



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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Educational Foundation Scholarship Awarded

Steven E. McKee of Weatherby Lake, Missouri and a 2006 graduate of Park Hill High School in Kansas City was selected to receive the MSPE Educational Foundation Jerome & Jeannette Cohen \$1,500 scholarship. McKee enrolled at the University of Missouri-Columbia in the fall of 2006 with the intention of receiving a degree in mechanical engineering.



Steven E. McKee (left) is awarded the MSPE Educational Foundation Scholarship check by University of Missouri-Columbia College Dean James E. Thompson, Ph.D., P.E. (right).



NSPE President Robert S. Miller, III, P.E., FNSPE ascends to great heights while talking to Western Chapter leaders at the chapter's 43rd consecutive annual NSPE President visit.

Have You Received Your Dues Statement?

December 31st is dues payment time for 803 MSPE members. Dues statements, prepared by the National Society of Professional Engineers, were mailed on December 5, 2006 showing the national, state and chapter dues amounts required for membership renewal. There are also a variety of check boxes to indicate voluntary contributions for national and state activities, including MSPE's Educational Foundation Endowment (which supports engineering scholarships), MATHCOUNTS and Building Funds.

If your renewal is the end of the year and you haven't received your statement yet, please contact MSPE's Director of Membership Marla Day at 573-636-4861 or by email at marladay@mspe.org to request another invoice. If you've already submitted your dues payment, thank you!



Gifts To MSPE's Educational Foundation Pay Dividends

During this special time of the year our mailboxes fill quickly with worthy and deserving charitable requests; as you decide upon your charitable gift-giving, please consider that a contribution to MSPE's Educational Foundation pays dividends beyond the holidays.

Choosing the Foundation means your generosity will be rewarded in the following ways:

- To promote the study of engineering;
- To foster suitable standards of engineering education for the licensing of Professional Engineers;
- To improve the public image of engineers in their relations with the public;
- To provide scholarships at one or more engineering schools in the State of Missouri which are accredited by the Accreditation Board for Engineering and Technology, for worthy and qualified applicants

Established on January 15, 1968 under the State of Missouri's General Not for Profit Corporation Law, Chapter 355 RSMo, the Educational Foundation operates as a 501(c)(3) organization exempt from taxation under Section 170 the Internal Revenue Service code.

The Foundation was specifically designed as a way for you, your family, your employer, engineering firms and friends of the society to invest solely in the future of the engineering profession.

Gifts to the Educational Foundation may include financial contributions, donations of stock, estate planning and insurance bequests. Financial contributions are deposited in an endowment fund where only the interest is expended to support the Foundation's endeavors; including, the \$1,500 Jerome and Jeannette Cohen scholarship award, State MATHCOUNTS competition, and the Chapter grants program. If you prefer, however, you can designate your donation for immediate support of these specific programs. You may also choose to apply your contribution to reduce our building debt, which now stands at \$184,000.

Thanks to the generosity of you and your fellow members and the Foundation Board of Directors' aggressive investment strategy, the endowment fund of the Foundation has grown \$20,000 over the last year. Despite the Board of Directors' efforts to make sure our investments provide optimal risk/return, the fact still remains that our endowment is nowhere close to the level where we can support all that we dream of doing to promote engineering. We need your commitment now to increase the endowment fund. Answering this appeal will help make a difference.

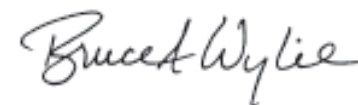
Responding can be done in several ways. You can complete the contribution form included with this request and mail your check to MSPE or you can use the check-off option for voluntary contributions on your 2007 dues statement.

Another option several members have se-

lected is the donation of stock. A simple process allows you to transfer share ownership to the Educational Foundation. Stock transfer enables you to donate at the appreciated value of the stock, claiming a higher deduction than if you donated stock proceeds, while saving on fees and capital gains taxes. When you select the stock contribution method, the MSPE staff or its financial representative will contact you with the transfer details.

Contributions made by December 31, 2006 may be claimed on your 2006 income tax.

Remember, your donation to MSPE's Educational Foundation pays dividends beyond the holiday season and is welcome any day of the year! Your thoughtful contemplation is sincerely appreciated.



Bruce A. Wylie, Executive Director
MSPE Educational Foundation

Are You Eligible?

