

# JANUARY/FEBRUARY

## MEETING

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Dept. of Mining Engineering  
Missouri University of Science &  
Technology

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**STUDENT LIASON:**

Dr. Kwame Awuah-Offei  
Dept. of Mining Engineering  
Missouri University of Science &  
Technology  
Dr. Catherine Johnson  
Dept. of Mining Engineering  
Missouri University of Science &  
Technology

***Underground Mine to Storage Facility Conversion***- by Tom Boutaugh and Manoj Mohan, Penta Engineering

PENTA Engineering Corporation is a 37 year old St. Louis based consulting, engineering and EPC/EPCM firm specializing in mining and minerals processing projects.

Penta helped convert an existing underground mine to an underground storage facility with over six million square feet of space. This presentation will detail the conversion project including the steps and challenges that PENTA collaboratively overcame with Owner to successfully complete the conversion.

### **Tom Boutaugh, P.E., Senior Consultant**

Tom Boutaugh has over 40 years of experience in planning, scheduling, and execution of projects in the mining industry. His expertise includes managing all aspects of design and construction. His extensive mining experience in underground mines and limestone quarries includes mine plans, material handling, ventilation, quality control, blasting, and management of mining operations. He is a member of SME, ASME, and ASCE, is a certified MSHA instructor, holds Foreman Certification in Illinois, Kentucky and Ohio, and is certified in Illinois as a Mine Manager, Examiner and Shot-firer. He holds a BS in Mining Engineering from West Virginia University.

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- **Manoj Mohan, VP of Business Development**

Manoj Mohan leads PENTA Engineering Corporation's business development team and is responsible for securing key opportunities to further develop and diversify PENTA's client base. He has experience developing and implementing multiple channel sales and marketing strategies for industrial businesses with a proven track record of growing revenue in existing markets, while identifying opportunities in new markets. He holds a B.A. in Psychology from St. Louis University, St. Louis, and an MBA from Washington University, St. Louis, Missouri.

**When: Thursday, February 9th    Social: 6 PM, Dinner: 6:30 PM**

**Where: Andre's Banquet and Catering South. 4254 Telegraph  
Road St. Louis MO 63129    314 894 2622**

**RSVP: By Tuesday February 7th**

**By email to:** [bob.johnston@earthlink.net](mailto:bob.johnston@earthlink.net) or [sme.stl.section@gmail.com](mailto:sme.stl.section@gmail.com)

**By phone:    Bob Johnston 314-570-0226**

**Menu:** Buffet to include two entrée choices, pasta, Salad, Rolls, and  
[Open Bar!](#)

**Cost:    \$30, \$10 for students    Cash, debit or credit card  
accepted.**

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**You need not be a member of National SME. Bring a friend!**  
**\*\*Need Professional Development Hours? Each meeting is 1 hour.\*\***

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