April/May 2015 Volume LXXVIII, Issue 2

# The Missouring Meer

The official publication of the Missouri Society of Professional Engineers whose mission is to promote the ethical and competent practice of engineering





# P.E. CEREMONY

Twenty newly registered Professional Engineers were honored by MSPE at a certificate presentation ceremony and reception in the Capitol Rotunda on April 10th. State Representative - and MSPE member - Rocky Miller, P.E. was the key note speaker.





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## **Executive Committee Adds Comments On Proposed Amendments To Bylaws**

At their April 10th meeting, MSPE's Executive Committee reviewed proposed language to address vacancies on the Board of Directors submitted by Bylaws Chair Ron Zitterkopf, P.E. With the addition of other wholesale changes to the bylaws regarding committee structure, allowance of electronic communication, and review of the officer structure requested by the society's staff, the Executive Committee opted to make additional comments for bylaw modification and then ask the Bylaws Committee to present the changes for discussion by the Board of Directors at their June 15, 2015 meeting. This would set in motion a plan for wholesale amendment of the bylaws to be voted on at a Meeting of the Membership at the June 2016 Annual Convention.

In other action, the Executive Committee:

- Received an update on MSPE's legislative priorities that highlighted transportation funding and design/build legislation for local government which includes QBS practices.
- Learned May 18 is the target date for updates to be completed

- to the society's membership database so staff can takeover invoicing for ALL members on June 1.
- Decided not to levy a service charge for credit card use at this time.
- Reviewed the financial picture for the nine-month period of July 1, 2014 to March 31, 2015 noting the recent delinquent report showing 78 members has made an impact on the state, chapter and practice division dues collections. MSPE's officers will begin working with the practice divisions and chapters to follow-up with the delinquent members.
- Accepted a comprehensive report from Focus 80 Task Force Chair David Howe, P.E. presenting membership analysis of chapter make-up or recruitment and retention actions from Central, Jefferson City, Northeast, Ozark, St. Louis and Southeast Chapters. Other chapters will be encouraged to submit reports so a "best practices" study can be

- generated.
- President-elect Breck Washam, P.E. discussed 2015-2016 goals focusing on personal contact using a theme of "Make it Personal." (See related story below.)

### **EDUCATIONAL FOUNDATION**

Acting on behalf of the Education Foundation, the Executive Committee:

- Accepted the nine-month financial report
- Noted a majority of the receipts has been received from chapters who were awarded Educational Foundation Chapter Grants.
- Requested an indication of what capital improvement maintenance needs to be conducted for the MSPE building based on the comprehensive building review from Terracon Consultants.



Planning for MSPE's 2015-2016 administrative year began March 24 in MSPE's offices where Breck Washam, P.E. (second from left) met with MSPE staff (from left to right) Membership Coordinator Stacey Meyer, Director of Operations Cherie Bishop and Executive Director Bruce Wylie.

# **Incoming President's Focus:** "Make It Personal"

President-Elect Breck Washam, P.E. met with MSPE's staff on Tuesday, March 24, 2015 in Jefferson City to initiate planning for his year as MSPE's President which begins on July 1,2015. Washam's focus for his presidency will be "Make It Personal" emphasizing personal contact with new members, among the society's officers and board members, and by state and chapter officers with the membership in general and continuing efforts to strengthen MSPE's membership started by Past Presidents Britt Smith, P.E. David Howe, P.E., Neil Brady, P.E. and Gary

MSPE's incoming president is planning to conduct chapter visits around the state and will focus the society's efforts on marketing MSPE, improving the society's technology by identifying its needs through a technology task force, as well as continuing the work underway to amend MSPE's bylaws so they reflect current procedures, updated methods of communication, governance and administrative relevance.

During his term, Washam will be facilitating phone conferences for the **June 2016** Executive Committee during the months when there are no face to face meetings scheduled.

