Final Program

August 1, 2006 (Tuesday)

7:30 - 8:20 am  Author's Coffee

8:20 - 8:30 am  Welcome & Conference Administrative Announcements

8:30 - 9:12 am  Keynote Address
David Dye
Acting Assistant Secretary
Mine Safety and Health Administration
Washington DC

9:12 - 10:00 am  Session I
Chairman: Klaus-Dieter Beck
Foundation Coal Company
Linthicum Heights, MD

44. The Evolution of Intelligent Coal Pillar Design: 1981-2006, C. Mark, NIOSH-Pittsburgh Research Laboratory, Pittsburgh, PA. (p. 325-334)


10:00 - 10:30 am  Break
Sponsored by: Minova USA Inc.
Georgetown, KY

10:30 am - 12:06 pm Session II
Chairmen: Greg Hasenfus
CONSOL Energy
Pittsburgh, PA

John Rusnak
Peabody Energy
St. Louis, MO

15. 25 Years of Ground Control Developments, Practices, and Issues in Australia, B. Hebblewhite, The University of New South Wales, Sydney, Australia. (p. 111-117)

51. Twenty-Four Conferences; More Than One-Hundred and Seventy Papers; Understanding Roof Bolt Selection and Design Still Remains Priceless, S. Tadolini, NIOSH-Pittsburgh Research Laboratory, Pittsburgh, PA and R. Mazzoni, MSHA-Pittsburgh Safety and Health Technology Center, Pittsburgh, PA. (p. 382-389)
1. **25 Years of Progressive in Numerical Modeling for Ground Control – What Have We Accomplished and Where Do We Go Next?** K. Heasley, West Virginia University, Morgantown, WV and D. Su, CONSOL Energy, Eighty Four, PA. (p. 10-17)

32. **A Retrospective Assessment of Longwall Roof Support with a Focus on Challenging Accepted Roof Support Concepts and Design Premises**, T. Barczak, NIOSH-Pittsburgh Research Laboratory, Pittsburgh, PA. (p. 232-244)

12:06 – 1:06 pm Lunch

1:06 – 3:06 pm Session III
Chairmen: Bruce Hebblewhite
University of New South Wales
Sydney, Australia

Chris Mark
NIOSH – Pittsburgh Research Lab
Pittsburgh, PA


10. **Reflections on the Application of Geophysics to Ground Control**, P. Hatherly, University of Sydney, Sydney, NSW, Australia. (p. 78-85)

3:06 – 3:36 pm Break
Sponsored by: Agapito Associates, Inc.
Grand Junction, CO

3:36 – 5:36 pm Session IV
Chairmen: Mike Karmis
VPI & SU
Blacksburg, VA


7. **Identifying Moisture Sensitive Roof Rocks in Coal Mines**, G. Molinda and D. Oyler, NIOSH-Pittsburgh Research Laboratory, Pittsburgh, PA, and H. Gurgenli, West Virginia University, Morgantown, WV. *(p. 57-64)*

2. **Detailed Stress Analysis of Longwall Panels**, K. Morsy, Suez Canal University, Suez, Egypt and S. Peng, West Virginia University, Morgantown, WV. *(p. 18-33)*

6:00 – 9:30 pm Banquet and Reception

Speaker: Dr. Lew Wade
Senior Science Advisor
NIOSH
Washington, DC

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  Huntington, WV
- **Minova USA, Inc.**
  Georgetown, KY

Session V: Poster
Chairman: Keith Heasley
West Virginia University
Morgantown, WV

5. **Sublevel Caving Mining Method for Extra-Thick Coal Seams**, H. Nan and Y. Zhou, Henan Polytechnic University, Jiaozuo, Henan, China. *(p. 47-50)*

8. **Geomechanical and Weathering Properties of Weak Roof Shaies in Coal Mines**, H. Gurgenli and S. Peng, West Virginia University, Morgantown, WV. *(p. 65-73)*
9. Effect of Faults on the Movement of Roof Strata in Gateroads, P. Gou and Y. Hu, Henan Polytechnic University, Jiaozuo, Henan, China. (p. 74-77)


18. BHP Billiton Underground Ground Control Fatal Risk Control Protocol – Development and Application, D. Payne, BHP Billiton, Melbourne, Victoria, Australia. (p. 138-141)

22. Correlation of Acoustic Emission (A.E.) with Physical and Mechanical Properties of Different Types of Rock and Coal Specimens, B. Mishra and A. Khair, West Virginia University, Morgantown, WV. (p. 165-170)

23. Application of Electrohydrodynamic Method and High-Pressure Water Jets as Non-Blasting Alternative of Rock Breaking and Splitting in Open Pits, K. Kotwica and J. Reś University of Mining and Metallurgy, Krakow, Poland. (p. 171-176)


41. Multiple Seam Mining Interactions – A Case Study, K. Morsy and A. Yassien, Suez Canal University, Suez, Egypt and S. Peng, West Virginia University, Morgantown, WV. (p. 308-314)

43. Multiple-Seam Inter-Burden Stress Distribution Using Strip-Pillar Mining Method, J. He and K. Deng, China University of Mining & Technology, Xuzhou, Jiangsu, China. (p. 321-324)

