



The Missouri Engineer

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

Infrastructure Awareness Day

**Tuesday, April 12, 2011 from 10 a.m. to 4 p.m.
Truman Hotel & Conference Center**

Registration \$35.00 per person
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Boards Supports Legislation For Future Energy Needs

At their January 21, 2011 Winter Meeting, MSPE's Board of Directors voted overwhelmingly to support legislative efforts aimed at addressing the State of Missouri's future energy needs. All but one board member voted in favor of a resolution backing legislation allowing energy generation projects, approved by the Public Service Commission, to recoup development costs prior to energy production. As a follow-up to the Board's action, the Executive Committee authorized a press release expressing MSPE's stand be sent to major newspapers in MSPE's 10 chapter areas as well as to the legislative sponsors and co-sponsors.

In other action, the Board:

- Approved the consent agenda.
- Observed a moment of silence for deceased members Charles Boulson, P.E., Thomas A. Herrmann, P.E., Charles Hooker, P.E., Patrick Sullivan, P.E. and Harold Theerman, P.E.
- Listened to an activity report from President Kurt Higgins, P.E. that MSPE's Executive Committee conducted the following activities: Endorsed the National Academy of Forensic Engineers' nomination of J. Derald Morgan, Ph.D., P.E. for NSPE Fellow; Received a report from Tony Gott, P.E. and Scott Becker, P.E. summarizing other states' attempts to



MSPE President Kurt Higgins, P.E. (center) directs discussion at MSPE's Winter Board of Directors meeting.

remove the Industrial Exemption from the registration law and concluding that MSPE should continue promote registration of professional engineers in industry, rather than "fight" the exemption exclusion.

- Discussed member retention & recruitment efforts, which is President Higgins' focus for the year. MSPE staff has devoted extra time and effort giving keeping chapters updated on members' statuses as well as preparing separate chapter prospective membership mailings.
- Heard from Britt Smith, P.E., MSPE's representative to the NSPE House of Delegates, that NSPE is actively marketing nation-

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John Huss, P.E., one of MSPE's representatives on the Professional Design Alliance, makes a point during the group's January 2011 meeting. The alliance, which is composed of members of the MoAPELSLA Board and the architectural, engineering, land survey and landscape architects professional associations, is concerned that 10 of the 15 positions on the registration board are expiring and Governor Nixon has not yet acted upon appointments for those vacancies. At the meeting, each professional association was asked to contact the Governor's Director of Board and Commissions and express the urgency in making the board appointments.

Board

(from page 1)

al-only membership in states (like Missouri) that have a state-only membership category. NSPE is encouraging those states to conduct state-only membership campaigns as well.

- Accepted the financial report ending December 31, 2010 which showed membership dues ahead of last year's figures at this point in the budget year and other revenue items meeting budget projections.
- Awarded life membership (voluntary dues) to Richard Buck, P.E., William Duke, III, P.E. and Merrill Watt, P.E. and retired status (half dues) for Edward Mulcahy, P.E.
- Passed a request from the Bylaws Committee to approved amendments to the Western Chapter by-laws.
- Granted the Nominating & Tellers Committee action request for the Nominating and Tellers Committee to be composed of: Chair Benjamin Ross, P.E, MSPE Immediate Past President, Central Chapter; Marie Collins, P.E., MSPE Past President, St. Louis Chapter; Jason Sommerer, P.E., State Director, Jefferson City Chapter; Mike Meyers, P.E., MSPE Past President, Western Chapter; and Charles Powell, P.E., MSPE Past President, Ozark Chapter.
- Agreed to have Government Relations Chair John Huss, P.E. draft letters to Missouri's congressional delegation supporting federal



Board of Director members attending MSPE's Winter Board Meeting on January 21, 2011 included (first row, left to right) Brandon Keith, P.E., Ozark Chapter Director; Bob Becnel, P.E., St. Louis Chapter President; Elizabeth Duvall, P.E., Jefferson City Chapter Director; Brent Baker, P.E., Southwest Chapter Director; Jason Sommerer, P.E., Jefferson City Chapter Director; (second row, left to right) Breck Washam, P.E., PEPP Chair; James Swingle, P.E., St. Louis Chapter Director; Bill Bezdek, P.E., St. Louis Chapter Director; J. Derald Morgan, Ph.D., P.E., Ozark Chapter Director; Jim Guthrie, P.E., Western Chapter Director; (third row, left to right) Kurt Higgins, P.E., MSPE President; Britt Smith, P.E., MSPE President-Elect; Chuck Morris, Ph.D., P.E., Rolla Chapter Director; Bill Anthony, P.E., PEC Chair; Scott Becker, P.E., Board of Director representative to the Executive Committee; Kevin Rohner, P.E., Western Chapter Director; Joe Marsh, P.E., Western Chapter Director; (back row, left to right) Bill Lindsay, P.E., Ozark Chapter Director; Ben Ross, P.E., Immediate Past President; John Huss, P.E., Central Chapter Director; Melissa Edwards, P.E., Northwest Chapter Director; Gary Strack, P.E., Board of Director representative to the Executive Committee; Neil Brady, P.E., and MSPE Treasurer and David Howe, P.E., MSPE Vice President.