2015-2016 **Important Dates** 

Thursday, August 13, 2015 **MSPE Executive Committee Meeting** Ozark Chapter Shrimp Feed Springfield, Missouri

Thursday, September 10, 2015\* President's Workshop for 2015-16 Chapter Presidents & Key Leadership Jefferson City

back up date: Friday, September 11 Friday, October 9, 2015 **Executive Committee Meeting** 

P.E. Ceremony, **Jefferson City** 

**December 8 and 9, 2015** 

Fall PDH Days,

Jefferson City

January 22, 2016

**Executive Committee Meeting** 

Jefferson City

January 23, 2016

Winter Board of Directors Meeting Jefferson City

April 8, 2016

**Executive Committee Meeting** P.E. Ceremony,

Jefferson City

**Annual Convention** 

Date and Location to be determined



Executive Committee members debate language to amend MSPE's bylaws. It is expected wholesale changes will be introduced in June for approval next year.

# **The Missouri Engineer**

Editor: Cherie L. Bishop Publisher: Bruce A. Wylie Publications Co-Chairs: Brandon Keith, P.E. and Kyle Schomaker, P.E.

The Missouri Engineer, is a ditigal newspaper published semil-monthly by the Missouri Society of Professional Engineers, Subscribtion fees are \$1 per year to MSPE members and \$12 per year to non-members.

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> The Missouri Engineer c/o Cherie Bishop, Editor 200 E. McCarty Street, Suite 200 Jefferson City, MO 65101 Phone: 573-636-6949 FAX: 573-636-5475 www.mspe.org

# **Transportation Funding Is Top Legislative Priority**

By Bruce Wylie, MSPE Executive Director & Cherie Bishop, Editor, The Missouri Engineer

Transportation funding is at the top of MSPE's priority legislation list this year; but finding an immediate solution that provides a stable, long-term financial solution acceptable to both critics and supporters is a long and winding road.

Earlier this year, Missouri's Department of Transportation sounded an alarm that the state is facing a big problem unless something is done now. With its adoption of The Missouri 325 Plan, MoDOT has signaled to legislators and citizens that the state will be running out of funds in 2017 to support the state's 34,000 miles of highways.

The 325 Plan means MoDOT's available funds will drop to \$325,000 leaving the department with only enough funds to maintain the 8,000 miles of highways that connect cities throughout the state. That leaves 26,000 miles of local roads to receive only limited attention – basically routine maintenance. The biggest impact of 325 could leave the state with a patchwork of repairs on roads and bridges with load limits or indefinite closures.

Several transportation bills – among them HB 689, HB 738, HJR 33 – were introduced and monitored by MSPE, but only one is gaining momentum: SB 540. Sponsored by Senator Doug Libla (R-Poplar Bluff) of Southeast Missouri, SB 540 is the most likely bill to reach passage. The bill is touted by MoDOT as the 2+2+2 = NOW Solution. It was unanimously voted out of committee by the Senate Transportation and Public Safety Committee and placed on the Senate Calendar for debate. This bill



MSPE Transportation Task Force Chair John Frerking, P.E. and Executive Director Bruce Wylie were among attendees at the Legislative Drive-In lobby event visiting Senator Doug Libla, sponsor of the SB 540 transportation funding bill, March 17.

proposes a 2-cent-per-gallon fuel tax increase for the next three years. Funding of this type, commonly referred to as 2+2+2 indexing, is the most feasible plan to solve the most urgent of Missouri's transportation funding problems. Not only is adding the 2+2+2 indexing to the current gas tax a way for Missouri to take care of the entire 34,000-mile system, it will allow MoDOT to have matching funds for any available future federal funding, and generate an estimated \$236 million of much needed additional transportation funds.

### What Will 2+2+2 Do?

- Allow MoDOT to keep all of the state's highways and bridges in the condition they're in today and avoid having to use The Missouri 325 Plan.
- Match any available federal transportation funds.
- Return MoDOT's popular citycounty cost-share program.
- Make progress on safety

- improvements, such as shoulders on two-lane roads.
- Provide limited major projects and planning studies.
- Share revenues with cities and counties to improve their own road and bridge budgets.

How Much Will It Cost? Estimates say the average driver can expect a monthly increase that is about the cost of a gallon of milk.

### **DESIGN-BUILD PROCUREMENT**

The popular design/build procurement process for design and construction of a project in a single contract is appearing in several legislative bills. These bills allow design/build to be used by local governments in Missouri. Design/Build has been successfully used by MoDOT and the State Division of Design and Construction on larger projects, as well as cities of St. Louis and Kansas City. Key provisions in the legislation MSPE is pushing for are:

- Mandating use of a two-stage procurement process utilizing QBS as much as possible, and
- Requiring an independent A/E to help the client design documents for the design/build competition.