Life, Retired Member Criteria

Members desiring Life or Retired status should review the bylaws criteria printed below and respond accordingly by **Friday, January 12, 2007** so your name can be submitted to the Board of Directors at their Winter Meeting on Saturday, January 27, 2007.

LIFE MEMBERSHIP

The criteria for Life Membership (waiver of dues with the annual option of paying voluntary dues) is:

- a) Has held a valid license or certificate of registration as a professional engineer.
- b) Is 65 or more years of age and has 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 has paid dues continually each year.

d) Application for life membership may be made personally, by the member's chapter or by MSPE to the Board of Directors.

RETIRED STATUS

Retired membership (half-dues) criteria includes the following:

- a) Has held a valid license or certificate of registration.
- b) Is 65 or more years of age and has retired from full-time employment and/or the active practice of engineering.
- c) Has paid dues to MSPE continuously for at least five years.
- d) Application for retired status may be made *only by personal written request* to the Board of Directors in care of the state office.



The Missouri Engineer

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Jefferson City, MO 65101
Phone: 573-636-6949
FAX: 573-636-5475
www.mspe.org

MSPE Educational Foundation 2006 Contribution Form

Donor Name: _____

Address: _____

City: _____

State: _____ Zip Code: _____

Daytime Phone Number: _____

Gifts to the MSPE Educational Foundation are fully tax-deductible as allowed by law.

Contribution Amount

- \$500.00 \$250.00 \$100.00
 \$50.00 Other amount: _____
 Stock contribution

Name of common stock: _____

Number of shares: _____

(MSPE Staff will call with full details for electronic transfer of stock)

Contribution Category

- Endowment Fund Scholarship
 MATHCOUNTS Building Debt Reduction

Donations made through December 31, 2006 may be deducted on your 2006 income tax return.

Return this form with your contribution to:
MSPE Educational Foundation
200 E. McCarty, Suite 200
Jefferson City, Missouri 65101

Hunter Engineering Wins National New Product Award

MSPE-PEI Chair Scott Saxton, E.I. (center, right) presents Tim Strege, (center, left) vice president of research and development at Hunter Engineering in Bridgeton, Missouri with the National New Product Award for their development of DSP600 Digital Imaging Alignment Sensors. Participating in the award presentation at the company's headquarters were members of Hunter's research and development team along MSPE St. Louis Chapter President Alan Erdmann, P.E., Bill Durbin, P.E., MSPE President-Elect Ronald F. Kadane, P.E., St. Louis Chapter Immediate Past President Breck Washam, P.E., St. Louis Chapter PEI Representative Krista Kotur, E.I. and Denis Fessler, P.E., PEI New Product Award Chair. DSP600 Digital Imaging Alignment Sensors utilize four digital cameras and high-speed processors that collect and analyze vehicle and wheel alignment data instantaneously. This new system requires no calibration, electronics, batteries or cables, making it more efficient and trouble-free.



