

Detailed Concurrent Sessions

Monday, April 10, 2017

Plenary Session 1. Salon D & E

8:50-10:30	<p>Welcome: Charlie Miller, Task Force & Louis McDonald, WVU</p> <p>Jeff Skousen, WVU & Task Force Member: History of the WV Mine Drainage Task Force</p> <p>Pete Stahl, UW & President ASMR: The Society for Mining and Reclamation</p> <p>James Burger, VT & ARRI Science Team Member: ARRI History and Purposes</p>	
10:30-11:00	<p>Break MEC/Platinum Foyer</p>	
	Plenary Session 2a. Salon D	Plenary Session 2b. Salon E
11:00-11:30	<p>Legislative Update on Mining, Reclamation and Waer Quality in WV. Jason Bostic, WV Coal Assoc</p>	<p>Why Aren't All Reclamationists Considered Ecological Engineers. Robert Nairn, Univ. of OK.</p>
11:30-12:00	<p>Future Reclamation Needs in a Changing Coal Sector. Paul Ziemkiewicz, WVU</p>	<p>Overview and Update on Passive Treatment Systems. Art Rose, PSU (retired)</p>
12:00-1:30	ASMR Awards Luncheon	Downstairs MEC

Colors designate Topic Areas in Sessions:

Orange - AMD

Blue – Water related

Green – Forestry, Wildlife

Yellow – Reclamation

Tan – Other, Social, Imaging, Economics

Names in Bold are in the student presentation competition

	Social & Economic Factors - Salon C	ARRI, Forestry & Ecology 1 - Salon D	Active Treatment - Salon E	Reclamation Technologies - Salon F
1:30-2:00	Governing Unconventional Legacies: Lessons from the Coalbed Methane Boom in Wyoming. K. Walsh (student)	Upland forest development in a reconstructed watershed after oil sands mining in northern Alberta, Canada. B. Pinno	Practical Outfall Mine Water Treatment Applications– Challenges and Solutions. B. Riley	Woods-run Chips as a Filter Sock Matrix. S. Grushecky
2:00-2:30	Bond release verification requirements for successful reclamation at Wyoming surface coal mines. A.K. Waitkus	Reclamation Experiments on the Allegheny Front: The Push for Bio-Energy, Habitat, and Timber. Bart Caterino (student)	A Geochemical Kinetics Module for AMD Treat to Estimate the Effects of Aeration on Rates of Decarbonation and Iron Oxidation. C. Cravotta	A Pathway to Walk-Away? – 30 Year Old Technology to Suppress Acid Rock Drainage Revisited. J. Gusek
2:30-3:00	Assessing the benefits of at source vs. in stream AMD treatment: Implications for managing water liabilities under the WVDEP's Bond Forfeiture Program. M.P. Sheehan	Surface and Subsurface Tillage Effects on Soil Properties and Tree Growth at an East Texas Lignite Surface Mine. Hannah Angel (student)	The Maelstrom Oxidizer - Astonishing Aeration System. J. Hayden	New Soil Reconstruction Method for Reclaiming Subsided Land with Yellow River Sediments. Z. Hu
3:00-3:30	Break MEC/Platinum Foyer			
3:30-4:00	Water Treatment: Planning for Forever, New Options. D.Eyde	Survival and Growth of Woody Plants on Four Reclaimed Mine Sites. Alexis Monteleone (student)	High Sulfate Mining Wastewater Treatment by Two-Stage Chemical Precipitation Process. K. Banerjee	Utilization of Extractable Soil Test Sulfate as an Indicator for Acid Producing Pyritic Sulfur. D. Lang

4:00-4:30	Local Government Entities in Improving AMD Impaired Waters. D.L. Wagner	The Effects of <i>Castor canadensis</i> (North American Beaver) Repopulation on a Mine Drainage Impacted Stream. Nicholas Shepherd (student)	A Case Study Evaluating Effluent Quality Following Chemical and Electrochemical Precipitation for Metals Removal from Acid Mine Drainage Water. B. Lesikar	Initial Evaluation of Ripper and Tillage Methods on Reclaimed Heavy Mineral Mine Soils. Z. Orndorff
4:30-5:00	Ecology, Forestry & Wildlife TD Business Meetings	Effect of Grading on Productivity of High-Value Tree Species in Appalachian Surface Mines. Wesley Dement (student)	Water Management TD Business Meeting	Pollution Loading Tracking to Characterize Success of an Anoxic Limestone Drain Installation on Lambert's Run, Southwestern Pennsylvania. H. Patton (student)
5:00-5:30		Flight 93 National Memorial Reforestation Project. M. Tyree		Soils & Overburden, Geotechnical Engineering, International Tailings TD Business Meetings