One bill of note is HB 1042, sponsored by Rep. Bart Korman, P.E. (R-High Hill) which was referred to House General Laws Committee on March 31, 2015.

### STEM FUNDING

HB 520 sponsored by Rep. Ron Hicks (R-St. Peters) could bolster STEM funding for Missouri. The proposed legislation encourages employers to employ students majoring in the STEM fields through tax credits and other financial incentives. STEM education is vital to Missouri's economic future and is a continued focus of the legislative and executive branches of Missouri government. The House Select Committee on Commerce has voted the bill "do pass".

Another bill, SB 268, sponsored by Sen. David Pearce (R-Warrensburg), modifies

the Science, Technology, Engineering and Mathematics (STEM) Fund and creates the Economic-Education Partnership Act. Status: It voted "do pass" by Senate Jobs, Economic Development and Local Government Committee.

### LAND SURVEYING DEFINITIONS

Land surveying definitions and requirements passed last year are being addressed for clarification in several bills. The utility companies are concerned about burdensome requirements for right-of-way easements for their facilities. This legislation would allow them to continue surveying these types of easements by their staff.

In particular, SB 499, sponsored by Sen. Jay Wasson (R-Nixa) which was perfected by voice vote states the description of a professional land surveyor's work which involves creating, preparing, or modifying electronic or computerized data relative to the survey and location



MSPE PEPP Officer Michael Purol, P.E. visits with Rep,. Lindell Shumake duringt the Legislative Drive-In lobby event

of rights-of-way and easements are not exclusive to professional land surveyors unless the survey affects real property rights, as defined in current law. It also states that any document prepared by a provider of utility or communications services between August 27, 2014, and the effective date of the act shall remain valid even though it was not prepared by a professional land surveyor.

### STATE BOND LEGISLATION

State Bond legislation addresses issue amounts and types of projects that qualify. In particular, SB 330 sponsored by Sen. Mike Parson (R-Bolivar) allows bonds issued by the State Board of Public Buildings to be used on state projects for new construction. With much of the state's building infrastructure crumbling and in dire need of attention, the time is now for the state to use its low-interest bonds to help repair and renovate state facilities - including the State Capitol!



During the Legislative Drive-In lobby day event on March 17, MSPE Transportation Task Force Chair John Frerking, P.E., PEPP Officer Ross Kasmann, P.E. and Executive Director Bruce Wylie visit with Rep. Mike Bernskoetter.

# 2015-2016 Slate Of Officers Presented

has selected the following officers to lead the society for the July 1,2015 to June 30, 2016 administrative year. Immediate Past President Neil Brady, P.E. presided over the selection committee which was composed of Kurt Higgins, P.E., Past President, Southwest Chapter; David Howe, P.E., Past President, Western Chapter;

Steve Hutti, P.E., PEI State Director, St. Louis Chapter; and Britt Smith, P.E., Past President, Jefferson City Chapter. The formal election of the officers will take place on Monday, June 15,2015 during the Meeting of the Membership held in conjunction with the Board of Directors meeting at the society's Annual Convention at Camden on the Lake in Lake Ozark, Missouri.

MSPE's Bylaws allow that additional nominees for each office can be made by written petition containing the signatures of at least 30 members eligible to vote provided that no more than 10 signing any nominating petition are members of the same chapter. Petitions must reach the society's secretary (Executive Director Bruce A. Wylie) no later than 35 days prior to the election.

In the event there is only one nominee for each office, those nominated shall be considered as elected by acclamation. Five days after the deadline for nominations by petition, the Board of Directors shall be notified in writing that the slate of officers has been elected by acclamation and notice to that effect will also be posted in a subsequent issue of the society's official publication, The Missouri Engineer.