transportation funding.

EDUCATIONAL FOUNDATION

Acting for the MSPE's Educational Foundation, the Board:

- Agreed to the consent agenda items.
- Learned the Building Loan should

be paid off by June 2012 and discussed possible ideas to utilize approximately \$30,000 of rental income when the loan is paid off including; paying into a capital improvements fund for building maintenance, re-payment of the \$50,000 to the investment portfolio for monies used last year to pay down the building loan in lieu retaining under performing investments, reinstatement of the Chapter Grants program, funding for Project Lead the Way and scholarships.

- Received the Financial Report as of December 31, 2010 from Treasurer Neil S. Brady, discussed and

authorized expending the \$5000 donation from the Western Chapter Educational Foundation to pay down the building note.

- Acknowledged clarification from the Kimel Program Committee that the Kimel endowment can only be used for faculty and industry licensure encouragement.
- Conferred with Scholarship Committee Chair J. Derald Morgan, Ph.D., P.E. about the lack of applicants for the RSF scholarship and the work he and scholarship sponsor R. Gary Finley, P.E. have done to make improvements to the scholarship application.

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MSPE Legislative Report

Listed below is the priority legislation MSPE is tracking. Members are updated on what's happening in the capitol through the **MSPE Legislative News Update** weekly email. Additional bill tracking information is available at www.mspe.org. Additional information on individual bills can be obtained at www.house.mo.gov or www.senate.mo.gov

HOUSE BILLS

BILL	SPONSOR	DESCRIPTION	STATUS	POSITION
HB 89	Rep. Darrell Pollock (R)	Extends sunset of MDNR water pollution permit fees.	Voted "do pass" by House Tourism and Natural Resources Committee on 2/10/11. Executive Session by House Rules Committee on 3/3/11	Support –Without funding, EPA could be given over-sight.
HB 124	Rep. Jeanie Riddle (R)	Allows an electrical company to recover costs associated with early site development from ratepayers for certain electrical generation facilities.	Voted "do pass" by House Utilities Committee on 2/22/11.	Support - Clean, affordable energy is an MSPE priority.
HB 364	Rep. Wayne Parkinson (R)	Modifies joint and several liability.	Voted "do pass" by House General Laws Committee. Referred to the House Rules Committee on 2/17/11.	Support – Responsible for only your % of fault.
HB 402	Rep. John Diehl (R)	Modifies a/e lien rights by increasing acreage from 1 to 3 acres.	Assigned to the Judiciary Committee on 2/24/11.	Support - Makes lien filing easier
HB 428	Rep. John Cauthorn (R)	Requires all facility plans submitted to MDNR as part of the permitting process for all environmental programs to be certified by a licensed professional engineer.	Assigned to the House Tourism and Natural Resources Committee on 2/24/11.	Support – DNR reviewers should not "re-design" sealed environmental project plans
HB 568	Rep. Kevin Elmer (R)	Establishes peer review for architects, landscape architects, land surveyors and engineers.	Assigned to House Professional Registration Committee on 3/3/11.	Support – Internal best practices reviews should not be used against a firm
HJR 9	Rep. Chris Kelly (D)	Proposes an \$800 million bond voter initiative for certain rate buildings.	Assigned to House Higher Education Committee on 2/24/11.	Support - Upgrades many higher education structures

