

MONDAY, JUNE 13, TECHNICAL SESSIONS			
Time	Treatment Wastes SESSION 1A Harborside Room 2003 Moderator - TBA	Vegetation: Developing Techniques SESSION 1B Harborside Room 2003 Moderator - TBA	Soils and Spoils SESSION 1C Harborside Room 2003 Moderator - TBA
2:00 p.m. - 2:30 p.m.	Assessing Fate and Potential Reuse of Hard Rock Mine Drainage Passive Treatment Residual Solids Justine McCann*	Reducing Seed Dormancy in Southern-Adapted Native Forage Grasses Brian Baldwin	Forest Soil Response Three-Years After Aerial Liming Application in West Virginia Loren Gormley*
2:30 p.m. - 3:00 p.m.	Determination and Prediction of Rare Earth Element Geochemical Associations in Acid Mine Drainage Treatment Wastes Robert Hedin	Development of Locally Adapted Native Germplasms for Commercial Use Anthony Falk	Effect of Forest Reclamation Approach Practices on Soil Water Chemistry Amir Hass
3:00 p.m. - 3:30 p.m.	Using "Big Science" to Evaluate Metal Removal Brandy Stewart	Seed-Spec: a Native Seed Blend Development Tool Rob Cook	Scram Tailings Mineland Reclamation 3-Year Case Study and Recommendations Allyz Kramer
3:30 P.M. - 4:00 P.M. - BREAK			

MONDAY, JUNE 13, TECHNICAL SESSIONS - 2nd Group			
Time	Reclamation Regulations SESSION 2A Harborside Room 2003 Moderator - TBA	Vegetation: Developing Techniques (Continued) SESSION 2B Harborside Room 2003 Moderator - TBA	Soils and Spoils (Continued) SESSION 2C Harborside Room 2003 Moderator - TBA
4:00 p.m. - 4:30 p.m.	Enforcement of Surface Coal Mine Rules and Regulations, Case Study (Wyoming, USA) Anna Waitkus	Discovery of Australian Native Hyperaccumulator Plants for Developing Phytoremediation Applications Farida Abubakari*	Short And Long-Term Groundwater Impacts Associated with the Reclamation of Acid Water Seeping Historical Tailings in the Central and West Rand Basins, South Africa Robel Gebrekristos
4:30 p.m. - 5:00 p.m.	Development of International (ISO) Standards for Mine Reclamation Lee Daniels	Bamboo as a Potential Option for Land Reclamation and Restoration Apsana Kafle*	Field Testing of Geomorphic Landform Design Features in Central Appalachia Iuri Lira Santos*
5:00 p.m. - 5:30 p.m.	An Argument for Long-Term Care and Maintenance at Reclaimed Mine Sites Peter Werner	Planning, Implementation, and Analysis of Success in Revegetating Lignite Mines in Texas Jeremiah McKinney	Urban Reforestation as Reclamation: Exploring Effects of Forest Development on Plant Community Structure, Water Quality, and Soil Kenton Sena

TUESDAY, JUNE 14, TECHNICAL SESSIONS			
Time	Watershed Characterization and Restoration SESSION 3A Harborside Room 2003 Moderator - TBA	Partners in Reclamation SESSION 3B Harborside Room 2003 Moderator - TBA	Vegetation: Diverse Perspectives SESSION 3C Harborside Room 2003 Moderator - TBA
8:30 a.m. - 9:00 a.m.	Analyzing Floodplain Reconnection as a Restoration Method Natalie Kruse Daniels	Teaching Young and Old Pups New Tricks Terry Toy	A "Two-Roads Approach" Evaluation of Oil Sands Mine Closure Plans for Traditional Land Uses Christine Daly*
9:00 a.m. - 9:30 a.m.	Effects of the Palmiter Method, Adapted to Protect Infrastructure, on Stream Health Jonathan Viti*	Keeping the Research Relevant Lee Daniels	Indigenous Led Environmental Monitoring, Trends, and Best Practices Across Canada Alexandra Post*
9:30 a.m. - 10:00 a.m.	Evaluating the Water Quantity and Quality of Mine Drainage Discharges in a Hydrologically and Topographically Challenging Location Nick Shepherd*	Industry Applying Multiple Minds at the Mine Sarah Flath	Abundance of Lichens and Mosses on the Restored Landscape in the Nickel-Copper City of Greater Sudbury, Ontario, Canada Peter Beckett
10:00 A.M. - 10:30 A.M. - BREAK			

