



# 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

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### Proclamation Presentation

Missouri's 2009 State MATHCOUNTS team, all from Ladue Middle School, was honored with a proclamation from Governor Jay Nixon hailing their second place finish in the national competition. The proclamation was presented by MSPE's 2009 MATHCOUNTS Coordinator Cliff Jarvis (pictured far right) at a December school board meeting in the St. Louis suburb. Also pictured (from left to right) were Coach Paul Turney and team members Max Schindler and Victor Wang. Stella Schindler and Rungpen Liu were also members of the team, but were unable to attend the presentation.

## Licensure Law Top Legislative Priority

Proposed changes to the licensure law overseeing professional engineers, architects, land surveyors and landscape architects is MSPE's top priority for the 2010 legislative session.

The Missouri Board for Architects, Professional Engineers, Land Surveyors and Landscape Architects has asked that various changes to Chapter 327 RSMo be introduced that would include: adding a fourth professional engineer to the Board; allowing all three landscape architects to have a vote; defining service as a faculty member holding the rank of assistant professor or higher as active practice of Landscape Architecture; mandating that the chair of the MoAPELSLA

board rotate sequentially beginning with an architect, then professional engineer, then land surveyor, then landscape architect; and clarifying the immediate personal supervision language.

MSPE Executive Director Bruce A. Wylie indicated the society will be supportive if legislation is introduced to give DNR's various programs permit fee increases and if dam safety legislation is once again introduced, but it's too early to predict if any legislation will be filed. Wylie commented MSPE's other priority "will be to play defense" against any bills that would impact the practice of professional engineering or the business of engineering in the

state.

Most of the legislators' attention this session will be on balancing the state budget with declining state revenues, and getting re-elected or elected to another position in November 2010.

Members will be kept apprised of the latest information from the Missouri state capitol and bills that are being tracked by MSPE through the Weekly State Legislative Report sent out as a blast email. A bill tracking report is available for review on MSPE's website ([www.mspe.org](http://www.mspe.org)) by clicking on the Legislative Advocacy button on the left hand side of the home page.

## Winter Meeting Scheduled

Winter meetings will be held on January 22-23, 2010 at the state society's headquarters in Jefferson City, Missouri for both MSPE and the MSPE Educational Foundation.

MSPE's Executive Committee will convene on Friday, January 22 to review MSPE's and the Educational Foundation's year-to-date financial statements, the investment/endowment performance, MSPE's membership status, legislative activities along with the proceedings for the Board of Directors' meetings the next day.

Acting on behalf of MSPE, the Board of Directors, will: review the National Society of Professional Engineers' activities to develop a plan for state societies to have the option of offering state-only memberships, hear proposed legislative changes to the professional engineer registration law, elect a Nominating and Tellers Committee to recommend the 2010-2011 slate of officers, and review current committee and chapter activities. Acting for the Educational Foundation, the Board will review the goals for the Kimel Program Committee and plans for the 2010 MATHCOUNTS Competition.



Newly registered professional engineers are awarded their certificates at MSPE's P.E. Ceremony in the Capitol Rotunda.

## No Response To MSPE On FE Exam Policy

Making passage of the NCEES Fundamentals of Engineering (FE) exam a graduation requirement for Missouri's engineering schools so far has generated no response from the deans of Missouri's engineering schools.

At their October 16, 2009 meeting, MSPE's Executive Committee voted to support a policy of "requiring students to pass or make a good faith effort to pass the NCEES Fundamentals of Engineering exam as a graduation requirement from an ABET accredited engineering program."

Because MSPE's founding is built on the principal that professional licensure is a significant advantage in an engineer's career path, the Executive Committee issued an informational letter from President Ben Ross, P.E. to MS&T Provost Dr. Warren Wray; Dr. Manoj Patankar, St. Louis University, Dean of Parks College of Engineering, Aviation and Technology; Dr. Salvatore Sutera, Washington University, Dean of the School of Engineering and Applied Science; Dr. James E. Thompson, P.E., University of Missouri, Dean of Engineering; Dr. Kevin Truman, UMKC Dean of the School of Computing and Engineering, encouraging them to share the proposal with their department chairs and provide MSPE the school's views on the subject.

## MSPE Ceremony Recognizes New P.E.'s

Twice a year, in October and April, MSPE hosts a "certificate presentation" ceremony for newly licensed professional engineers at Missouri's State Capitol in Jefferson City. All engineers that have passed the principles and practice exam are invited to attend and be recognized for their outstanding accomplishment in passing the hurdles



Dr. Paul R. Munger, P.E., delivers the keynote address at the P.E. Ceremony.

of engineering education, experience, and examination.

