TECHNICAL CONCURRENT SESSIONS – Monday, June 1

TIME	Revegetation – Plant Materials	Revegetation – Riparian Wetland	Case Histories
1:30	Selection and Release of Indigenous Plant Materials for the Anaconda Smelter Superfund Site Feature – Opportunity Germplasm Nevada Bluegrass *E. Graham*	Principals of Successful Riparian or Wetland Remediation/Restoration *P. Hansen*	Comparison of Coal Mine Reclamation Under the Surface Mining Control and Reclamation Act of 1977 and Oil and Gas Sites in Wyoming *B. Schladweiler*
2:00	Comparative Evaluation of Grasses, Forbs, and Seed Mixtures from "Local" vs. "Non-local" Origins at (Stucky Ridge) Anaconda, MT *R. Hybner*	Native Plant Material Selection for Water Treatment Wetlands *C. Taylor*	Zortman-Landusky: Challenges in a Decade of Closure *D. Williams*
2:30	Rapid Propagation of the Sensitive Species *Physiria Didymocarpa* Var. Lanata for Reclamation *S. King*	Big Hanaford Creek Floodplain and Wetland Rehabilitation Mitigation Project *M. Matthies*	Solving? Mine Drainage Problems at Soudan State Park – The Saga Continues *P. Eger*
3:00	COFFEE BREAK IN EXHIBIT HALL		
3:30	Conserving an S1/G5 Mustard at a Southeast Montana Coal Mine Through Nursery Propagation and Transplanting *G. Johnson*	Revegetation of Reed Canarygrass Infested Riparian Areas: Performance of Pre-planted Coir After 3-6 Years *P. Hook*	Assessment of Environmental Impacts Near Abandoned Uranium Mines Within the Cave Hills and Slim Buttes Complexes, Custer National Forest, South Dakota *J. Stone*
4:00	Using Plant Tissue Culture to Develop Plants With Acid Soil, Heavy Metal Tolerance (AHMT), Potentially Useful for Hard-Rock Mine Land Reclamation *S. King*	Newsome Creek: Revegetating a Floodplain Impacted by Historic Dredge Mining *S. Wall*	A Case History: Limestone Quarry Reclamation Using Fluvial Geomorphic Design Techniques *M. Robson*
4:30	ASMR Technical Division Meetings	ASMR Technical Division Meetings	ASMR Technical Division Meetings

TECHNICAL CONCURRENT SESSIONS – Tuesday, June 2

TIME	Wyoming Reclamation & Restoration Center	Industrial Innovations	Mine Influenced Waters
8:00	Activities of the Wyoming Reclamation and Restoration Center *S. Williams*	Near-Zero-Impact Land Disturbance Techniques for Natural Gas Production *M. Mitchem*	Passive Treatment and Monitoring at the Standard Mine Superfund Site, Crested Butte, CO *D. Reisman*
8:30	Ecosystem Recovery on Reclaimed Surface Minelands *P. Stahl*	Multiple Site Evaluation of RCTS Treatment, Emergency Mobilization, Sludge Characterization and Lime Utilization *T. Tsukamoto*	A Periodic Table of Passive Treatment for Mining Influenced Waters *J. Gusek*
9:00	Effects of Natural Gas Well Development, Reclamation Activities, and Controlled Livestock Impact on Topsoil Properties *J. Norton*	Use of Tailing Ponds as Solar Photovoltaic Farms *M. Momayez*	Overcoming the Obstacles of Operating a Biochemical Reactor and Aerobic Polishing Cell Year Round in Central Montana *E. Blumenstein*
9:30	Native Plant Restablishment: What is Integrated Reclamation? *A. Hild*	Geotechnical Considerations for Solar Panel Installation on Mine Tailings *A. Srikant*	Rapid Alkalinity Generation and Metal Removal from Mine Impacted Water Using Crab-Shell-Chitin Under Abiotic Conditions *M. Robinson-Lora*
10:00	COFFEE BREAK IN EXHIBIT HALL		
10:30	Impacts of Oil and Natural Gas on Prairie Grouse: Current Knowledge and Research Needs *J. Beck*	Clean Coal Technology for Montana *T. Rossetto*	Rotating Cylinder Treatment System Demonstration *P. Smart*
11:00	Coalbed Methane (CBM): Outfalls, and Disposal Ponds *K. Reddy*	AM-Colonized Plant Materials for Mined-Land Reclamation *T. Meikle*	Performance of an Ecologically-Engineered Passive Acid Mine Drainage and Municipal Wastewater Co-Treatment System *W. Strosnider*
11:30	Economic Issues and Policies that Affect Reclamation Decision Making *M. Andersen*	Land Surface and Water Quality Monitoring Results for Constructed GeoFluv Landforms *N. Bugosh*	
12:00	LUNCH BREAK		

