Presentation Schedule
**July 27, 2015**  
**Monday**

6:00 - 7:30 PM  
Author's Reception  
Sponsored by: Orica  
Georgetown, KY

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**July 28, 2015**  
**Tuesday**

7:00 - 7:45 AM  
Author's Breakfast  
Sponsored by: BASF Construction Chemicals  
Cleveland, OH

8:00 - 8:30 AM  
*Welcoming Remarks and Syd S. Peng Awards*  
Chairmen:  
Tom Barczak  
ICGCM  
Venetia, PA

Keith Heasley  
West Virginia University  
Morgantown, WV

Stephen Tadolini  
Orica Ground Support  
Lakewood, CO

8:30 - 10:00 AM  
*Ground Control Design Tools*  
Chairmen:  
Jack Trackemas  
NIOSH, Office of Mine Safety and Health Research  
Pittsburgh, PA

Keith Heasley  
West Virginia University  
Morgantown, WV

059. A Procedure for the Rapid Assessment of Coal Mine Roof Stability Against Large Roof Falls, Gabriel Esterhuizen, John L Ellenberger, Ted Klemetti, NIOSH, Office of Mine Safety and Health Research, Pittsburgh, PA

092. Analysis of Alternatives for Using Cable Bolts As Primary Support at Two Low-seam Coal Mines, Gabriel S Esterhuizen, NIOSH, Office of Mine Safety and Health Research, Pittsburgh, PA

016. A Case Study of Multi-seam Coal Mine Entry Stability Analysis with Strength Reduction Method, Ihsan Berk Tulu, Gabriel S Esterhuizen,
Ted Klemetti, Michael M Murphy, NIOSH, Office of Mine Safety and Health Research, Pittsburgh, PA; James Sumner, Lone Mountain Processing Inc., ST. Charles, VA; Michael Sloan, Lone Mountain Processing Inc., ST. Charles, VA

086. The Design of Primary Ground Support During Roadway Development Using Empirical Databases, Ry Stone, Golder Associates Pty Ltd, Newcastle, Australia

064. The Science of Empirical Design in Mining Rock Mechanics, Christopher Mark, MSHA, Pittsburgh Safety and Health Technology Center, Pittsburgh, PA

10:00 - 10:30 AM Break
Sponsored by: Orica
Georgetown, KY

10:30 AM - 12:00 PM Bump Related Research
Chairmen: Ted Klemetti
NIOSH, Office of Mine Safety and Health Research
Pittsburgh, PA

Alan Campoli
Jennmar Corporation
Pittsburgh, PA


015. Dynamic Failure in Coal Seams: Implications of Coal Composition for Bump Susceptibility, Heather E Lawson, NIOSH, Office of Mine Safety and Health Research, Spokane, WA, Andrew Weakley, University of Idaho, Boise, ID, Arthur Miller, NIOSH, Office of Mine Safety and Health Research, Spokane, WA

066. Geotechnical Risk Management to Prevent Coal Outburst in Room and Pillar Mining, Peter Zhang, Scott Peterson, Dan Neilans, Scott Wade, Ryan McGrady, Joe Pugh, Alpha Natural Resources, Inc., Waynesburg, PA

048. Occurrence, Predication, and Control of Coal Burst Events in the U.S., Anthony T Iannacchione, University of Pittsburgh, Pittsburgh, PA, Stephen C Tadolini, Orica Ground Support, Golden, CO

062. Evaluating the Risk of Coal Bursts in Underground Coal Mines, Christopher Mark, Michael Gauna, MSHA, Pittsburgh Safety and Health Technology Center, Pittsburgh, PA

12:00 - 1:00 PM Lunch
Sponsored by: Jennmar Corporation
Pittsburgh, PA

1:00 - 2:30 PM Ground Response Research
Chairmen: Essie Esterhuizen
NIOSH, Office of Mine Safety and Health Research
Pittsburgh, PA
Christopher Mark
MSHA, Pittsburgh Safety and Health Technology Center
Pittsburgh, PA

019. Measurements of Horizontal Shear Movements Ahead of Longwall Mining and Implications for Overburden Behaviour, Ken W Mills, Jesse Puller, Strata Control Technology, Wollongong, Australia, Owen Salisbury, Whitehaven Coal, Wollongong, Australia

020. In Situ Stress Measurement and Stress Change Monitoring in a Longwall Mine to Monitor Overburden Caving Behaviour and to Design a Hydraulic Fracture Treatment Program, Jesse w Puller, Ken w Mills, Strata Control Technology, Wollongong, Australia, Rob G Jeffrey, CSIRO Energy, Melbourne, Australia

080. Load Transfer Distance Measurements at Two Mines in the Western U.S., Mark K Larson, Heather E Lawson, Douglas R Tesarik, NIOSH, Office of Mine Safety and Health Research, Spokane, WA