TUESDAY, JUNE 14, TECHNICAL SESSIONS - 2nd Group

Time	<p align="center">Watershed Characterization and Restoration (Continued)</p> <p align="center">SESSION 4A</p> <p align="center">Harborside Room 2003</p> <p align="center">Moderator - TBA</p>	<p align="center">Partners in Reclamation (Continued)</p> <p align="center">SESSION 4B</p> <p align="center">Harborside Room 2003</p> <p align="center">Moderator - TBA</p>	<p align="center">Reforestation</p> <p align="center">SESSION 4C</p> <p align="center">Harborside Room 2003</p> <p align="center">Moderator - TBA</p>
<p>10:30 a.m. - 11:00 a.m.</p>	<p>Spatial Variations in Trace Metal Concentrations in Stream and Reservoir Sediments Downstream of the Tri-State Mining District, USA</p> <p align="center">Carlton Folz*</p>	<p>Extension Ain't Your Grandpa's Program Anymore</p> <p align="center">Abbey Wick</p>	<p>Forest Restoration on the Exposed Sediments Along the Elwha River: Assessing Riverbank Lupine's (<i>Lupinus rivularis</i>) Influence on Conifer Growth, Vegetation, and Mycorrhizal Fungi</p> <p align="center">Jenise Bauman</p>
<p>11:00 a.m. - 11:30 a.m.</p>	<p>Evaluating Sources, Mass Loadings, and Fate of Total and Dissolved Metals to Prioritize Restoration in a Mining-Impacted Watershed</p> <p align="center">Robert Nairn</p>	<p>Consulting Approaches Considering Multiple Partners</p> <p align="center">Brenda Schladweiler</p>	<p>Bringing Back the Forest: Reforestation Provides Climate Mitigation Opportunities for Mining Regions of the World</p> <p align="center">Christopher Barton</p>
<p>11:30 a.m. - 12:00 p.m.</p>	<p>Water Quality of Reclaimed Mountaintop Removal Valley Fill Mine Site 15 Years After Final Reclamation - an Unexpected Remedy</p> <p align="center">Amir Hass</p>	<p>Partnerships in Reclamation</p> <p align="center">Abbey Wick</p>	<p>Overcoming Arrested Succession and Invasive Species on Older Reclaimed Surface Mines</p> <p align="center">Jennifer Franklin</p>
<p>12:00 - 1:30 LUNCH</p>			

TUESDAY, JUNE 14, TECHNICAL SESSIONS – 3rd Group			
Time	Reclamation Innovations SESSION 5A Harborside Room 2003 Moderator - TBA	Teaching in Reclamation SESSION 5B Harborside Room 2003 Moderator - TBA	Advancements in Reclamation Technologies SESSION 5C Harborside Room 2003 Moderator - TBA
1:30 p.m. - 2:00 p.m.	Applied Research: Biogeochemical Response of PAG Mine Waste to Bactericides and Vegetation James Gusek	Teaching Reclamation in Honors: Engaging Students with Diverse Majors and Prior Coursework Kenton Sena	Characterizing Subsurface Heterogeneity on Gold Post-Mining Sites Adegbite Adesipo*
2:00 p.m. - 2:30 p.m.	Sorption of Metals from Mining Polluted Water Bodies and Reusability in Land Reclamation Using Hydrochar Benjamin Quardey*	Using Experiential Learning in an Upper-Level Forestry Class to Teach Reclamation Techniques Jennifer Franklin	Peat Mine Restoration, New Monitoring Technologies, and 7 Years of Progress at the Superior Wetland Bank Natalie White
2:30 p.m. - 3:00 p.m.	Evaluation of Peat Sorption Media for Metal Removal from Stormwater from a Mineral Processing Facility Paul Eger	"Reclamation of Disturbed Soils" – A West Virginia University Senior-Level Course Jeff Skousen	Using sUAS for the Development and Validation of Surface Water Quality Models in Optically Deep Mine Waters Brandon Holzbauer-Schweitzer
3:00 P.M. - 3:30 P.M. - BREAK			