Sustaining Organizations

ABNA Engineering, Inc.
St. Louis, MO

Allgeier, Martin & Associates
Joplin, MO

Ameren Services
St. Louis, MO

American Concrete Paving Assoc.
Overland Park, KS

Anderson Engineering, Inc.
Springfield, MO

Anderson Survey Company
Lee's Summit, MO

Barton Engineering Co., Inc.
Lebanon, MO

Black & Veatch
St. Louis and Kansas City, MO

Boart Longyear
St. Charles, MO

Burns & McDonnell, Inc.
St. Louis and Kansas City, MO

CAS Construction
Topeka, KS

Central Missouri Professional Services
Jefferson City, MO

Clayton Engineering Company
St. Louis, MO

Cook, Flatt & Strobel, Engineers, P.A.
Topeka, KS

Fred Weber, Inc.
Maryland Heights, MO

GE Geospatial Solutions
Kansas City, MO

George Butler Associates, Inc.
Lenexa, KS

Gibbens Drake Scott, Inc.
Raytown, MO

Harrington & Cortelyou, Inc.
Kansas City, MO

HNTB Corporation
Kansas City, MO

Lockton Companies
Kansas City, MO

Palmerton & Parrish, Inc.
Springfield, MO

Payne & Brockway, P.A.
Olathe, KS

Rhodes Equipment Company
St. Louis, MO

Scurlock Industries
Springfield, MO

Shafer, Kline & Warren
Overland Park, KS

The Austin Company
Kansas City, MO

TranSystems Corporation
Kansas City, MO

University of Missouri-Rolla
Rolla, MO

Van Gilder Agency Company
Merriam, KS

Walter P. Moore and Associates, Inc.
Kansas City, MO

Guidelines Announced For 2007 MSPE PEI New Product Award

New and improved products will be recognized through the New Product Award competition, administered by the Professional Engineers in Industry (PEI) practice division of the Missouri Society of Professional Engineers (MSPE). The competition recognizes the foresight of the companies whose aggressive policies bring new and/or improved products to the marketplace and the full spectrum of benefits that come from their research and development, including added employment, economic development, contribution to the public's standard of living, and strengthening of the nation's competitive position internationally.

Eligibility

Any new product, machine, process, or material that has been developed in the United States may be entered provided that it was first placed on the market between 2001 and 2005.

Entry Forms/Fees

Found online at www.mspe.org. Click "Practice Divisions" on the navigational bar then select Industry and click on the New Product Award Entry Form link. **There is a \$50 entry fee.** Make checks payable to MSPE.

Judging

Nominations will be grouped according to size of company. Winners will be selected in four employment categories: small (50 or fewer employees), medium (51 to 199 employees), large (200 to 9,999 employees), and mega (10,000 or more employees).

Presentation

The 2007 New Product Awards will be presented on Saturday, June 23, 2007, during the Annual Banquet at MSPE's 70th Annual Convention in Kansas City Missouri.

MSPE PEI's 2007 New Product Award Entry Form and Instructions are available online at www.mspe.org under the Professional Engineers in Industry.

National Contest

The top two finalists of the state award in each of the four size categories are eligible for the National Society of Professional Engineers New Product Award contest.

Rules

1. Entries must be received at the MSPE headquarters office, 200 E. McCarty, Suite 200, Jefferson City, MO 65101 no later than April 1, 2006.

2. The entry should include a detailed product description including photos, brochures, and samples if feasible. The entries will be judged on the following criteria. Please be as specific as possible.

• Sales and economic impact (20%):

Marketing - describe the success of any marketing efforts to date. *Economic impact* - describe the product's impact or anticipated impact on the economy. Discuss the use of raw materials, jobs and/or engineering positions created, market share, exports, etc.

• Innovative Use of Engineering Principles (40%):

Creativity - describe how this product is unique from other products providing the same or similar functions. *Technology* - describe how new or current technology is used in the manufacture or production of this product and/or what novel engineering principles are incorporated into its design. *Quality* - describe how this product is superior in its reliability, accuracy, maintainability and construction

• Improved function (40%):

Savings - savings in final cost of product, savings to user of product, savings to environment in its production or use or savings over previous product performing the same function. *Productivity* - efficiency in design and/or production or in ease of use of product, or increased efficiency or ease of use resulting from additional functions over that of a previous product. *Energy* - savings in use of energy during production or in use of product (measured in kwh, btu, etc.). *Safety* - improved safety in the production process or to consumer in use of product.

3. The entry should be separated into sections for each of the above criteria. All materials should be submitted on 8-1/2" x 11" sheets.

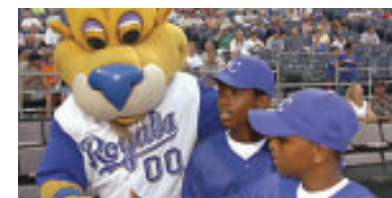
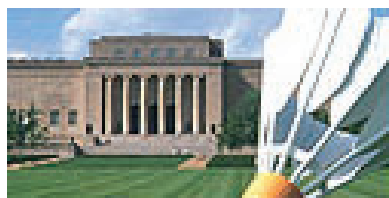
4. **Two** copies of the MSPE nomination form, supporting materials, and samples must be submitted with each entry.

5. Nomination materials, including product samples, become the property of MSPE and will not be returned except through prior request. The granting of an award is not intended in any manner to constitute an endorsement of any product or service.