MSPE's most recent event was celebrated on October 23, 2009, with one of the largest attendances with new P.E.'s, family and friends totaling more than 80 people.

Dr. Paul R. Munger, P.E., professor emeritus at MS&T and former chairman of the board for the Missouri Board for Architects, Professional Engineers, Land Surveyors, and Landscape Architects (MoAPELSLA), delivered words of wisdom to 25 new P.E.'s in his keynote address. Judy Kempker, Executive Director of MoAPELSLA spoke on the relationship the new P.E.'s will have with the licensure board.

New P.E.'s attending the ceremony were: James M. Alexander, P.E., Kevin J. Baumann, P.E., Ryan B. Benedict, P.E., Brad A. Brueggemann, P.E., Joseph A. Carpenter, P.E., Toshia M. Drebes, P.E., Stephen A. Eads, P.E., Ryan D. Gates, P.E., Jason W. Gruender, P.E., Gene P. Hill, P.E., Bradley Jacob, P.E., Sean M. King, P.E., Wendy M. Pennington, P.E., Tony G. Reames, P.E., Kasi Rodgers, P.E., Matthew J. Sander, P.E., Timothy D. Schmidt, P.E., Joshua P. Smith, P.E., Christopher A. Stumpf, P.E., Joshua L. Trader, P.E., Joseph D. Turner, P.E., Scott M. Vogelsang, P.E., MSPE Member Marvin Weakly, P.E., Adam M. Weber, P.E., and David G. Welton, P.E.

A whole host of MSPE volunteers supported Director of Membership Marla

Day to make the event one the new P.E.'s will remember and appreciate for their entire career. Volunteers included: Ashley Reinkemeyer, E.I., Chapter President; Christina Baker, P.E., Don Neumann, P.E., PEG Chair; Jason Sommerer, P.E., David Bange, P.E., Kenneth Stumpf, P.E., Membership Chair, Art Rice, P.E. and his wife Nancy, all from the Jefferson City Chapter; Rick Kaufmann, P.E., Chapter President, UMC Professor Tom Marrero, P.E., and Andy Bonderer, P.E. all of Central Chapter and Joe Marsh, P.E., Western Chapter President.

The P.E. ceremony is also the best opportunity for MSPE to promote membership in the society as another important career step and a positive way to impact their profession.

MSPE also congratulates two of its members on earning their P.E. license, Lowry Belisle, P.E. and Michael Lombardo, P.E.

## SLU Appoints New Department Chair

MSPE has learned that John Woolschlager, Ph.D. has been appointed as the department chair of St. Louis University's (SLU) newly formed Civil Engineering Department that will focus on sustainable engineering and green technologies.

Prior to his selection, Dr. Woolschlager was associate professor in the Department of Engineering at Arizona State University Polytechnic Campus since the Fall of 2008 and before that was associate professor at the University of North Florida in Jacksonville. He earned his B.S. in Civil Engineer from Southern

Illinois University at Edwardsville and his Ph.D. and M.S. in Environmental Engineering from Northwestern University. Woolschlager's expertise is in environmental systems modeling, water and wastewater treatment, sustainable civil infrastructure analysis and design.

MSPE President Ben Ross, P.E. and PEHE Chair Dr. Charles Morris, P.E. had encouraged the search committee to include "professional engineering licensure" among the qualifications for the Department Chair. The society plans to send a letter welcoming Dr. Woolschlager to Missouri's engineering community and advising him that Missouri State Law defines "engineering teaching of advanced engineering subjects" as the practice of engineering, which requires professional licensure (RSMo 327.181).

## The Missouri Engineer

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**Editor:** Cherie L. Bishop  
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MSPE Ozark Chapter helped to **Put The Brakes On Fatalities** with a proclamation signing ceremony by Springfield Mayor James O'Neal and recognition of Put The Brakes on Fatalities Day in Missouri from Governor Jay Nixon. Roadway improvements, protective traffic safety equipment, improved vehicle safety and safer driving habits allowed the United States in 2008 to reach its lowest level of traffic fatalities in more than 45 years. Championing the cause at the mayor's proclamation signing were Ozark Chapter members (from left to right) Amy Ruggeri, P.E., Neil Brady, P.E., and Marc Thornsberry, P.E. along with Lori Minor of Ozark Technical College.

## Companies Encouraged To Enter New Product Award Competition

April 2, 2010 is the deadline for companies to enter the Missouri Society of Professional Engineers' (MSPE) Professional Engineers in Industry (PEI) New Product Award Competition that recognizes the benefits coming from the research and engineering of new products.