TUESDAY, JUNE 14, TECHNICAL SESSIONS – 4th Group			
Time	Reclamation Innovations (Continued) SESSION 6A Harborside Room 2003 Moderator - TBA	Teaching in Reclamation (Continued) SESSION 6B Harborside Room 2003 Moderator - TBA	Advancements in Reclamation Technologies (Continued) SESSION 6C Harborside Room 2003 Moderator - TBA
3:30 p.m. - 4:00 p.m.	Advances in the Electro-Biochemical Reactor Design for Denitrification Ola Opara	Teaching Reclamation Through Applied Curricular and Co-Curricula Experiences Natalie Kruse Daniels	Prioritization of Site Selection for Subsidence Mitigation of Abandoned Mine Lands Using GIS and Attribute Criteria Hierarchy Harry Plendl
4:00 p.m. - 4:30 p.m.	Heavy Metal Recovery Using Manganese-Oxidizing Microbes and Recycled Carpet Fiber Brandy Stewart	Eighteen Years of Natural Infrastructure Research Partnerships Through the Center for Restoration of Ecosystems and Watersheds at the U of Oklahoma Robert Nairn	Implementation of an Enterprise Geographic Information System (GIS) for Abandoned Mine Land Reclamation Project Data Collection and Efficiency of Client Reporting Harry Plendl
4:30 p.m. - 5:00 p.m.	Opportunities for Carbon Sequestration in Mined Materials Joel Bandstra	Translating International Experience to Graduate School Apsana Kafle*	Drone Use Along with Spatially Balanced Sampling and Route Optimization for Rapid Monitoring of Reclaimed Areas Michael Curran
5:00 p.m. - 5:30 p.m.	Case-Study - the Gladden Acid Mine Drainage (AMD) Treatment Facility Project Eric Cavazza	My Experience as a MSC Candidate Studying Reclamation Keana Trudel*	Remote Sensing and Benefits for Abandoned Mine Subsidence Investigation and Mitigation Ike Isaacson

WEDNESDAY, JUNE 15, TECHNICAL SESSIONS			
Time	Passive Treatment: Past, Present, Future SESSION 7A Harborside Room 2003 Moderator - TBA	Better Living Through Design and Construction SESSION 7B Harborside Room 2003 Moderator - TBA	Soil Health: Impact on Vegetation SESSION 7C Harborside Room 2003 Moderator - TBA
8:30 a.m. - 9:00 a.m.	Early Discoveries and Development of Passive Treatment Systems Jeff Skousen	Abandoned Coal Mine Mitigation in High Pressure Artesian Conditions Josh Zimmermann	Beneficial Use of Dredge Sediment for Reclamation of Mining Sites Marsha Patelke
9:00 a.m. - 9:30 a.m.	Mine Drainage Co-Treatment in Municipal Wastewater Sequencing Batch Reactors Charles Spellman*	Design And Construction of Barrier Berms Using Innovative Reclamation Techniques to Benefit Mineland Operational Safety and Community Viewshed Joel Asp	An Examination of Pipeline Site Preparation Methods for Improving Plant Establishment Jarrett Lardy*
9:30 a.m. - 10:00 a.m.	The Use of Solar-Powered Float Mix Aerators to Increase Iron Retention in Topographically Limited Passive Treatment Oxidation Ponds Dayton Dorman*	Techniques and Challenges for Material Stabilization Within Historically Mitigated Underground Abandoned Coal Mines Joel James	Calcium Acetate: An Alternative for Gypsum in Improving Water Flow in Oilfield, Brine Impacted Soils Annalie Peterson*
10:00 A.M. - 10:30 A.M. - BREAK			

WEDNESDAY, JUNE 15, TECHNICAL SESSIONS - 2nd Group			
Time	Passive Treatment: Past, Present, Future (Continued) SESSION 8A Harborside Room 2003 Moderator - TBA	Better Living Through Design and Construction (Continued) SESSION 8B Harborside Room 2003 Moderator - TBA	Soil Health: Impact on Vegetation (Continued) SESSION 8 Harborside Room 2003 Moderator - TBA C
10:30 a.m. - 11:00 a.m.	Passive Removal of Mn from Mine Water by Heterogeneous Mn Oxidation Robert Hedin	Mitigation of Rock Springs No. 9 Mine Below Pipeline Utility Corridor Ryan Reed	Vegetation Response to Surface Soil Undulation Height Gwen Geidel
11:00 a.m. - 11:30 a.m.	Passive Treatment of Manganese Bearing Postmining Discharge Tim Danehy	Converting a Former Mine to a Winter Wonderland Dale Kolstad	Mine Soil Health On 2-32-Year- Old Reclaimed Pasturelands Jeff Skousen
11:30 a.m. - 12:00 p.m.	Treating Extreme Acid Mine Drainage with Passive Techniques Shaun Busler	Alaskan Active Coal Mine Reclamation - Two Bull Ridge Rich Sivils	Superfund Remediation at Tar Creek Summer King
12:00-1:30 P.M. - LUNCH AND PRESENTATION AWARDS			