

# MINING ENGINEERING CONFERENCE

Capacity Renewal: Past - Present - Future • September 2-3, 2009 • Missouri S&T



## Conference Program Wednesday Sept. 2, 2009

Registration starts at  
7:00 a.m., Miner Lounge,  
Havener Center

Time	Program Activity/Location	Speaker/Leader/Presenter
7:15 - 8:00 a.m.	Continental Breakfast / St. Pat's A	
8:00 - 8:10 a.m.	Welcome/Introductions / St. Pat's B	<b>Samuel Frimpong</b> , Professor and Robert H. Quenon Endowed Chair of Mining Engineering, Missouri S&T
8:10 - 8:30 a.m.	Address by Chancellor / St. Pat's B	<b>John F. Carney III</b> , Chancellor, Missouri S&T
8:30 - 9:00 a.m.	Opening Keynote Address / St. Pat's B	<b>Andrew Harding</b> , President and CEO, Kennecott Utah Copper
9:00 a.m. - Noon	<b>Rotating Tours:</b> (with refreshments served in 231 McNutt) • Mining Department • Building 4 • Rock Mechanics • Experimental Mine	<b>Tour Guides:</b> <b>Jason Baird</b> (MinE '01), Associate Professor <b>Jimmy Taylor Sr.</b> , Mine Supervisor <b>Dewayne Phelps</b> , Assistant Mine Supervisor
Noon - 1:30 p.m.	Lunch with Keynote Address / St. Pat's C	<b>Bruce Neil</b> , President and CEO Doe Run Company
1:30 - 1:45 p.m.	Special Presentation / St. Pat's C	<b>P&amp;H Mining Company</b>
1:45 - 2:15 p.m.	Research Showcase/Poster Session / St. Pat's A	Faculty and Graduate Students
2:30 - 3:45 p.m.	<b>Human Resources Development I: Forum on Technological Direction of the Mining Industry</b> / St. Pat's B <b>Co-Chairs:</b> <b>Barbara Busby</b> (MinE'79) Vice President Sales and Marketing, Peabody Energy <b>Michael Ferguson</b> (MinE'79) Vice President, Taggart Global	<b>Jeff Rosser</b> (MinE '85), Superintendent, Open Pit Mine Maintenance, Barrick Goldstrike <b>Pat Risner</b> (MinE '93), Director, Business Operations, BHP Billiton <b>Chris Ward</b> (MinE '96), Operations Manager, Hanson Aggregates
3:45 - 4:00 p.m.	Break / St. Pat's A	
4:00 - 5:15 p.m.	<b>Human Resources Development I: (continued)</b> / St. Pat's B	<b>Mark Adams</b> (MinE '02), Quarry/Mill Manager, USG Corp. <b>Jim Humphrey</b> (MinE '79), Senior Principal Consultant, CAT Global Mining <b>Richard Marston</b> , President & Principal Consultant, Marston & Marston
6:00 - 6:30 p.m.	Reception-Social (Cash Bar) / St. Pat's A	
6:30 - 9:00 p.m.	Dinner with Keynote Address State of Rolla Mining Engineering & Future - A Call to Invest / St. Pat's C	<b>Samuel Frimpong</b> , Professor and Robert H. Quenon Endowed Chair of Mining Engineering <b>Paul A. Lang</b> (MinE '83), Senior Vice President, Operations, Arch Coal; Member, Development Board; Conference General Chair

## Short Courses

**Wednesday, Sept. 2, 2009**

### DPM Monitoring and Control

9:00 a.m. - 2:30 p.m.

114 McNutt Hall

PDHs: 4 hours

Course Instructors Drs. Jerry Tien, Stewart Gillies and Aleksandar Bugarski

This course will acquaint attendees with the provisions of the MSHA DPM rule for metal and nonmetal underground mines. It will familiarize operators with the current monitoring techniques and instrumentation in the field. It will also provide mine operators with detailed practical technical information on available DPM controls that can be used to reduce DPM emissions and personal exposures to DPM.

### Surface Mine Bench Design

9:00 a.m. - 2:30 p.m.

Experimental Mine

PDHs: 4 hours

Course Instructor Dr. Paul Worsey

This course will: cover the fundamentals of effective bench blast design for use with modern bulk systems; focus on economics fitting in with geology and maximizing pit slope angles; demonstrate how to select equipment and bench configurations to maximize production capacity; provide tips for thinking outside the box to avoid traps that many large scale mining operations fall into.