TECHNICAL CONCURRENT SESSIONS – Tuesday, June 2 (Continued)

TIME	Revegetation – Woody Species	Evaluating Revegetation Success	Mine Influenced Waters
1:30	Measuring Success of the Forestry Reclamation Approach in Appalachia *P. Angel*	Development of a Qualitative Reclamation Assessment Handbook for Abandoned Hardrock Mine Lands *P. Blicker*	Reduction of Fecal Indicator Bacteria Counts in an Ecologically-Engineered Passive Acid Mine Drainage and Municipal Wastewater Co-Treatment System *B. Winfrey*
2:00	Forest Land Capability of Reclaimed Mined Land for Seven Appalachian Hardwood Species *J. Burger*	Land Reclamation Performance Evaluation Process and Standards Used at the Anaconda Smelter Site, Montana *R. Rennick*	Evaluation of Locally Available Organic Substrates for Vertical Flow Passive Treatment Cells in Potosi, Bolivia *B. Santamaria*
2:30	Effects of Seedling Size and Ground Cover on the First-Year Survival of Planted Pine and Hardwoods Over an Extreme Drought *J. Franklin*	Montana's Framework for Establishing Technical Vegetation Standards *S. Downey*	Acid Mine Drainage Impacts on Irrigation Water Resources and Agricultural Soils in Potosi, Bolivia *A. Garrido*
3:00	First Year Response of Mixed Hardwoods and Improved American Chestnuts to Compaction and Hydroseed Treatments on Reclaimed Mine Land *C. Fields-Johnson*	Using Reference Areas vs. Technical Standards in Assessing Revegetation Success: A Quantitative Case Study *C. Vik*	Response and Recovery of Sulfate-Reducing Biochemical Reactors from Aerobic Stress Events *E. Perrault*
3:30	Survival and Growth of Five Chestnut Seed Types on Mountaintop Surface Mines in West Virginia *J. Skousen*	Climatic Adjustments on Reclaimed Cropland Yields for Final Bond Release *S. Schroeder*	Evaluation of First 1.5 Years of Operation of a Passive Treatment System in SE Oklahoma *J. LaBar*
4:00	Effect of Vegetation Cover on Loblolly Pine Survival on Reclaimed Mine Soil *D. Lang*	A Method for Assessing Vegetation Adequacy for Phase II Bond Release in Montana *S. Downey*	Challenges in Design, Construction and Evaluation of a Large Multi-Cell Passive Treatment System for Ferruginous Lead-Zinc Mine Water *R. Nairn*
4:30	POSTER SESSION IN EXHIBIT HALL AREA – with light refreshments and libations		

POSTER SESSION PRESENTATIONS

Development of Rhizobiaceae and Fabaceae Symbioses for Enhancing Biological Inputs of Nitrogen in Reclamation of Disturbed Lands in Wyoming – *N. Bird*

Salt Redistribution of Reclaimed Spoil after two Years of Irrigation at Navaho Mine, New Mexiico – *T. Brown*

Biogeochemical Characterization of Agricultural Soils Polluted by Industrial Wastewaters: Implications for Bioremediation – *S. Chaerun*

Systematic Soil Treatment Design for Non-revegetating Sites – *V. Claassen*

Revegetation of Mining Gold Areas With Presence of Acid Mine Drainage and Arsenic Contamination – *I. de Assis*

Prioritizing Abandoned Uranium Mine Land Reclamation Using a GIS Model – *L. DeLay*

Influence of Differing Mine Site Characteristics and Planting Treatments on Bud Set Timing of *Castanea dentate* – *J. Franklin*

Development of Soil Microbial Properties in Post Mining Sites Along Continentality Gradient in USA - Preliminarily Report – *J. Frouz*

The Role of Dissolved Organic Carbon in Acetate Biostimulated Uranium Attenuation – *J. Hartmann*

Microbial and Substrate Characterization of Four BLM Biochemical Reactor Systems in the Coeud D'Alene Idaho Area – *R. Hernández*

Site Specific Reclamation: Reclamation Prescriptions Individualize for Successful Results – *K. House*

Landscape Restoration Regionalization for Resource-Exhausted Coal Mine Areas of MTG – *Z. Hu*