Tuesday, April 11, 2017

7:30-8:00	ARRI/Flight 93 Field Trip Departs		Imaging & Modeling 1 - Salon D	Passive Treatment - Metals - Salon E
8:00-8:30		Geocoding locations of historic reclamation research sites using Google Earth. Ruopu Li	Zinc and Nickel Sorption and Desorption Using a Mixed Algae Community Collected from a Mine Drainage Passive Treatment System. Ellen Fielding (student)	
8:30-9:00		Georeferencing of American Society of Mining and Reclamation Proceedings: A New Tool and Patterns in Reclamation Research. Ashley Rovder (student)	Evolution of Trace Metal Removal Products in Field-scale Vertical Flow Bioreactors. J. Labar	
9:00-9:30		Detecting the Presence of Coal Mining Impacts by Predicting Acid Mine Drainage Impacted Streams Using Aerial Imagery. J. Bowman	Metal Reclamation Units (MRUs Wetlands in a Box) for AMD and Nutrient Cycling. C. Lennox	
9:30-10:00		Unmanned Aerial Vehicle (UAV) Survey for Year-End Mining Reclamation Estimation. M. Maguire	Advancements in Iron Terrace Design for Metal Mine Sites. J. Gusek	
10:00-10:30		Break		MEC/Platinum Foyer
		Student Presentations - Salon D	Passive Treatment AMD Control 1 - Salon E	
10:30-11:00		A Feasibility Study for the Automated Monitoring and Control of Mine Water Discharges. Christopher Vass (student)	Geochemical Controls on Limestone Utilization in Abandoned Mine Land Reclamation. P. Giri (student)	
11:00-11:30		Understanding Storm Response of AMD Impacted Streams. Zebulon Martin (student)	Effective Modification to the Design and Application of Constructed Wetlands and Limestone Beds. B. Means	

Tuesday, April 11, 2017 - Afternoon Field Trips

11:30-5:00	<p>Field Trips – Box Lunch, Meet at Registration Table</p> <p>#1) Surface mining, AMD and Land Use #2) AMD Chemical Treatment #3) AMD Passive Treatment #4) Longview Power Plant</p>
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Wednesday, April 12, 2017


	Reclamation in Arid Regions - Salon C	ARRI, Forestry & Ecology 2 - Salon D	Passive Treatment - Hydrology - Salon E
8:00-8:30	Objectives and Design Solutions of a 1000-year Evapotranspiration-Capillary Surface Barrier System. Z.F. Zhang	Some thoughts on planting native tree species in mine land reforestation. M. B. Adams	Challenges of Designing and Building a Passive Treatment System with Limited Topography, Hydraulic Head, and Available Land Area. R. Nairn
8:30-9:00	Revegetation success at several Montana sites using soil amendments. S.R. Jennings	Regeneration dynamics of seedling origin aspen: Working towards resiliency in forest restoration. Carolyn King (student)	Seasonal Storm-Induced metal transport dynamics Between Oxidative passive Treatment cells. Leah Oxenford (student)
9:00-9:30	Restoration Techniques to Increase Survival and Vigor of Wyoming Big Sagebrush Seedlings. Amy Jacobs (student)	Tree seedling survival after planting under varying treatments on reclaimed mine land. P. Boleman	Quantifying Hydraulic Conductivity in Mine Drainage Passive Treatment System Vertical Flow Bioreactors. Brian Page (student)
9:30-10:00	Soil changes during stockpiling and after reclamation at three Wyoming natural gas production areas. J. Norton	Growth Rates of Hardwood Trees Nine Years after Reclamation in Response to Substrates and Amendments. K. Dallaire	Iron Transport and Removal Dynamics in the Oxidative Unit of a Passive Treatment System: A Five-Year Performance Evaluation. Leah Oxenford (student)
10:00-10:30	Break MEC/Platinum Foyer		
	Reclamation for AMD Control & Beneficial Uses - Salon C	ARRI, Forestry & Ecology 3 - Salon D	Imaging & Modeling 2 - Salon E
10:30-11:00	Sludge Impact on the Stabilization of the Fire Road Mine in New Brunswick. M. Coleman	Establishment of Hybrid Poplar on a Reclaimed Mine Site in Southern West Virginia. A. Hass	Applying land forming to reclamation: A case study in Central Appalachia. L. Hopkinson
11:00-11:30	Reclamation of Refuse Piles using Fluidized Bed Combustion Ash in the Blacklick Creek Watershed, Pennsylvania. R. Martin	Loblolly Pine Survival and Growth on a Reclaimed Mineral Sands Mine in Southeastern Virginia. S. Klopff	Subsidence wetland formation and transition in the high ground water table coal mining areas. Z. Hu.
11:30-12:00	Transforming Abandoned Mine Lands into a Botanic Garden. G. Watzlaf	Ecological Restoration on the Mower Tract within the Monongahela National Forest, WV. C. Barton	3D Modeling of the Sand Coulee Basin Abandoned Mine Lands. K. Brown
12:00-1:30	ARRI Awards Banquet, Student Awards		Downstairs MEC
	Reclamation for AMD Control & Beneficial Uses - Salon C	ARRI, Forestry & Ecology II - Salon D	Imaging & Modeling I - Salon E
1:30-2:00	Metals got you Down? A Look at Effective Mining-Influenced Water Treat. P. Dugan	Conservation of Northern Long-eared Bat Habitat at an Aggregate Mine in Westmoreland County, Pennsylvania. C. Rockey	Exploration of a Multi-Sensor Approach for the Detection and Mapping of Coal Mine Fires in the United States. A. Sivitskis