SENATE BILLS

BILL	SPONSOR	DESCRIPTION	STATUS	POSITION
SB 22	Sen. Robin Wright-Jones (D)	Sustainability for new state buildings using LEED	Heard by Senate Progress and Development Committee on 2/16/11.	Oppose – Use general sustainability language & not rely on LEED only
SB 50/SB 321	Sen. Mike Kehoe (R)	Allows electric companies to recover costs from ratepayers on early site development for certain electrical generation facilities.	Heard by Senate Veterans' Affairs, Emerging Issues, Pensions and Urban Affairs Committee on 3/9/11.	Support – See HB 124
SB 94	Sen. Brian Munzlinger (R)	Loans to businesses for energy efficiency improvements.	Heard in Senate Jobs, Economic Development and Local Government Committee on 2/23/11.	Support
SB 133	Sen. Scott Rupp (R)	Authorizes an additional design-build contract for new bridge on US40/I-64 located in St. Louis County and St. Charles County.	Passed by the Senate on 3/3/11.	Monitor - Specific projects should not be legislated
SB 158	Sen. Joe Keaveny (D)	Extends the sunset for clean water permit fees to 2015.	Referred to House Commerce, Consumer Protection, Energy and the Environment Committee on 1/27/11.	Support – Need to continue DNR oversight of environmental programs
SB 164	Sen. David Pearce (R)	Establishes the Missouri STEM Initiative within the Department of Higher Education.	Voted "Do Pass" by Senate Commerce, Consumer Protection, Energy and the Environment Committee on 3/2/11.	Support – MSPE encourages STEM; subject to appropriations
SB 173	Sen. Bob Dixon (R)	Requires the Joint Committee on Missouri's Promise to develop long-term transportation funding strategy.	Voted "Do Pass" by Senate Transportation Committee on 3/2/11. Number 6 on the Perfection Calendar on 3/7/11.	Support - Requires a look at long term funding needs
SB 220	Sen. Jay Wasson (R)	Modifies a/e lien rights; changes 1 acre to 3 acres.	Heard by the Senate General Laws Committee on 3/1/11.	Support - Easier to file a/e liens
SB 290	Sen. Jim Lembke (R)	Modifies the law that limits indemnity agreements in construction work contracts.	Referred to Senate Small Business, Insurance and Industry Committee on 2/17/11.	Support – strengthens limitations on indemnity clauses
SB 378	Sen. Mike Kehoe (R)	Extends sunset for MoDOT Design-Build to 2018	Heard by the Senate Transportation Committee on 3/9/11	Monitor - just extends sunset date

Nominating Committee Names 2011-2012 Slate of Officers

In accordance with Article VII of MSPE's Bylaws, the Nominating Committee has selected a slate of officers for the July 1, 2011 to June 30, 2012 administrative year. Immediate Past President Benjamin A. Ross, P.E., presided over the committee, which was composed of Marie A. Collins, P.E., Past President, St. Louis Chapter; Michael A. Meyers, P.E., Past President, Western Chapter; Charles E. Powell, P.E., Past President, Ozark Chapter and Jason Sommerer, P.E., State Director, Jefferson City Chapter.

The 2011-2012 officers are being elected for a one-year term except for treasurer which is a two-year term. The president-elect automatically ascends to the office of president.

According to the bylaws, additional nominees for the respective offices may be made by written petition containing the signatures of at least 30 members eligible to vote provided that not more than 10 of those signing any one nominating petition shall be members of the same local chapter, and provided further that any such nominating petition shall reach the Society's secretary not later than 35-days prior to the date of the annual election on Monday, June 13, 2011.

In the event there is only one nominee for each office, those nominated shall be considered as having been 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 Missouri Engineer, the society's official publication.

FOR PRESIDENT

Britt E. Smith, P.E., is the Streets and Parking Division Director for the City of Jefferson. He received his Bachelor of Science degree in Engineering from the University of Missouri - Rolla. Britt began his engineering career with MECO Engineering as a Civil Engineer and Project Manager. Later, he continued as a staff engineer for both



the City of Jefferson and the Missouri Department of Conservation. Britt joined and became active in MSPE as part of the Jefferson City Chapter in 1998 and has held various offices within the chapter including serving as Chapter President in 2001. Since 2001, he has remained active at the chapter level, but has also served on various committees and offices at the state level including: State Membership Chair (2002 -2003), Board of Directors Representative to the Executive Committee (2003), Treasurer (2007 - 2009) and Vice President (2009-2010). He is MSPE's current President-Elect and also serves as the society's representative on the National Society of Professional Engineers' House of Delegates. Britt has also been involved with the local and state MATHCOUNTS competition as well as helping as a math tutor for 7th and 8th grade students at a Jefferson City middle school. His family includes his wife, Candace, and their children, son, Glenn (23),

and daughters, Hannah (18) and Grace (16).