Pilot-scale Tests of Oxidation and Neutralization for Mine Water: Precipitation Aspect – *M. Jang*

Rapid Removal of Fine Particles in Mine Water by Use of Coagulation and Flocculation Process - *M. Jang*

Switchgrass Production Potential on Reclaimed Surface Mines in West Virginia – *T. Keene*

Stabilization of Arsenic in Mine Tailings with Nano-sized Zero Valent Iron and Magnetite - *B. Lee*

Acid Mine Drainage Prevention using Biological Source Treatment: Coal and Hard Rock Experiments – *J. Morris*

Chitin as a Fractional Amendment to Compost to Enhance the Efficiency of MIW Treatment: Longevity Tests in Continuous Flow Columns – *C. Newcombe*

Application of a Saturated-Unsaturated Groundwater Flow Model to Simulating the Probable Hydrologic Consequences of Mining at the Navajo Mine Extension Project, New Mexico – *A. O'Hare*

Comparison of A Neutron Probe with A PR-2 Soil Moisture Meter – *M. O'Neill*

Use of High Resolution Satellite Imagery and Aerial Photography to Classify Post-Mining Land Use and Qualify Reforestation Change in Southwestern Virginia – *D. Osborne*

Characterization of Sludge in SAPS System – *H. Park*

Zinc Increased Rooting by 280% in Transplants – *J. Paternoster*

Evaluation of Mine Acid Drainage Treatment Using *Artemia* sp. and *Allium cepa* L. Bioindicators of Toxicity and Genotoxicity – *C. Pich*

Water Quality and the Fate and Transport of Arsenic in a Coalbed Natural Gas Produced Water Impoundment – *J. Sowder*

Evaluation of Various Ion Exchange Resins for Determining Uranium Groundwater Flux – *V. Stucker*

The Application of 3S Techniques to the Techniques to the Reclamation of Chinese Coal Refuse Disposal Pile – *S. Tang*

Applying RS and GIS to the Monitoring of Soil Erosion in Deep Coal Mines – *S. Tang*

Influence of Topsoil Depth on Vegetation Establishment Following Mine Land Reclamation – *J. Voss*

Five Years of Plant Community Establishment on Interim Reclamation on Molybdenum Tailings – *J. Voss*

In-Situ Uranium Mining Well-Field Design Considerations – *S. Way*

CBM Water Quality Trends in the Powder River Basin, Wyoming – *A. Whitman*

Developing Adaptive Biological Mitigation and Monitoring Plans that Benefit Sensitive Species and Facilitate Mining Operations on Tribal Lands – *J. Zahratka*

Toxicity and Genotoxicity Evaluation of Mine Acid Drainage Treatment Using *Artemia* sp. and *Geophagus brasiliensis* (Quoy & Gaimard, 1824) as Bioindicators – *A. Zocche*