### FOR PRESIDENT



Breck R. Washam, P.E., of St. Louis Chapter, is a Vice President of Burns & McDonnell Engineering Company, Inc., and General Manager of the firm's St. Louis Regional Office. He has been with Burns & McDonnell for 25 years and joined them after earning his Bachelor of Science degree in Mechanical Engineering from Missouri University of Science & Technology (formerly the University of Missouri-Rolla) in 1990. He is a licensed professional engineer in Missouri and Indiana and has been a member of MSPE since

1991. Within the St. Louis Chapter, Breck has served in a variety of committee and officer positions including Chapter President in 2005-2006. At the state level, Breck has served on MSPE's Executive Committee as the Treasurer, Vice President, and is the current President-Elect. He also served as Chairman of the MSPE Professional Engineers in Private Practice and as a State Director for the St. Louis Chapter. Breck is an active member of the Engineers' Club of St. Louis and has served as an Area Director for the Miner Alumni Association. He received MSPE's Young Engineer of the Year Award at both the state and St. Louis Chapter level in 2002 and also received the Outstanding Engineer in Private Practice Award in 2009 and the Engineer of the Year Award in 2014 from the St. Louis Chapter. He is also involved in the community through United Way of Greater St. Louis, Ronald McDonald House, Make-A-Wish, and First Free Church. Breck and his wife, Ruth Ann, live in Chesterfield, Missouri and have three children, Landon, Taylor, and Blake.

### FOR PRESIDENT-ELECT



E. Matt Bedinghaus, P.E., of Ozark Chapter, is Owner/CEO & Chief Engineer of A2V Partners LLC in Springfield. He holds a BSEE from MS&T (formerly UMR) in Rolla Mo and has worked as an electrical engineer for 29-plus years, 17 of which were with St. Joseph Power & Light Company where he served as Relay & Communications Engineer, Senior Relay & Communications Engineer, Senior Project Engineer and

In accordance with Article VII of the society's Bylaws, the Nominating Committee Supervising Engineer-Substation Design and Manager, T&D Engineering before moving to Springfield where he worked in private practice before opening his own electrical engineering firm in 2010 that specializes in electrical T&D design & planning, system protection and control. Matt is a registered P.E. in 17 states, and has been a member of MSPE since 1985. While in Northwest Chapter, he served as Chapter President, Board Member, MATHCOUNTS Chair and was the chapter's Young Engineer of the Year. Since joining Ozark Chapter, he has served as Program Chair and Chapter Board Member. Matt is a member of SE Springfield Rotary and serves on the Ozark, Missouri Planning & Zoning Commission. He has been an IEEE Member since 1980. Matt and his wife, Beth, live in Ozark, Missouri. They have two grown children, a daughter, Stephanie, who is an Architect intern, and a son, Alex, who is a Mechanical Engineer.

### FOR VICE PRESIDENT



Ronald W. Black Jr, P.E., PMP of St. Louis Chapter, is Supply Chain Operations Superintendent for Ameren. He has more than 27 years of experience with Ameren (Union Electric Company) previously serving as a Supervising Engineer, Distribution Engineer and Substations Engineer. Ron holds a Bachelor of Science in Electrical Engineering from the University of Missouri-Columbia and a Master in Business Administration, Southern Illinois University-Edwardsville.

Within MSPE, he is currently the MSPE Treasurer. Ron has also been a Past President of St. Louis Chapter, the chapter's 2012 Outstanding Professional Engineer in Industry, and the 1998 Young Engineer of the Year for MSPE and St Louis Chapter. Ron has also been active on the Electrical Board of Missouri and Illinois (EBMI) for 20 years, currently serving on their Board of Directors; Maryland Heights Chamber of Commerce Board of Directors and Chairman of the Board; a 21-year member of Engineers Club of St. Louis, and a 30-year member of the Institute of Electrical and Electronic Engineers (IEEE). His community service activities include: St. Baldrick's fundraising for children's cancer research, World Bird Sanctuary, Habitat for Humanity, Ronald McDonald House, Grace Church, and Bogey Crossing Subdivision Trustee. Ron and his wife Melody reside in St. Charles with their daughter Kristin.