005. A Combined 2D and 3D Modelling Approach to Provide Adequate Roof Support in Complex 3D Excavations, Yvette S Heritage, Craig A Stemp, SCT Operations Pty Ltd, Wollongong, Australia

2:30 - 3:00 PM Break
Sponsored by: Agapito Associates, Inc.
Grand Junction, CO

3:00 - 4:30 PM Support Performance Assessment
Chairmen: Kyle Perry
University of Kentucky
Lexington, KY
Peter Zhang
Alpha Natural Resources, Inc.
Waynesburg, PA

011. Axial Performance of a Modified Fully Grouted Cable Bolt Tested with a New Laboratory Short Encapsulation Pull Test, Jianhang Chen, Paul C Hagan, Serkan Saydam, University of New South Wales, Sydney, Australia

035. Characterization of Tensile and Shear Loading on Smooth and
Indented Wires and PC-strand Cable Bolts, Stephen C Tadolini, Orica Ground Support, Georgetown, KY, Steven Derycke, Bekaert SA, Brussels, Belgium, Anand Bhagwat, Orica Ground Support, Georgetown, KY

013. Laboratory Studies on Creep Behavior of Grouted Tensioned Rebar in Weak Strata, Anthony (Sam) JS Spearing, Aditya Mishra, Naga SY Tirumalaraju, Southern Illinois University Carbondale, IL, Joseph Hirschi, Illinois Clean Coal Institute, Carterville, IL

039. Investigations Into the Corrosive Environments Contributing to Premature Failure of Australian Coal Mine Rock Bolts, Peter H Craig, Serkan Saydam, Paul Hagan, Damon Vandermaat, Elias Elias, Alan Crosby, University of New South Wales, Sydney, Australia

074. Vertical Load Capacities of Roof Truss Cross Members, David F. Gearhart, Khaled M. Mohamed, NIOSH, Office of Mine Safety and Health Research, Pittsburgh, PA

6:00 - 7:30 PM  Reception  
Sponsored by: DSI Underground Systems Inc  
Martinsburg, WV

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**July 29, 2015  Wednesday**

7:00 - 7:45 AM  Author's Breakfast  
Sponsored by: BASF Construction Chemicals  
Cleveland, OH

8:00 - 8:30 AM  **Research Visions for Ground Control**  
Chairman: Tom Barczak  
ICGCM  
Venetia, PA

023. On Research Needs in Coal Mine Ground Control, Syd Peng, West Virginia University, Morgantown, WV

8:30 - 9:45 AM  **Equipment and Product Development**  
Chairman: Stephen Tadolini  
Orica Ground Support  
Lakewood, CO

027. Development of An Online User's and Training Manual for LaModel, Christopher R Newman, Keith A Heasley, West Virginia University, Morgantown, WV,


032. Development and Implementation of the "Spin to Stall" Resin
Bolting System at Anglo Americans Australian Underground Coal Operations, Jason Emery, Anglo American Coal, Middlemount, Australia, Ismet Canbulat, University of New South Wales, Sydney, Australia, Peter Craig, Jennmar, Sydney, Australia, John Naylor, Jennmar, Mackay, Australia, Andy Sykes, Rocbolt Resins, Sydney, Australia

079. Optimizing Drilling Parameters for Improved Bolting Safety and Performance, Darin Cotton, Tim Burgess, Tim Martin, J.H. Fletcher & Co., Huntington, WV

9:45 - 10:00 AM  
*Oraee Scholarship Presentation*

Chairman:  
Stephen Tadolini  
Orica Ground Support  
Lakewood, CO

10:00 - 10:30 AM  
Break

10:30 AM - 12:00 PM  
*Chinese Delegation Presentations & Industry Update*

Chairman:  
Jiachen Wang  
China University of Mining and Technology  
Beijing, China

12:00 - 1:00 PM  
Box Lunch

6:00 - 9:00 PM  
Barbecue  
Sponsored by:  
Rosebud Mining Company  
Kittanning, PA

July 30, 2015  
Thursday

7:15 - 8:8 AM  
Author's Breakfast  
Sponsored by:  
BASF Construction Chemicals  
Cleveland, OH

8:30 - 10:00 AM  
*Roof and Rib Control*

Chairmen:  
Donovan Benton  
Office of Mine Safety and Health Research, Spokane  
Spokane, WA

Brijes Mishra  
West Virginia University  
Morgantown, WA

009. Selection of Pumpable Cribs for Longwall Gate and Bleeder Entries, Alan A Campoli, Jennmar Corporation, Pittsburgh, PA

050. Numerical Modeling of Standing Support Performance in Entries Between Longwall Gobs, Benjamin Mirabile, Jennmar Corporation,