Any new product, machine, process or material that has been developed totally or in part in Missouri and placed on the market between 2005 and 2009 may be entered. There is a \$50 fee for each entry.

Nominations will be grouped into four categories according to size of company. Two finalists in each category are eligible for entry into the National Society of Professional Engineers New Product Award contest.

MSPE-PEI's New Product Awards will be presented during MSPE's 2010 Annual Convention at The Resort & Yacht Club @ Toad Cove in Lake Ozark, Missouri.

Award information, instructions and the entry form can be found on

MSPE's web site at [www.mspe.org](http://www.mspe.org). Click on Practice Divisions, choose Industry, and select New Product Award.

## Distinguished Alumni Award Given To Hill



Ronald E. Hill, P.E. was awarded the University of Kansas' School of Engineering Distinguished Alumni Mechanical Engineer of the year award for 2009. Hill is active in MSPE's Professional Engineers in

Industry and is the President of HEMCO Corporation (Hill Engineering and Manufacturing Company) which provides research, development, and manufacturing of laboratory facilities.

# Professional Engineers Day At The Capitol

LET YOUR VOICE BE HEARD ON THESE ISSUES

- PE Registration Law: Immediate Personal Supervision
- Highway Funding
- Water Quality
- Dam Safety *and more*



Find registration information at [www.mspe.org](http://www.mspe.org)

**SAVE THE DATE!**  
**Wednesday, March 3, 2010**  
 Hosted by MSPE & ACECMo  
 Morning PDH Session &  
**AFTERNOON LOBBYING**



# Attendees Say PDH Days Is Great Learning & Networking Experience



Engineers from around the state of Missouri participating in MSPE's 6<sup>th</sup> Annual Fall PDH Days said it was a "great learning experience." Evidently, so much learning was taking place that the Capitol Plaza Hotel inadvertently re-named the annual event, "MSPE Fall PHD" on their welcome sign. But, Fall PDH Days is actually an affordable way for professional engineers to earn, not a doctoral degree, but up to one-year's worth of continuing competency, 15 PDH units, required for licensure renewal.



Attendees also commented positively on the networking opportunity, diversity of programs, expanding their knowledge of all areas of engineering, gaining useful information from project specific and new technology sessions.

2009's sessions included Morals, Ethics and Justice by Vaughn Prost, P.E.; Immediate Personal Supervision by Kevin C. Skibiski, P.E., P.L.S; Unified Communication Platform by Chris Cobb and Bob Gilbert, P.E.; Developing Leaders by Dr. Dianne Slattery, P.E.; Understanding the Economy by William R. Emmons; Innovative Engineering Solutions from MoDOT's Safe and Sound Bridge Replacement Program by Wayne Ellenberger, P.E. and Jim Peterson, P.E.; Smart Traffic Signals by Matt Myers, P.E.; Water Quality at Missouri's Lakes by Tony Thorpe; Missouri's First Bio-Reactor by Steve Hunt, P.E.; Planning Economic Development by Randy Allen; and the Taum Sauk Upper Reservoir Rebuild by Warren Witt.

Plans are underway for 7<sup>th</sup> Annual Fall PDH Days to be held at the Capitol Plaza Hotel on December 7 and 8, 2010.







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## MISSOURI PUBLIC SERVICE COMMISSION JOB OPPORTUNITY

### ENGINEERS

State regulatory agency seeks to fill an Engineering Specialist II position and a Utility Engineering Specialist III/Utility Regulatory Engineer I position in our Jefferson City Office to perform analysis related to energy issues that affect Missouri's investor owned utilities and their customers.

These positions require varying levels of knowledge of the utility industry in the areas of modeling for rate requests, preparing testimony in PSC hearings and reviewing compliance with vegetation management and infrastructure standards. Other duties could include addressing issues related to transmission, distribution, services, construction, production and/or resource planning. Positions serve as an engineering technical resource in areas such as electrical, steam, gas or nuclear generation systems. These positions require the ability to assist in formulating research strategies and selecting and applying the appropriate analytical methods or computer models to provide high quality information to decision makers. A high level of both verbal and written communication skills and the ability to explain and interpret the results of complex technical information to both technical and non-technical audiences is required.

**QUALIFICATIONS:** Graduation from an ABET accredited college or university with a bachelor's degree in engineering and two (Engineering Specialist II) to three (Engineering Specialist III/Utility Engineer I) years of responsible utility related experience or training. PE eligibility in Missouri required. Experience with spreadsheets and word processing is essential. Other computer simulation and database experience is also preferred. The ability to work well in a team environment is a must. Strong analytical, writing and interpersonal skills and personal computer experience required.