FOR PRESIDENT-ELECT



David C. Howe, P.E., is employed by Black & Veatch in Kansas City, Missouri where he has responsibility for managing global strategic pursuits related to water and wastewater infrastructure projects undertaken by the company. He has been with Black & Veatch for over 33 years joining them after receiving a Bachelor

of Science degree in Civil Engineering in 1978 from the University of Cincinnati, Cincinnati, Ohio. David is an active member of Western Chapter of Missouri Society of Professional Engineers having served in all of the officer positions including Chapter President in 2004-2005. At the state level, David has served as chairman of the Publications and Annual Convention committees and represented Western Chapter on the Board of Directors from 2005-2009. He currently serves as MSPE's Vice President and is the First Vice Chairman for the MSPE Professional Engineers in Private Practice. David is also an active member of NSPE; American Society of Civil Engineers; Society of American Military Engineers - Fellow Grade; American Water Works Association; Water Environment Federation; Engineers Club of Kansas City; and Order of the Engineer. He resides in the metropolitan Kansas City area with his wife, Peggy Howe, P.E.

FOR VICE PRESIDENT

Neil S. Brady, P.E., is the President and Engineering Manager of Anderson Engineering, Inc., a civil engineering, geotechnical engineering and land surveying company headquartered in Springfield, Missouri. He joined Anderson Engineering, Inc. in January 1996 serving as project engineer, project manager and Engineering Manager of the Springfield office before his promotion to President in 2008. Neil earned his Bachelor of Science degree in Civil Engineering in 1995 from the University of Missouri-Rolla (now Missouri University of Science and Technology) and holds professional engineering registrations in 25 states. At the state level of MSPE, Neil is completing the final-year of a two-year term as Treasurer. Previously, Neil served as a member of the Annual Convention Planning Committee from 2006-2009, chairing the committee in 2008-2009 and was on the Young of the Year Task Force in 2006. Within the Ozark Chapter, Neil is the current Chapter Vice President. He served as the Secretary in 2009-2010, Treasurer in



2008-2009 and was Chapter Director from 2005-2008. He is also a member of Ozark Chapter's Professional Engineers in Private Practice serving as the Chair in 2001 and Vice-Chair in 2000. He was Ozark Chapter's Young Engineer of the Year in 2007. Neil and his wife, Tonya, have three children, Tanner (10), Harper (8) and Kaitlyn (5).

FOR TREASURER

Breck R. Washam, P.E., is an Associate 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 21 years and joined them after earning his Bachelor of Science degree in Mechanical Engineering from the Missouri University of Science & Technology (formerly the Uni-



versity 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 is the current Chairman of the MSPE Professional Engineers in Private Practice

and serves as a State Director for the St. Louis Chapter. Breck is also an active member of the Engineers' Club of St. Louis and serves 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 from the St. Louis Chapter in 2009. Breck and his wife, Ruth Ann, have three children, Landon, Taylor, and Blake.

More Voluntary Contributions Received

Life Members continue to play a big role in supporting MSPE's goals and objectives by providing voluntary contributions. A big "THANK YOU" is extended to the following members for the generosity they extended to MSPE through March 4, 2011.

Richard Herndon, P.E.

Kansas City, MO

August R. Savu, P.E.

St. Louis, MO

Joseph Senne, Jr., P.E.

Rolla, MO

Arthur J. Wernle, P.E.

Chesterfield, MO

MSPE Past President Is Engineering Mentor For St. Clair Future Cities Team

Seventh and eighth grade students in Mrs. Jennifer J. Hawkins gifted education program at St. Clair RXIII Middle School are receiving some hands-on engineering instruction from MSPE Past President Ronald F. Kadane, P.E. as part of MSPE St. Louis Chapter's sponsorship of their Future City teams.

Future City is 19-year-old program developed for middle school students to discover and foster interests in math, science and engineering by creating — first on computer and then in large, three-dimensional models — their visions of the city of tomorrow.

Kadane takes pride in St. Clair's seventh grade team's advancement to the National Competition which was held February 19-23, 2011 during National Engineers Week. The team earned the trip to Washington DC after finishing first place in the Chicago Regional Competition on January 29, 2011 — they were second place finishers in 2010.

As the St. Clair's Future City teams' engineer mentor, Kadane, who is a retired civil engineer that served as Project Manager and Vice President of Engineering for The Clayton Engineering Company in St. Louis, has volunteered his services for the past three years. By participat-



St. Clair Middle School Future City teams accept a donation from their team sponsor, MSPE St. Louis Chapter. Pictured with the check are (back row, from to right) Eighth grade team members Emily Eller, Kirsten Krier, MSPE Past President and the team's Engineer Mentor Ronald F. Kadane, P.E., teacher Jennifer Hawkins, Abby Montgomery, Sarah Hinson, Seventh grade team members (front row, from left to right) grade) Jamie Foutch, Shayla Hinson, Mikaela Drewel, Sydney Stahlman and Kyler Waldo.

ing with the Future City teams, he says "engineers are able to encourage students to consider entering the profession of engineering and learn firsthand what engineers do and how they affect our daily lives."