48. Relationship between the Width of Strip Pillar Yield Zone and Recovery Ratio, W.B. Guo, Henan Polytechnic University, Jiaozuo Henan, China, K.
60. **Physical Simulation of Overburden Movement and Stability of Aquiclude in Shallow Seam Mining**, Q. Huang, Xi’an University of Science & Technology, Xi’an, Shaan’xi, China. (p. 439-443)

61. **Overburden Subsidence Characteristics When Mining in Weak Rocks and Subject to Special Mining Conditions**, W. Zhang, W. Guo, J. Cheng, Y. Yang, and C. An, Shandong University of Science & Technology, Qingdao, Shandong, China and C. Yang, Tianranjiao Mine, Zaozhuang, Shandong, China. (p. 444-447)


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**August 2, 2006 (Wednesday)**

7:30- 8:30 am  **Author’s Coffee**

8:00 – 10:00 am  **Session VI**  
Chairmen: Al Campoli  
Minova USA, Inc.  
Georgetown, KY  

David Bigby  
Rock Mechanics Technology  
Burton-on Trent, UK

3. **Deriving Input Parameters for Numerical Modeling of Fully Resin Grouted Rock Bolts**, M. Alber, Ruhr University, Bochum, Germany. (p. 34-39)


10:00 – 10:30 am  **Break**
20. Load Capacity and Stiffness Characteristics of Screen Materials Used for Surface Control in Underground Coal Mines, D. Dolinar, NIOSH-Pittsburgh Research Laboratory, Pittsburgh, PA. (p. 152-158)


56. Load Capacity and Bond Behavior of Resin Grouted Rock Bolts, N. Slatalla and M. Alber, Ruhr-University, Bochum, Germany. (p. 412-417)

27. Why Uniaxial Compressive Strength and Young’s Modulus Are Potentially Poor Indicators of Roadway Roof Stability – Except in the Tailgate, R. Frith, University of New South Wales, Sydney, Australia and M. Colwell, Colwell Geotechnical Services, Queensland, Australia. (p. 198-207)


33. **Towards a Real Time Response to Changing Strata Conditions on a Longwall**, R. Trueman and G. Lyman, University of Queensland, Brisbane, Qld., Australia, M. Callan and B. Robertson, Anglo Coal Pty. Ltd., Brisbane, Qld., Australia, and A. Cocker, University of Queensland, Brisbane, Qld., Australia. *(p. 245-251)*

9:36 – 10:05 am Break
Sponsored by: Excel Mining Systems
Bowerston, OH

10:05 – 11:41 am Session IX
Chairmen: Mike Jenkins
NIOSH- Spokane
Spokane, WA

David Newman
Appalachian Mining & Engineering
Lexington, KY


11:30 am – 2:00 pm Organizing Committee Lunch Meeting

11:41 am – 12:45 pm Lunch
Sponsored by: J.H. Fletcher & Co.
Huntington, WV

12:45 – 2:45 pm Session X
Chairman: Jinsheng Chen
Asian-American Coal
Taiyuan, Shanxi, China
John Hoelle
Anglo Coal Australia
Brisbane, Australia


42. **Multiple Seam Mining Feasibility in the Illinois Basin (USA): LaModel Stress Analysis Programs**, R. Hardy and K. Heasley, West Virginia University, Morgantown, WV and P. Padgett Meighen, Foundation Coal Company, Keensburg, IL. *(p. 315-320)*


2:45 – 3:15 pm Break
Sponsored by: Excel Mining Systems
Bowerston, OH

3:15 – 5:15 pm Session XI
Chairmen: Frank Kendorski
Agapito Associates, Inc.
Lombard, IL
53. **Characterization of Internal Insertion Pressure During Installation of Fully Grouted Bolts**, L. Giraldo, S. Cotten, and J. Farrand, Raytheon UTD Inc., Springfield, VA. *p. 395-399*

50. **Investigation of the Stability of a Pillar Retreat Section at the Fletcher Mine**, D. Tesarik, B. Seymour, L. Martin, and M. Jones, NIOSH-Spokane Research Laboratory, Spokane, WA and T. Yanske, the Doe Run Company, Viburnum, MO. *p. 374-381*

34. **Classification of Chock Shields Behaviour in an Indian Longwall Mine in Real Time**, S. Tadisetty and R. Gupta, National Institute of Rock Mechanics, Karnataka, India and K. Matsui and H. Shimada, Kyushu University, Fukuoka, Japan. *p. 252-255*


59. **Quality Assurance in the Processing of Mining-Induced Subsidences and Research Work into Mining Subsidence Engineering in the German Hard Coal Industry**, P. Fischer and M. Hegemann, Deutsche Steinkohle AG, Herne, Germany, A. Preusse and H. Kateloe, RWTH Aachen University, Aachen, Germany, and A. Sroka, Freiberg University of Mining & Technology, Freiberg, Germany. *p. 431-438*

Contribution from the following company/agency for publication of the Conference Proceedings is greatly appreciated:

**CONSOL Energy, Inc. – South Park, PA**

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