GOING TO KANSAS CITY

MSPE's 70th Annual Convention at the Historic PRESIDENT HOTEL



Missouri Society of Professional Engineers

Schedule of Events

(Draft Agenda: Program Topics and Speakers Subject To Change)

	7 am	8 am	9 am	10 am	11 am	12 pm	1 Pm	2 pm	3 pm	4 pm	5 pm	6 pm	7 pm	8 pm	9 pm	10 pm	11 pm
Thursday, June 21, 2007			Business Meeting Executive Committee 8:30 to 11:30 am					Convention Check-In 1 to 5 pm			Social Event Welcome Reception		Meal Dinner On Your Own				
			PDH Session Young Engineers Seminar 8:30 to 11:30 am					Meal Lunch on your own	PDH Session 1 to 2 pm Kansas City Downtown Revitalization Project	PDH Session 2 to 3 pm Rebuilding New Orleans							
Friday, June 22, 2007	Convention Check-In 7 to 9 am		PDH Session Keynote Training Session: Developing strong team dynamics with generational diversity 9 am to Noon			Meal Lunch Speaker: Kay Barnes, Kansas City Mayor	PDH Session 1 to 2 pm Leadership Development	PDH Session 2 to 3 pm Business Etiquette	PDH Session 3 to 5 pm Mentoring			Social Event Fun Night					
	Business Meeting Practice Divisions 7:30 to 8:50 am						PDH Session 1 to 2 pm Sprint Arena Project	PDH Session 2 to 3 pm New Water Quality Standards	PDH Session 3 to 4 pm DNR State Revolving Funds	PDH Session 4 to 5 pm Eminent Domain							
							Kids E-Club Event 9 am to 4 pm To Be Determined										
			Spouse Event Luncheon & Tour Toy & Miniature Museum, Webster House and Shopping 9:30 am to 3:45 pm														
		Saturday, June 23, 2007	PDH Session 9 to 10:30 am Ethics/ Negotiation		PDH Session 10:30 to 12 pm Legislative Issues		Meal Lunch on your own		Business Meeting MSPE & Educational Foundation Board of Directors' Meetings 1 to 4 pm			Social Event Annual Banquet & 70 th Birthday Party 6:30 to 11 pm Banquet: Linda Hall Library 70 th Birthday Party: Hilton President Hotel					
Tour Sprint Arena Project								Kids Club Event Dinner and activities 6:00 to 10:30 pm									

NSPE President Visit Is 43rd Consecutive

Excerpted from an article by Merrill W. Watt, II P.E.

In a world where electronic wizardry takes messages around the world within milliseconds, National Society of Professional Engineers (NSPE) President Robert S. Miller, III, P.E., FNSPE believes more can be achieved by meeting people face-to-face.

Miller put his beliefs to the test on September 21, 2006, during a day-long blitz to visit leaders and members of the Missouri Society of Professional Engineers' (MSPE) Western Chapter. This was the 43rd consecutive year - a tradition that is unparalleled nationwide - NSPE's President has come to conduct first-hand assessment and insights along with face-to-face conversations and interactions that yield unscripted, spontaneous dialogue.

Miller describes himself as "high" on his Professional Engineer vocation. Exactly what kind of a "high" can best be understood when you see an enthusiastic Miller pitch. One such pitch occurred at 7:30 a.m. during the "Engineers Early Bird Breakfast and Buzz" attended by current officers and past presidents of Western Chapter, MSPE state society officials, practice division representatives, and their Eastern Chapter, Kansas SPE counter parts. Miller started his presentation by climbing upon a chair. The message, content and personalized interaction is as admirable and unusual as Miller's presentation stance which balances high above everyone. And when he really wants to reinforce his "PE vocation high", he simply ascends higher - this time to the beverage counter surface until the pitch, and Q and A are complete. Impressive, over powering, attention focusing, eye riveting, and mind blowing are fair evaluations of his presentation style.

Every successful trip to the "field" requires maximum interaction with individual and organization members, prospective members and other engineering related organizations. The Society of American Military Engineers (SAME), Greater Kansas City Post treated Miller to a unique presentation on "Recreation Meets the Missouri River-Success with Section 404 Permitting regulations." This first of a kind seminar was hosted by Greater Kansas City Post SAME President Gerald W. Adams with participation from both the government's and owner's side. Precedent forging issues were discussed for two very distinct Missouri River casino boat recreation projects: a water park project that will cover 400 acres and has 16,000 feet of riparian water ways on an agricultural site, and the 100-acre site toy building block maker, The Lego Group, has chosen for their new Lego Land theme park.