Void Fill Techniques for Stabilizing Roof Conditions During Longwall Shield Recovery, Robin L Oldham, GMS Mine Repair and Maintenance, Waynesburg, PA, Craig Dickerson, Rusty McHenry, CONSOL Energy Inc., Crabapple, PA

10:00 - 10:30 AM Break
Sponsored by: Heintzmann Inc.
Cedar Bluff, VA

10:30 AM - 12:00 PM **Mine Case Studies**
Chairmen: Greg Hasenfus
Consol Energy Inc.
Canonsburg, PA
Anthony Iannacchione
University of Pittsburgh
Pittsburgh, PA

Underground Measurement of Gateroad Stability at the Depth Around 1000m, Zbigniew Lubosik, Stanislaw Prusek, Aleksander Wrana, Andrzej Walentek, Glowny Instytut Gornictwa (Central Mining Institute), Katowice, Poland

Floor Heave Control Outby the Seal Line in No. 11 West Kentucky Seam, Kyle Perry, University of Kentucky, Lexington, KY, Joel Bradley, Alliance Resource Partners, LP, Madisonville, KY, Kot Unrug, University of Kentucky, Lexington, KY, Mark Klimek, Alliance Resource Partners, LP, Madisonville, KY

Multiple-seam Mining in the United States: An Analysis of Multiple Seam Stability in Northern Appalachian Coal Mines with Minimal Depth of Cover and Interburden, Michael J Castner, Rosebud Mining Company, Kittanning, PA

Analysis of Roof and Pillar Failure Associated with Weak Floor at a Limestone Mine, Michael M Murphy, Gabriel S Esterhuizen, John L Ellenberger, NIOSH, Office of Mine Safety and Health Research, Pittsburgh, PA, Tim Miller, East Fairfield Coal Company, North Lima, OH

New Developments in the Area of Influence of Longwall Excavations, Axel Preusse, Markus Papst, Denise Weber, Laurenz Preusse, Jürgen Kateloe, RWTH Aachen University, Aachen, Germany
12:00 - 1:00 PM  
Lunch  
Sponsored by:  
J.H. Fletcher & Co.  
Huntington, WV  

1:00 - 2:30 PM  
Pillar and Rock Mass Characterization  
Chairmen:  
Michael Murphy  
NIOSH, Office of Mine  
Safety and Health Research  
Pittsburgh, PA  

Heather Lawson  
NIOSH, Office of Mine  
Safety and Health Research  
Spokane, WA  

037. Estimating Coal Pillar Strength for Low Coal Seam, Andre Cezar Zingano, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil  

017. How Interface Friction and W/H Ratio Affect the Mode of Failure of Coal Specimens, Gamal Rashed, Syd Peng, West Virginia University, Morgantown, WV  

075. Effect of Geological and Mining Factors on Roof Stability of a Room and Pillar Mine in US, Taghi Sherizadeh, Pinnaduwa H.S.W. Kulatilake, University of Arizona, Tucson, AZ  


042. The Potential of Acoustic Emissions From Three Point Bending Tests As Rock Failure Precursors, Zach Agioutantis, University of Kentucky, Lexington, KY, Kostas Kaklis, Stelios Mavrigiannakis, Michael Verigakis, Technical University of Crete, Chania, Greece, Filippos Vallianatos, Vasilis Saltas, Technological Educational Institute of Crete, Chania, Greece  

2:30 - 3:00 PM  
Break  
Sponsored by:  
Golder Associates  
Burton-on-Trent, Staffordshire  

3:00 - 4:30 PM  
Ground Monitoring Studies  
Chairmen:  
David Gearhart  
NIOSH, Office of Mine  
Safety and Health Research  
Pittsburgh, PA  

Vincent Scovazzo  
John T. Boyd Company

077. Time-Lapse Photogrammetric Monitoring of An Underground Stone Mine, Brent A Slaker, Erik Westman, Virginia Tech, Blacksburg, VA, John Ellenberger, Michael Murphy, NIOSH, Office of Mine Safety and Health Research, Pittsburgh, PA

084. Discriminating Mining Induced Seismicity From Natural Tectonic Earthquakes in the Wasatch Plateau Region of Central Utah, Jared R Stein, Kristine L Pankow, Keith D Koper, Michael K McCarter, University of Utah, Salt Lake City, UT

073. Application of Regional Subspace Detection to Identify Mining Related Seismicity, Derrick JA Chambers, Michael K McCarter, University of Utah, Department of Mining Engineering, Salt Lake City, UT, Keith D Koper, Kris L Pankow, University of Utah, Department of Geology and Geophysics, Salt Lake City, UT

024. An Approach to Predict Rock Mass Deformations in Three Dimensions for a Part of An Open Pit Mine and Comparison with Field Deformation Monitoring Data, Pinnaduwa H.S.W. Kulatilake, Biao Shu, University of Arizona, Tucson, AZ