



## PCMIA/SME Pittsburgh Section Annual Joint Meeting 2015

### Day 1

The Opening Session and Remarks were by Heather Trexler, TetraTech, and Chairperson, SME Pittsburgh Session. The Keynote Session: ***SME 2005 Strategic Initiatives Progress Report*** was made by J. Steven Gardener, President/CEO, ECSI, LLC, and 2015 SME President.

Technical Session I: Engineering Projects I followed with Session Chair, Edward F. Zeglen, Jr. The first paper was ***3D Laser Scanning Revolutionizes Project Designing*** by Thomas J. Porterfield, President, Farnham & Pfile Engineering, Inc. This was followed by ***Describing Underground Coal Mine Ventilation Pressure Distribution Using a Small Scale Physical Model*** by Bryan Boskovich, Mining Engineer-Ventilation, Alpha Natural Resources. The third paper in the session was ***Venturi Rock Dusting*** by William Hyatt, Foreman Trainee, Alpha Natural Resources.

Technical Session II: Environmental/Regulatory Concerns followed with Session Chair Nicole Iannacchione, Masters Candidate, Indiana University of Pennsylvania. The first presentation was ***Carbon Capture and Storage Technologies for Enhanced Coalbed Methane Production*** by Ellen Gilliland, Senior Geophysics, Research Associate, Virginia Center for Coal and Energy Research. The second paper in the session was ***The Role of Barriers Beneath Streambeds in Preventing Unplanned Discharges from Northern Appalachian Coal Mine Pools*** by Dr. Anthony Iannacchione, Associate Professor and Director of the Mining Engineering Program, University of Pittsburgh.

The second paper in the Session was ***The Role of Barriers Beneath Streambeds in Preventing Unplanned Discharges From Northern Appalachian Coal Mine Pools*** by Dr. Anthony Iannacchione, Associate Professor of the Mining Engineering Program, University of Pittsburgh. The third paper in the Session was ***Applying Web-Based Technology for Cost Efficient Environmental Reporting: A Case Study for Water Sampling and Mining Facilities*** by Mark McGuire, GIS Manager, Civil and Engineering Consultants, Inc.

The PCMIA Student Luncheon and Awards Presentation then took place with a Keynote Address by Brett A. Ashley, PE, Mining Engineer, Rosebud Mining Company. The PCMIA Awards Presentations were then made by Heather N. Dougherty, PE, NIOSH, and PCMIA President.

The Stephen McCann Educational Excellence Award was won by Kray Luxbacher, Ph.D., PE. The PCMIA Donald S. Kingery Memorial Award was presented to Joseph A. Scaffoni. The Donald S. Kingery Student Grant Award was presented to Emily Invergo. The SME/PCMIA Student Design Award was won by Rebecca Stas, Jeffrey Stevens, Michael Sustar, of West Virginia University.

After lunch, Technical Session III: Mine Rescue took place with Session Chair Michael J. Brnich. The first presentation was ***Mine Rescue in Virtual Training Environments*** by Dr. Launa Mallett, Sociologist, NIOSH/OSMHR. The second presentation was ***The Application of a Robotics Platform to Identify Hazards in the Underground Environment*** by Dimitrios Apostolopoulos, Senior Systems Scientist, Carnegie Mellon University. The third presentation in the Session was ***Integrated Surface Mining Safety System*** by Vinod Kulathumani, Associate Professor, West Virginia University.

Day 1 of the meeting ended with the Career Fair and PCMIA Reception.



Steve Gardener



Tom Porterfield



Brian Boskovich



William Hyatt



Nicole Iannacchione



Ellen Gilliland



Mark McGuire



Brett Ashley



Emily Invergo



Michael Brnich



Dr. Laura Mallett



Dr. Dimi Apostolopoulos



Dr. Vinod Kulathumani



Heather Dougherty and Joe Shaffoni



Dan Alexander, Rebecca Stas, Jeffrey Stevans, and Heather Dougherty