TECHNICAL CONCURRENT SESSIONS – Wednesday, June 3

TIME	Revegetation – Woody Species	Water Management	Revegetation – General
8:30	Root Development in Acid Mine Rock at Questa Mine in New Mexico *B. Buchanan*	Assessment and Treatment Options at the Young Dong Coal Mine Site, South Korea *J. Ranville*	A Tool for Selecting Appropriate Vegetation for Restoring Disturbed Sites in Eastern Montana and Adjacent Areas *P. Hansen*
9:00	The Use of Landscape Fabric and Supplemental Irrigation to Enhance Survival and Growth of Woody Perennials Planted on Reclaimed Surface Mine Lands *R. Musselman*	Evaluating the Potential Impact of Surface Mining on Water Quality and Macroinvertebrate Communities in a Native Brook Char Fishery *F. Brenner*	Revegetating Topsoil, Scoria, and Spoil in Montana *R. Prodgers*
9:30	Effects of Sub-Irrigation Tubes and Cover Type on Woody Plant Establishment *J. Scianna*	Performance of a Full-Scale Horizontal-Flow Wetland for Zinc *M. Fitch*	Annual Bromes as a Symptom Rather than a Disease: A Case Study from the Big Sky Mine, Southeastern Montana *D. Buckner*
10:00	COFFEE BREAK IN EXHIBIT HALL		
10:30	Fifth Year Transplant Survival on Constructed Test Plots, Questa Mine, Quest, New Mexico *J. Sanders*	The Effect of a Soil Cover on Dump Respiration and Seepage Quantity and Quality *M. Phillip*	Effects of Reclamation Techniques on Grass Establishment *S. Gundlach*
11:00	Short- and Long-Term Transplant Performance on Mine Rock Material, Questa Mine, New Mexico *B. Young*	An Analysis of Steel Slag and Its Use in Acid Mine Drainage (AMD) Treatment *B. Mack*	Revegetation Monitoring at Block P Mill and Tailings Site, Montana *G. Massey*
11:30	LUNCH BREAK		
	Western Regional Technology Transfer	**Soils and Overburden**	**Revegetation - General**
1:00	Each OSM region has a regional technology transfer team (Western Region that identifies, advances and develops technical solutions. The first part of this Session is open to all conference participants	Topsoil: What is it and Who Cares? *R. Darmody*	Revegetation Trials in the Pinedale Anticline Project Area *S. Winslow*
1:30		Soil Respread Depths: Do We Know Enough to Implement Change? *S. Flath*	Nothing But Borrow – Revegetation Without Topsoil *R. Prodgers*
2:00		The Potential for Carbon Sequestration on Degraded Lands Within North Central Montana *J. Watts*	Mining Reclamation for Wildlife: A Continuing Challenge *R. Kelley*
2:30	COFFEE BREAK IN EXHIBIT HALL		
3:00	WRTT continued.	Redevelopment of Soil Carbon Pools on Reclaimed Surface Mine Lands *P. Stahl*	Sharp-Tailed Grouse Return to Mined Land *R. Karo*
3:30		Microbial Biomass of Reclaimed Soils Following Coal Mining in Virginia *H. Clayton*	Ecological Sustainability of a Mining Area in the Western Region of China *Y. Hao*
4:30	EVENING SOCIAL (Pompey's Pillar) PARTICIPANTS LOAD BUSSES AT 4:30 ON THE WEST SIDE OF HOTEL		

TECHNICAL CONCURRENT SESSIONS –Thursday, June 4

TIME	Revegetation on Acid Metalliferous Wastes	Soils & Overburden	Technological Tools
8:30	Mobility and Bioavailability of Arsenic, Lead, Copper, and Zinc at the Avoca Mine Site, County Wicklow, Ireland *K. Whiting*	A Model for Evaluating and Comparing Soil and Site Factors Affecting Productivity of Disturbed and Undisturbed Similar and Dissimilar Soils *R. Sinclair*	Assessing the Use of High Resolution Satellite Imagery to Inventory Abandoned Mine Land Features in Virginia *D. Osborne*
9:00	Acid Neutralizing Capacity and Leachate Results for Igneous Rocks, with Associated Carbon Contents of Derived Soils, Animas River AML Site, Silverton, CO *D. Yager*	Land Application of Coalbed Methane Produced Water: Changes in Soil Chemistry Through Time *A. Bembenek*	Field GPS vs. Remote Sensing Workflows for Land Form Review: Selecting the Right Technology for the Job *R. Calhoun*
9:30	Soil Treatment of Metal Contaminated Irrigated Meadows Adjacent to the Arkansas River Near Leadville, CO *S. Jennings*	The Role of Measuring Unsaturated Moisture Conditions Within Mine Waste Storage Facilities for the Development of Site-Specific Cover System Design Criteria *M. O'Kane*	Use of ESRI© ArcPad® Software for Verifying Soil Respread Thickness on Reclaimed Areas *B. Gunnerson*
10:00	COFFEE BREAK IN EXHIBIT HALL		
10:30	Direct Revegetation of Acidic Mine Tailings at the Idarado Mine Site in Southwest CO *E. Redente*	Influence of Spoil EC and SAR on Vegetation Establishment and Species Composition *S. Perkins*	Mapping Vegetation Change on a Reclaimed Surface Mine Using Quickbird *M. Shank*
11:00	Potential of Three Legume Species for Phytoremediation of Arsenic-Contaminated Soils *L. Dias*	Chemical and Mineralogical Characterization of Agricultural Soils Inundated by the 26 December 2004 Tsunami During Intrinsic Bioremediation in Banda Aceh, Sumatra Island, Indonesia *S. Chaerun*	Inspection Assistance Using Remote Sensing Imagery *C. Bailey*
11:30	Metal Levels in Vegetation Growing on In Situ Treated Acid Metalliferous Mine Wastes in Montana *D. Neuman*	Physical Protection of Organic Matter in Reclaimed Coal Mine Soils of SW Virginia *A. Wick*	Recent Developments in Close Range Photogrammetry for Mining and Reclamation *M. Dunn*
12:00	ASMR AWARDS BANQUET IN BALLROOM		