Following was a student chapter "Pizza with the Pres" that led off four events scheduled for President Miller to "fly the NSPE flag" at the University of Missouri Kansas City (UMKC) campus. Over 36 student chapter officers, members, and prospective members stopped by to listen, learn and lunch as Miller



NSPE President Robert S. Miller, III, P.E., conducted the 43rd consecutive annual NSPE President Visit to MSPE's Western Chapter. Above, Miller talks about the importance of professional licensure with UMKC student chapter members, prospective members and faculty advisers. Pictured top left, Miller (center) and Western Chapter President Gary Strack (right) visit with UMKC Dean Khosrow Soraby and bottom left, Miller facilitates a meeting with school counselors to address the shortage of future engineering students.

spoke on the importance of licensure, and answered student's questions. But, that is not all the President did. When Western Chapter's President Gary Strack, P.E. announced financial assistance of \$500 to help pay dues for new NSPE Student Chapter members, Miller with swift decisiveness and an attention commanding deep-toned voice announced a \$500 on-the-spot match so every student in the room could join that day.

Next, Miller exchanged views with leaders from area engineering organizations, firms and academia at an Engineer Leaders' Symposium and Lunch hosted by UMKC Chancellor Guy H. Bailey, Ph.D. Meaningful dialogue shaped positions on significant current and future issues.

And, after lunch, another first of its kind seminar, "Pipeline into the Future - America's Engineer Shortage", found Miller meeting with school counselors and related UMKC academia, philanthropic, science project organizers and math and science curriculum specialists to discuss the challenges of connecting 7th to 12th grade students with an engineering career. Miller emceed the ground-breaking event and he smartly stepped into the breach to answer a barrage of questions and offer specific examples of resource centers where educators could get help.

Miller's up front and personal time with Dean Khosrow Sohraby, Ph.D., P.E. and his faculty headlined Licensure of Professors and Academia Equivalency. The Dean's recent success in earning his P.E. license was vigorously applauded. Strong encouragement was offered for his faculty to obtain their own licensure because professors convey a power-



ful role model through frequent interaction with engineering students. Missouri's recent registration law modification allowing PhD candidates to forego the FE exam and take the PE was explained to the faculty.

Part of our membership value in NSPE is the opportunity to present direct, frank, face-to-face commentary about tough issues and challenges facing engineers in each practice division. What would make NSPE / State Society, and Local Chapter memberships so personally and professionally enticing that all new engineering graduates would be eager to join as members for life? To learn answers directly from the grass roots leaders, Miller attended the joint meeting of Western Chapter, MSPE and Eastern Chapter, KSPE Boards of Directors and general membership dinner meeting at the renowned Hereford House Steak Restaurant. Once again he presented his "passion" for our profession. Miller told the gathering the founders of NSPE left us a legacy to defend our profession. He believes the equation $Courage * Commitment + Talent * Teamwork = Legacy$ is the foundation of what we will need to do so our grandchildren will have an opportunity to participate in this great profession.

Miller's opinion of the sun up to past-sun-down, seven-event field trip to Kansas City was concise, "WOW! It was a wonderful experience and a day I'll remember and treasure for a long time."



Coming February 28, 2007

Professional Engineers Day At The Capitol

a joint function of



Watch for more details!

Classifieds

CITY OF JEFFERSON JOB OPPORTUNITY



CIVIL ENGINEER I

The City of Jefferson seeks a Civil Engineer to design, review and assist with planning construction and capital improvement projects including streets, sidewalks, storm water and sanitary sewer projects; prepare responses to citizen inquiries; and provide technical assistance to other departments and outside consultants ensuring consistent adherence to all codes and engineering standards. Requires an accredited BS degree in Civil Engineering or closely related field; the ability to use AutoCAD or equivalent drafting software to prepare engineering drawings; and a valid MO driver's license. Must have the ability to withstand extreme weather conditions; traverse rough terrain; retain and recall large amounts of technical information; and effectively communicate with the public. Monthly salary \$3,491-\$5,237. Application deadline is January 19, 2007.

Full-time personnel must reside within 25 miles and 30 minutes of the City limits within six months of hire. Interested applicants may print an application from our web site www.jeffcitymo.org, or complete an applica-

tion in person at the City of Jefferson, Human Resources Department, 320 E. McCarty, Jefferson City, MO. Employment Hotline: 573/636-9900. EEO/M/F/D/V.



