

**Appalachian Region Technology Transfer**  
**Hydrologic Issues Workshop**  
**Sponsored by Office of Surface Mining**

**AGENDA**

**August 3-5, 2004**

**August 3, 2004**

**Welcome**

Gregory E. Conrad, Executive Director, Interstate Mining Compact Commission, Chantilly, VA

**Session 1: Underground Mine Pools**  
**Jack Felbinger - Session Moderator**

[Quantitative and Qualitative Aspects of Underground Mine Pools](#)

Jay Hawkins, Hydrologist, Office of Surface Mining, ARCC, Pittsburgh, PA

[Dewatering of a Saline Mine Pool in Northeast Tennessee](#)

Rob Liddle, Hydrologist, Office of Surface Mining, Knoxville Field Office, Knoxville, TN

[Predictive Techniques for Estimating Mine Pools](#)

James Stiles, Research Environmental Engineer, WVU, West Virginia Water Research Institute, Morgantown, WV

[Numeric Modeling of a Large Mined Synclinal Coal Basin, Westmoreland Co, PA](#)

Bill Winters, Hydrologist, Office of Surface Mining, ARCC, Pittsburgh, PA

[Use of Mine Pools as a Resource](#)

Joe Schueck, Professional Geologist, Pennsylvania Department of Environmental Protection, Chief, Division of Acid Mine Drainage Abatement, Harrisburg, PA

[Characterization of Water Quality of Mine Pools for Use as Municipal Water Supplies](#)

Dennis Cumbie, Hydrogeologist, Water Resources Section, Kentucky Geological Survey, Lexington, KY

[The Byesville Mine Pool: Opportunity and Calamity](#)

Mary Ann Borch, Geologist, Ohio Division of Mineral Resources Management, Jackson, Ohio

**Session 2: Stream Impacts from Underground Mining**  
**Pam Carew - Session Moderator**

[Underground Mine Subsidence Impacts on Stream Discharge in the Northern Appalachians](#)

Bob Evans, Hydrologist, Office of Surface Mining, ARCC, Pittsburgh, PA

[Spruce-Laurel Stream Dewatering](#)

Tom Galya, Hydrologist, Office of Surface Mining, Charleston, WV

[Stream Diminution, Kentucky Case Study](#)

Jack Felbinger, Hydrologist, Office of Surface Mining, ARCC, Pittsburgh, PA

**August 4, 2004**

**Session 2: Stream Impacts from Underground Mining (continued)**

**Pam Carew - Session Moderator**

[Effects of Longwall Mining on Hydrogeology, Cumberland Plateaus, Eastern KY Coal Field](#)

Jim Dinger, Head of the Water Resources Section, Kentucky Geological Survey, Lexington, KY

[CONSOL's Program To Address Longwall Undermining of Streams](#)

Ken Johnson, Senior Hydrologist, Water Resources Group, Consol Energy, Inc., Pittsburgh, PA

[Stream Loss Considerations in the Southwest Virginia Coalfields](#)

Tony Scales, Reclamation Geologist, Virginia Department of Mines, Minerals and Energy, Big Stone Gap, VA

***Stream De-watering Panel Discussion-Questions***

Panel Consists of Technical Representative from Each State

**Session 3: Water Replacement**

**Session Chair - Duane Matt**

[Pennsylvania's Water Replacement Program](#)

Scott Jones, Licensed Professional Geologist, Pennsylvania Department of Environmental Protection, Greensburg, PA

[Streamflow Replacement: A Case Study in Southwestern Pennsylvania](#)

Bert Waite, Senior Geologist & Director of Environmental Services, Moody and Associates, Inc., Meadville, PA

[Impacts and Recovery of Aquifers Affected by Longwall Mining](#)

Colin Booth, Professor, Department of Geology and Environmental Geosciences, Northern Illinois University, DeKalb, IL

[Water Replacement in Ohio](#)

Cheryl Socotch, Geologist, Ohio Division of Mineral Resources Management, New Philadelphia, OH

[Specific Incapacity: A Cautionary Tale for Using Specific Capacity to Evaluate Mining Impacts](#)

Brent Means, Hydrologist, Office of Surface Mining, Harrisburg, PA

***Water Replacement Panel Discussion/Questions***

Panel Consists of Technical Representative from Each State

**August 5, 2004**

**Session 4: Cumulative Hydrologic Impact Assessment (CHIAs)**

**Session Chair - Lynn Haynes**

[Geology and Hydrology CHIAs Tools At The WVDEP](#)

Nick Schaer, Program Development Geologist, West Virginia Department of Environmental Protection, Nitro, WV

WCMS: [The West Virginia Model, Part 1](#), and [WVa Model Part 2](#)

Jerry Fletcher, Chair & Professor, Agriculture & Resources Economics, and Robert Eli, Associate Professor, Civil & Environmental Engineering, WVU, Morgantown, WV

[Clear Fork CHIA](#)

Brent Means, Hydrologist, Office of Surface Mining, Harrisburg, PA

[Integration of GIS and WMS for Predicting Flooding Potential & Floodplain Alteration in Clear Fork Valley, TN](#)

Rick Mann, Hydrologist, Office of Surface Mining, Knoxville Field Office, Knoxville, TN

***CHIA Panel Discussion/Questions***

Panel Consists of Technical Representative from Each State

***Closing Remarks and Exit Survey***

Vann Weaver, Chief, Ecological Services & Technology Transfer Branch, Technical Support Division, Office of Surface Mining, Pittsburgh, PA