The starting annual salary range for the Utility Engineering Specialist II is \$45,984 - \$50,076 and for the Utility Engineering Specialist III/Utility Regulatory Engineer I is \$51,156 - \$57,864 with a potential increase at the end of a satisfactory probationary period for each position. Relocation assistance is available. To be considered for these positions, submit an application, resume, transcripts and one or two page technical writing sample by January 22, 2010 to the MO Public Service Commission, Reference Number UO010110, P.O. Box 360, Jefferson City, Missouri 65102. For additional information visit <http://www.psc.mo.gov>.

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The position is available immediately, and will remain open until filled. To ensure full consideration, application materials must be received by January 29, 2010. For a complete job announcement, qualifications, and the application process, visit us online at <http://www4.semo.edu/humanresources/jobs.htm>.

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### BUILDING MAINTENANCE SUPERINTENDENT

*Facilities Management - Full Time*

The building maintenance superintendent is responsible for but not limited to planning, coordinating and directing all daily activities related to the maintenance, preventive maintenance, repair and installation of the systems, associated equipment and buildings on the university campus.

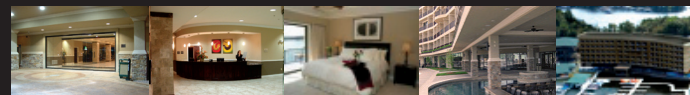
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## 2010 Annual Convention

# "charting a new course"



## Hop On Over To Toad Cove

*luxury accommodations*

*resort setting*

*pdh sessions*

*networking*

*family fun*

### Tentative Schedule of Events

Time	Sunday	Monday	Tuesday	Wednesday
6:30 am			Check-In/Registration	
7:00 am				Check-In/Registration
7:30 am		Check-In/Registration	PDH Session Keynote: Mark Mayfield 7:30 to 9:30 am	Practice Division PDH Session 7:30 to 8:30 am
8:00 am		Practice Division Meetings		Practice Division PDH Session 8:30 to 9:30 am
8:30 am		MSPE-PEPP 10-11:30 am	PDH Session Transportation Update 9:30 - 11:00	PDH Session Biometrics Speaker: Dr. Reza Derakhshani 9:30 to 10:30 am
9:00 am			Spouse and Kids Activities to be determined	Practice Division PDH Session 10:30 to 11:30 am
9:30 am				Engineer Lunch 11:30 am to 12:30 pm
10:00 am			PDH Session Lake Issues Speaker: David Shorr 11:00 - 12:00	
10:30 am		Check-In/Registration	Engineers Exhibitor Lunch 12:00 - 2:00	PDH Session Innovative Project Delivery Methods 12:30 to 1:30 pm
11:00 am				PDH Session Renewable Energy's Holy Grail: Energy Storage Speaker: Kevin Hopper, P.E. 1:30 to 2:30 pm
11:30 am			PDH Session Bagnell Dam Speaker: Phil Thompson 2:00 - 3:00	PDH Session Economic Forecast 2:30 to 3:30 pm
11:50 am			Networking Bagnell Dam Tour (3:30 - 4:30) Golf Outing Young Engineer Networking	
12:00 pm				
12:30 pm				
1:00 pm				
1:30 pm	MSPE Executive Committee Meeting	MSPE & MSPE EF Board of Directors Meetings		
2:00 pm				
2:30 pm				
3:00 pm				
3:30 pm				
4:00 pm				
4:30 pm				
5:00 pm				
5:30 pm	Social Event Beach Party Reception	Social Event Annual Banquet	Kids Activity Dinner & E-Club	
6:00 pm				
6:30 pm				
7:00 pm				
7:30 pm				
8:00 pm				
8:30 pm			Social Event Dessert and Boat Cruise	
9:00 pm				
9:30 pm				
10:00 pm				
10:30 pm		Social Event Presidents Reception		
11:00 pm				
11:30 pm				
12:00 am				

June 13-16, 2010

The Resort and Yacht Club @ Toad Cove Lake Ozark, Missouri

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MSPE members and their families continued to provide generous contributions to MSPE's Educational Foundation by responding to the Annual Appeal or giving through the dues check-off process. Through January 8, 2010, the following donations were received:

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## In Memoriam

William E. Chamberlain, P.E. of Rogers, AR joined MSPE in August 1954. He was affiliated with the St. Louis Chapter and later became at at-large member.

Hossein A. Novin, P.E. of Overland Park, Kansas joined MSPE on March 1, 1984. He was a member of Western Chapter.