### **FOR TREASURER**



Robert (Bob) G. Becnel, P.E., ENSPE, of St. Louis Chapter, is an Electrical Engineer/Scientist with Boeing Research & Technology and has been with The Boeing Company in St. Louis for nearly 10 years. Before that, Bob held positions with Lucent Technologies/Bell Labs for 6 years and local consulting firms. He holds BS degrees in Electrical and Computer Engineering from the University of Missouri (1991) and MS in Electrical Engineering from Washington

University St. Louis (2003). He is a licensed professional engineer in Missouri and has been a member of MSPE since 1992. Within St. Louis Chapter, Bob has served in a variety of committee and officer positions including President in 2010-2011 and two terms as State Director. He was the St. Louis Chpater and MSPE Young Engineer of the Year in 2000. In NSPE, Bob served as PEI Chair in 2005-2006 and a Vice President for the NSPE Board of Directors. He is an active member of IEEE and serves as the Treasurer for Region 5. Bob is also involved in the community through the Knights of Columbus and Our Lady Queen of Peace Church in House Springs. He and his wife, Verla, live in Imperial and have two teenage daughters, Madison and Reagan.

# 78th Annual Convention

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You must reference (MSPE0615)

### **Tentative Schedule of Events**

**Sunday, June 14, 2015 MSPE Executive Committee Meeting** Welcome Event (families invited)

Monday, June 15, 2015 **Practice Divison Meetings MSPE Awards Lunch Meeting of the Membership** MSPE & Educational Foundation Board Meetings Young Engineers' Meeting

**Tuesday, June 16, 2015 Engineers' PDH Programs** 

Wednesday, June 17, 2015 **Engineers' PDH Programs** 

Annual Banquet, (families invited)

### **Planned PDH Programs**

- **Ethics**
- Work/Life Balance: Keynote Seminar
- **Copyright Law for Engineering Plans, Specs & Reports**
- **Transit Topics (Freight, Waterways, KC Streetcar)**
- **FEMA Scientific Resolution Panel**
- Ingenuity (Bringing new products to market) ... and more

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Requires graduation from an accredited college or university with a Bachelor's Degree in Civil Engineering, Engineering Management, Environmental Engineering or a related Engineering discipline plus at least four years of progressively responsible professional supervisory experience. A Master's Degree in a specialized field relative to assigned program area is desirable as is experience in the field of municipal sanitary services and the operation of wastewater treatment plants. Must possess a Professional Engineer's (PE) License; MO registration, as issued by the State Board of Registration for Professional Engineers, required within six months of employment. Subject to emergency call-in. If operating a motor vehicle for the purpose of completing job duties, incumbent must have a valid MO Motor Vehicle Operator's License.

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If interested, please apply on-line at <a href="https://www.springfieldmo.gov/jobs">www.springfieldmo.gov/jobs</a> by 4/24/2015.

The City of Springfield is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, age, status as a protected veteran, among

other things, or status as a qualified individual with disability.

### Classified Ad Placement

Submittals of classified advertisements and job postings for the Missouri Society of Professional Engineers' official publication, <a href="The Missouri Engineer">The Missouri Engineer</a>, may be placed using one of two methods:

- Email your ad copy, any special instructions and billing information to Cherie L. Bishop, Editor of The Missouri Engineer at cbishop@mspe.org or calling 573-636-6949, or
- Submitting your ad copy through MSPE's web site at <a href="www.mspe.org">www.mspe.org</a>. Click "Submit Job Posting" under the Job Openings tab on the homepage. Postings on the website are activated upon acceptance of the cost and conditions for publishing.

All Classifieds and Job Postings are charged by the word. Up to 40 words is \$25.00. Each additional 20 words or less is \$15.00. Publication of your ad includes both The Missouri Engineer newspaper and the website; unless the closing date is prior to publication of MSPE's newspaper.

For more information about advertising in The Missouri Engineer, visit our web site at www.mpse.org.

## Cardinal Coincidence?



During MSPE's Winter Board Meeting, St. Louis State Director Joe Offut, P.E. and MSPE Director of Operations discovered an unlikely coincidence - both were headed to Jupiter, Florida for St. Louis Cardinals Spring Training game the same week. The two and their spouses met up at Roger Dean Stadium where they saw the Cards play the Orioles and Marlins, and made time to catch a meal together.

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# **Welcome New Members**

MSPE welcomes the following members who joined or re-joined MSPE during February and March 2015. Please take a few minutes to extend your own welcome to the society and/or your chapter. Personal contact enhances membership in the society.

