College to train mechatronics technicians.”

NSPE EXECUTIVE DIRECTOR ACTIVITY UPDATE

Covering the Period May 1-15, 2017

Mark J. Golden, FASAE, CAE

IMPORTANT REMINDER RE: WEBINARS TO ADDRESS THE PROPOSED MEMBERSHIP BUSINESS MODEL.

The first of three working session webinars addressing the proposed membership business model was held May 17. The May 17 webinar was recorded and has been posted to the NSPE website here along with frequently asked questions about the model.

The next two working session webinars will be held June 20 and July 11 from 2-3 pm Eastern Daylight time. Reminders will be sent shortly with details on how to pre-register. Please remember that these are separate, unique and different webinars. You will also find an update on discussions and actions related to the membership model on the first page of my report.

Championing the PE License

- ◆ NSPE urges Office of Personnel Management to align job responsibilities with licensure standards.
- ◆ NSPE and the Professional Engineers of Oregon oppose legislation undermining licensure requirements.
- ◆ New NSPE report highlights state-by-state education and experience requirements for licensure.
- ◆ Reports on various aspects of professional engineering practice are now available on the NSPE website.

Ethical Guide to the Profession

◆2017 edition A State by State Summary of Liability Laws Affecting the Practice of Engineering now available for purchase via the NSPE website; members receive half off the purchase price.

Powering for Professional Advancement

◆2017 PE Conference in full swing with all professional and leadership sessions confirmed; full details here.

◆Early bird conference registration ends May 31; be sure to register early to take advantage of savings.

Uniting the PE Community

◆PE magazine article on sexual harassment and bias in the engineering workplace generates 34 posts on NSPE Open Forum.

◆NSPE President and Executive Director attend 2017 Raytheon MATHCOUNTS National Competition in Orlando where NSPE President MC's Awards Ceremony and Banquet.

◆NSPE officers and board members continue busy travel schedule visiting several state societies during May. Officer, director and staff visits gear up in June with visits to 17 state/territorial societies.

CHECK OUT ISPE'S LOGO MERCHANDISE

Items available include knit beanie hats, drawstring backpacks, tote bags, scarves, jackets, polo shirts, can cozies, and travel mugs.

https://www.etsy.com/shop/MRMCustomDesigns?section_id=16071947&ref=shopsection_leftnav 8

Invest in the Future of Engineering Contribute Generously to

The Indiana Society of Professional Engineers Educational Foundation

Gifts to the Foundation may be of any amount. They may be designated for a specific use, such as scholarship endowment, MATHCOUNTS, etc., or they may be left undesignated to be used as the Foundation Trustees designate.

Cash, appreciated securities or property can be given. Since the Foundation is a **501(c)3** organization under IRS rules, the donor may realize an income tax deduction for the gift, and in the case of highly appreciated securities, favorable treatment of capital gains tax may also be enjoyed. Gifts to the Foundation should also be considered when doing estate planning.

Please send your gifts to:

Bill Whitworth, P.E., Treasurer
Indiana Society of Professional Engineers
Educational Foundation
2734 N. 700 E.
Franklin, IN 46131

The Indiana Society of Professional Engineers Educational Foundation was established in 1987 to develop the capabilities of individuals through education for eventual service as engineers and engineering educators. This is accomplished through funding programs that encourage interest in math and science in the lower grades and the granting of scholarships to college students enrolled in an ABET accredited engineering curriculum.