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## Conference Program - Thursday Sept. 3, 2009

Time	Program Activity/Location	Speaker/Leader/Presenter
7:15 - 8:00 a.m.	Continental Breakfast / St. Pat's A	
8:00 - 8:10 a.m.	Welcome and Introduction of Program and Guests / St. Pat's B	<b>Genevieve Bodnar</b> , (MinE '01, MetE '99) <i>Environmental Manager</i> , Fred Weber
8:10 - 8:40 a.m.	Keynote Address / St. Pat's B	<b>Mike McCall</b> (MinE '80), <i>Former Chairman and CEO</i> , Luminant Energy
9:00 - 10:15 a.m.	<b>Human Resources Development II: Forum on Educating the Next Generation of Students to Meet Industry Challenges</b> / St. Pat's B  <b>Co-Chairs:</b> <b>DJ Steagall</b> (MinE'84) <i>General Mines Manager</i> , Mississippi Lime <b>Chris Upp</b> (MinE'96) <i>Director of Operations</i> , CONCO Quarries	<b>Leigh Freeman</b> , <i>Principal</i> , Downing Teal <b>Larry Grayson</b> , <i>Professor of Energy and Mineral Engineering</i> ; <i>George H., Jr., and Anne B. Deike Chair in Mining Engineering</i> , Penn State <b>Bill Kennedy</b> , <i>President and CEO</i> , Kennedy Metal Products; <i>Member</i> , Development Board
10:15 - 10:30 a.m.	Break / St. Pat's A	
10:30 - 11:30 a.m.	<b>Human Resources Development II (continued)</b> / St. Pat's B	<b>Bob Schwartz</b> , <i>Vice Provost</i> , Academic Affairs, Missouri S&T <b>Rob Vogel</b> , <i>President</i> , Vulcan Construction Materials <b>Discussion</b>
11:30 - 11:50 a.m.	History of Rolla Mining Engineering / St. Pat's B	<b>Richard Bullock</b> (MinE'51), <i>Professor Emeritus</i> , Missouri S&T
Noon - 1:30 p.m.	Lunch with Keynote Address / St. Pat's C	<b>Greg Lang</b> , (MinE '77), <i>President</i> Barrick North America
2:00 - 3:15 p.m.	<b>Executive Forum on Navigating The Global Economic Downturn</b> / St. Pat's B  <b>Co-Chairs:</b> <b>Bryan Galli</b> (MinE'82) <i>President of Coal Sales</i> , Peabody Energy <b>John Anderson</b> (MinE'81), <i>Vice President</i> , Martin Marietta	<b>Janpeter Bekkering</b> , <i>North American Region Mining Manager</i> , Caterpillar - Global Mining <b>Michael DeCola</b> , <i>President and CEO</i> , Mississippi Lime Company <b>John W. Eaves</b> , <i>President and COO</i> , Arch Coal, Inc.
3:15 - 3:30 p.m.	Break / St. Pat's A	
3:30 - 4:45 p.m.	<b>Executive Forum (continued)</b> / St. Pat's B	<b>Stephen A. Lang</b> (MinE'78), <i>President and CEO</i> , Centerra Gold <b>C. Howard (Ward) Nye</b> , <i>President and COO</i> , Martin Marietta Materials, Inc. <b>Mark Walker</b> , <i>Vice President</i> , North & South America, Immersive Technologies
6:00 - 6:30 p.m.	Reception-Social (Cash Bar) / St. Pat's A	
6:30 - 9:00 p.m.	Keynote Address & Conference Banquet / St. Pat's C	<b>Warren K. Wray</b> , <i>Provost and Executive Vice Chancellor</i> , Academic Affairs, Missouri S&T <b>Dianna Tickner</b> (MinE '79), <i>Vice President</i> , Generation Development, Peabody; <i>Chair</i> , Mines & Metallurgy Academy; <i>Mining Engineering Representative</i> , Provost Engineering Board <b>Samuel Frimpong</b> , <i>Professor and Robert H. Quenon Endowed Chair of Mining Engineering</i>
9:00 p.m.	Fireworks	
10:00 p.m.	Conference Adjourns	

### Keynote Speakers

#### Wednesday, Sept. 2, 2009



**Paul A. Lang (MinE'83)**  
*Conference General Chair*  
*Senior Vice President*  
*Operations Arch Coal, Inc.*



**Andrew Harding**  
*President and CEO*  
*Kennecott Utah Copper*



**Bruce Neil**  
*President and CEO*  
*Doe Run Company*  
(photo by Bloomberg)

#### Thursday, Sept. 3, 2009



**Mike McCall (MinE'80)**  
*Former Chairman and CEO*  
*Luminant Energy*



**Greg Lang (MinE'77)**  
*President*  
*Barrick Gold of*  
*North America, Inc.*



**Dianna Tickner (MinE'79)**  
*Vice President*  
*Generation Development*  
*Peabody*

### Executive Forum Speakers

#### Thursday, Sept. 3, 2009



**Janpeter Bekkering**  
*North American Region*  
*Mining Manager*  
*Caterpillar - Global Mining*



**Michael DeCola**  
*President and CEO*  
*Mississippi Lime Company*



**John W. Eaves**  
*President and COO*  
*Arch Coal, Inc.*



**Stephen A. Lang (MinE'78)**  
*President and CEO*  
*Centerra Gold*



**C. Howard (Ward) Nye**  
*President and COO*  
*Martin Marietta Materials, Inc.*



**Mark Walker**  
*Vice President*  
*North & South America*  
*Immersive Technologies*