### **CENTRAL CHAPTER** Timothy Crockett, P.E.

**Crockett Engineering Consultants** 2608 N. Stadium Blvd. Columbia, MO 65202

### Andrew Meyers, E.I.

Worldwide Recycling Equipment 1414 Riley Industrial Dr. Moberly, MO 65270

### **JEFFERSON CITY CHAPTER** Donald Jenkins, P.E.

**MECO Engineering** 2701 Industrial Dr. Jefferson City, MO 65109

### Ryan Martin, P.E.

**MO Public Service Commission** 200 Madison, PO Box 360 Jefferson City, MO 65102

### **OZARK CHAPTER** Brandon Braun, E.I

City of Springfield - Enterprise 840 Boonville Ave Springfield, MO 65802

### Andrew Flippin, P.E.

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### ST. LOUIS CHAPTER Randall Berhardt, P.E.

Engineering Systems Inc. 923A East Terra Ln O'Fallon, MO 63366

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Asterisk (\*) indicates the member re-joined

# **Two MSPE Members Among** New P.E.'s Honored In Ceremony

Two MSPE members Ryan Martin, P.E. Anthony, P.E. and Cliff Jarvis, P.E. and license certificates in a presentation their careers by joining MSPE. ceremony on Friday, April 10th at the Capitol Rotunda during MSPE's biannual event held each April and October in Jefferson City.

The P.E. Ceremony provides a unique opportunity for MSPE to recognize the state's newest P.E.'s and applaud their licensure achievement. Invitations



State Representative and MSPE member Rocky Miller, P.E. delivers the keynote address to 20 new P.E.s at the society's April 2015 P.E. Ceremony

were sent to all 88 engineers who passed the professional practice exam to attend and have families, friends and co-works honor their career milestone.

Missouri State Representative Rocky Miller, P.E. was the keynote speaker. Also delivering remarks were Judy Kempker, Executive Director and Kevin Skibiski, P.E., S.E., P.L.S., Chair of Engineering Division, both of the Missouri Board for Architects, Professional Engineers, Professional Land Surveyors and Professional Landscape Architects as well as MSPE President Gary Strack, P.E.

At a reception following the ceremony, President-Elect Breck Washam, P.E., Vice President Matt Bedinghaus, Treasurer Ron Black, P.E., along with Board of Director Representatives Bill

of Jefferson City Chapter, and Stephen Jefferson City Chapter members Tim Stinger, P.E., from Western Chapter Leaf, P.E., and Ross Kasmann, P.E. joined were among the 20 newly licensed the speakers in congratulating the new professional engineers to receive their PE's and encouraging them to enrich



Ryan Martin, P.E. of MSPE's Jefferson City Chapter (top) and Stephen Stinger, P.E. of Western Chapter (below) are presented their Professional **Engineer Certificates from Kevin Ski**biski, P.E., MoAPEPLSPLA Engineering Division Chair.



# Life, Retired Membership Criteria

Members that may be eligible for Life or Retired membership status should review the criteria below and respond by Friday, May 29, 2015 for consideration at the 2015 Annual Board Meeting on Monday, June 15, 2015.

### LIFE MEMBERSHIP

Criteria for Life Membership (waiver of dues with the option of paying voluntary

a) Has held a valid license or certificate of registration as a professional engineer.

b) Is age 65 or older and retired from full-time employment and/or the active practice of engineering.

c) Has been a member of MSPE for at least 30 years and paid dues continuously.

d) Application for life membership must be made by personal application to the Board of Directors through the state office.

### **RETIRED STATUS**

Retired status (half-dues) criteria are: a) Has held a valid license or certificate of registration.

b) Age 65 or older and retired from full-time employment and/or the active practice of engineering.

c) Paid dues to MSPE continuously for at least five years.

d) Application for retired status must be a personal written request to the Board of Directors in care of the state office

# In Memoriam

MSPE received word on the deaths of the following members. These departed members will be honored by MSPE's Board of Director with a moment of silence and the passing of a Resolution of Respect which will be forwarded to their family.

The society learned belatedly that Richard Meloy, P.E. of Western Chapter died in December of 2013. He joined MSPE on October 31, 2008

Charles W. Riney, P.E. died on December 17, 2014. He was a life member of the society - joining MSPE on November 1, 1966 as part of the original Northeast Chapter where he held various leadership and officer positions. Most recently, he instrumental in reinvigorating the chapter which was rechartered as an MSPE chapter in 2007