ENGINEERING MANAGER/ ASSISTANT DIRECTOR OF PUBLIC WORKS

The City of Joplin is accepting applications for an **Engineering Manager/Assistant Director of Public Works**. Position supervises activities of the engineering department, traffic-engineering department and capital improvement projects, and reviews the work of subordinate engineering staff involved in a variety of public works engineering oriented activities, including street design, general field survey, contract/bid development, public works construction project inspection, and the design and construction/renovation of City buildings and facilities. Position confers with and provides technical engineering advice to consulting engineers and contractors regarding the design, construction, maintenance, and repair of streets, sewer lines, traffic controls and municipal structures and facilities. Posi-

tion requires knowledge of the principles and practices of public administration, including budgeting, program planning/development, project management and employee training and supervision. Attends City Council meetings to respond to questions regarding engineering projects.

Qualified applicants must possess a Bachelor's degree in Civil Engineering or closely related area of Engineering and experience equivalent to four years of professional engineering, at least two of which must have been in a public works setting. Must possess registration as Professional Engineer (P.E.); must possess/obtain Missouri registration as a P.E. within six months of employment. Must possess a valid driver's license. Salary range is \$50,652 - \$74,977 annually, with excellent benefits.

Joplin is the fourth largest metropolitan area in Missouri, and is the retail, manufacturing and medical hub for a surrounding area encompassing parts of four states. With a population of 49,000 residents, the daytime population of the City expands to approximately 270,000. Joplin is consistently rated as one of the lowest cost of living areas in the United States.

Resumes will be accepted in addition to, but not in lieu of, a City application. Obtain required application from the City of Joplin Human Resources Office at 602 South Main Street in Joplin, MO. 64801. Open until filled. Pre-employment and random drug testing is required of all successful applicants. The City

of Joplin is an Equal Opportunity, Affirmative Action, and ADA Employer. M/F/H/V

TRANSPORTATION ENGINEER/DESIGNER

Access Engineering, LLC, a small, growing engineering firm in St. Louis County is seeking a full-time transportation engineer/designer with expertise using Microstation/Geopak. Traffic signal and roundabout design experience a plus. Competitive salary, flexible schedule, health insurance and matched savings plan. E-mail resume to mdennis@acceng.com.

CLASSIFIED AD PLACEMENT

To place your classified advertisement please email your ad copy, any special instructions and billing information to The Missouri Engineer, Cherie L. Bishop, Editor at cheriebishop@mspe.org or call 573-636-6949. Visit our web site at www.mspe.org for more information.

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- Water Source Elimination
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- More Than 20 Years Experience



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www.kcwaterproofing.com



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z. Total Paid and/or Requested Circulation (Sum of 12b and 12c): 1686

Professional Card Listings

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Jefferson City, MO 65109

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Engineering Survey & Services
802 El Dorado Dr
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Ozark Chapter
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Springfield, MO 65803

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MSPE Winter Meeting

9:30 a.m. to 2 p.m., Saturday, January 27, 2007

MSPE OFFICE,
200 E. McCARTY STREET, Jefferson City, MO

Cost: \$15

Registration deadline Friday, January 19, 2007.

Mail this form with appropriate fee to:

MSPE 200 E. McCarty St., Suite 200, Jefferson City, MO 65101.

Tentative Agenda

- 9:30 a.m. Registration and Coffee
- 10:00 a.m. MSPE Board of Directors Meeting
- 12:00 p.m. Lunch
- 1:00 p.m. MSPE Educational Foundation Board Meeting
- 2:00 p.m. Adjourn

Who Should Attend:

State Officers, State Directors, Practice Division Chairs, State Committee Chairs and Chapter Presidents. **All members are welcome to attend.**

Voting Protocol:

In accordance with the MSPE and MSPE Educational Foundation Bylaws, only state directors, practice division chairs and state officers may vote. **Any member may discuss agenda items.**

Attire:

Business Casual

MSPE Winter Meeting Registration Form

Name: _____

MSPE Title: _____

Daytime Phone: _____

Email: _____

CHAPTER STATE DIRECTORS UNABLE TO ATTEND must notify chapter presidents to designate an alternate. PRACTICE DIVISION CHAIRS UNABLE TO ATTEND must designate an alternate from their practice division. All designated alternates must be submitted to MSPE's Executive Director by the January 19, 2007 deadline. **Please Note: No alternates will be accepted the day of the meeting.**



The Missouri Engineer

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Jefferson City, Missouri 65101