2:00-2:30	Preventing Acid Rock Drainage Can Source Control Really Be Successful? P. Eger	Natural Processes for the Restoration of Large Mines. D. Polster	Communicating Maintenance of Acid Mine Drainage Treatment Projects in Ohio. S.D.L. Cornwell
2:30-3:00	What Happens to a Mine after Mining? Making Mine Land Reclamation More of a Community Asset. M. Korb	Cost-effective Strategies for the restoration of large disturbances. D. Polster	Coupling Technical Assistance with Student Service Learning in Mine Water Reclamation. K.J. Green
3:00-3:30	Break		MEC/Platinum Foyer
	Reclamation for AMD Control & Beneficial Uses - Salon C	Passive Treatment - Sulfate - Salon D	Imaging & Modeling I - Salon E
3:30-4:00	Production of an iron oxide product from mine water: 15 year report. R. Hedin	A Field Demonstration of an alternative coal waste disposal technology - Geochemical findings. P Behum	Development of International Standards for Mine Reclamation. W.L. Daniels
4:00-4:30	Yields and Ethanol Production Potential of Switchgrass and Miscanthus on Reclaimed Mine Lands. S. Scagline	Sulfate Removal in Biochemical Reactors and Scrubbers Treating Neutral Low-Metal Concentration Mine Influenced Water (MIW). G. Fattore	Carbon Dioxide: A Global Problem in Search of a Rational Global Solution. K.C. Vories
4:30-5:00	Native vegetation in reclamation: improving habitat and ecosystem function through using prairie species in mine land reclamation . R. Swab	Passive Treatment of Sulfate from Mine-Influenced Water. B.T. Thomas	Development of a low-cost remote water quality monitoring system in acid mine drainage impaired watersheds. N. Kruse
5:00-5:30	JASMR Editorial Board Meeting	Three Year Performance Evaluation of a Sulfate Reducing Bioreactor for Mine Water Treatment in PA: Sulfate Removal, Sulfide Control, and TDS Reduction. W. Walker	Land Use Planning & Design TD Business Meeting

Thursday, April 13, 2017

	Surface Water - Hydrology - Salon C	Surface Water - Aquatic Impacts - Salon D	Groundwater and Mine Pools - Salon E
8:00-8:30	Hydrological and Geophysical Methods to Investigate Streamflow Losses and Restoration Strategies in Abandoned Mine Lands of Schuylkill River Watershed, Pennsylvania, USA, 2012-2015 C. Cravotta	Relationship between aqueous and sediment chemistry and biological recovery across a gradient of acid mine drainage impairment. N. Kruse	Groundwater Modeling Used to Design of a Tailings Impoundment Removal near Yellowstone National Park. T.H. Henderson
8:30-9:00	Mine Reclamation Applications of a New Water Budget Model: Wetbud. W. L. Daniels	The Appalachian stream syndrome: complex local conditions and regional metacommunity degradation caused by the accumulation of multiple stressors. E. Merriam	Seasonal Recharge and Groundwater Storage in a Below Drainage Mine-pool. E. Perry
9:00-9:30	Assessing How Hydrologic Isolation of Coal Mine Spoils Affects Streamflow Mechanisms and Water Chemistry Using Open Source Wireless Technology. S. Fulton student	The Impacts of Acid Mine Drainage Remediation Projects on Water Quality, Aquatic Macroinvertebrate, and Fish Populations in the Deckers Creek Watershed, Monongalia and Preston Counties, West Virginia. N. Revetta	North Branch Potomac River Mine Pool Assessment Study. N.D. Pointon

9:30-10:00	Seasonal recovery of an Appalachian stream affected by acid mine drainage and municipal wastewater. M. Whited	Water quality and biotic condition in mining-influenced Appalachian headwater streams: an overview of a long-term study. S. Schoenholtz	Groundwater tracing in mine pools above the Cabin Creek oilfield in Kanawha County, West Virginia. A. Schaer
10:00-10:30	Break		MEC/Platinum Foyer
	Surface Water - Modeling & Prediction - Salon C	Surface Water - Aquatic Impacts - Salon D	Passive AMD Control 2 - Salon E
10:30-11:00	Field Predictors for TDS Generation Potential from Appalachian Mine Spoils. D. Johnson	Effects of Longwall Mining on Aquatic Resources at the Bailey Mine in Southwestern Pennsylvania. M. Shema	Passive Treatment of Highly Contaminated Iron-Rich Acid Mine Drainage. C. Neculita
11:00-11:30		Selenium Dynamics in Mining-Influenced Headwater Streams of Central Appalachia. K. Whitmore (student)	The Complicated Role of CO ² in Mine Drainage Treatment. R. Hedin
11:30-12:00		Water Quality and Freshwater Mussel Status in Mining-Influenced Virginia-Tennessee Rivers. C. Zipper	
12:00-1:00	Adjourn		



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