Being the team's engineer mentor, Kadane assists the St. Clair teams in creating their future city. Students are required to create a city using SimCity software. They must also draw a city blueprint to scale, write an essay and abstract, create a model to scale that has at least one moving part, and present their future city in competition. The students must take into account real city problems such as pollution, crime, traffic, and unemployment and then solve these issues. The real-life learning experience aims for students to develop and use higher-order thinking skills.

Kadane credits Mrs. Hawkins' enthusiasm for the students' strong interest in the program. "She has done an outstanding job in getting this program started in the St. Clair school; even to the point of helping the students conduct fund raisers for their expenses and travel to Chicago for the Regional competition," Kadane commented also noting team sponsor MSPE St. Louis Chapter helped out with a fund-raising donation which he presented.



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Human Resources Manager
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Fax: 314-679-4281

OPERATIONS ENGINEER

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We currently are seeking applicants for an Operations Engineer in the System Operations Department of our Engineering & Operations Division. The position will involve transmission outage coordination, calculating available transfer capability, training System Operators, ensuring compliance with applicable NERC Standards, assisting in development of AECI's Energy Management System, assisting in implementation and maintenance of Advanced Network Applications including State Estimator / Contingency Analysis, and administering open access transmission

service on the AECI network. This position will be responsible for reviewing operating standards, requirements, tools, work-flow, and related specifications by working with other Operations team members. The Operations Engineer will assist with data preparation, implementation, upgrade, testing and support of Operator applications.

Qualified applicants will have a Bachelor of Science degree in electrical engineering. A solid understanding of Electrical Power System Transmission equipment, field-implementation, protection, measurement, communications, common failures, system simulation, and Federal Agency requirements pertaining to System Operations is required. The successful candidate will demonstrate excellent communication and interpersonal skills and the discipline to follow established methodology to effectively complete projects according to specifications.

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OPENINGS AT



PROJECT ENGINEER/ DESIGN ENGINEER

Job Summary: The Project Engineer (or Design Engineer) is responsible for process design, plant layout, equipment specification and start-up of \$1 - \$3M design/build pneumatic conveying sys-

tems. Functions include customer contact, scheduling, coordination with suppliers and installation contractors and directing all aspects of projects to completion. Scope of responsibilities similar for projects in \$100K - \$500K range.

Education/Experience Sought: Bachelor of Science degree in engineering, preferably M.E. Two (2) + years experience in turnkey design/build projects including process design, plant layout, equipment specification and project start-up. Experience in pneumatic conveying or related industrial process applications preferred.

Specifications: Full time, exempt position reporting to a Project Manager.

INDUSTRY MANAGER, GENERAL INDUSTRY

Job Summary: Industry Manager based out of Kansas City Corporate office with 50% + travel. Responsible for selling to new and existing accounts for pneumatic conveying in the chemical, mineral and plastics industries to achieve the sales order plan. Other responsibilities include lead generation; development and maintenance of sales relationships; closing orders; generating client proposals; generating initial pneumatic conveying system design; providing competitive intelligence; devise & implement a marketing & sales plan for the chemical, mineral and plastic industries; interface as needed with independent representative agencies.

Required Education/Experience: Proven Sales track record with a minimum of 5 years in industrial capital equipment required, with a strong preference in the Chemical, Mineral or Plastics industry with established marketplace contacts. Ideal candidate will be able to function independently while providing aggressive results. Bachelor of Science degree in engineering or equivalent experience.

Specifications: Full time, exempt, incentivized position reporting to the Executive Director, Sales.

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In Memoriam

Barton Engineering Founder Dies

Robert C. Barton, P.E., 84, founder of Barton Engineering, a private practice offering consulting engineering and land survey services in Lebanon, Missouri, died February 26, 2011 at Cape Coral Hospital in Cape Coral, Florida following a brief illness. Mr. Barton was serving as Chairman of the Board of Barton Engineering Co., Inc. at the time of his death. He joined MSPE as a member of the Ozark Chapter on May 1, 1981.



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New Members

The following P.E.'s, E.I.'s and students are new members in MSPE. Please welcome these new members to your chapter.

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