**2013 Joint Conference**

**2nd Wyoming Reclamation and Restoration Symposium and**

**30th Annual Meeting of the American Society of Mining & Reclamation**

**June 1-7, 2013 ▪ Hilton Garden Inn ▪ Laramie, Wyoming (USA)**

***Reclamation Across Industries***

**Program & Registration Information**

Good Ol’ Laramie, Wyoming is known as the Gem City of the Plains and is located in the southeast corner of the state, on the edge of the Rocky Mountains at a staggering elevation of 7,220 ft.! Wyoming is a natural resource state and leads the nation in production of coal, bentonite, uranium, and trona as well as being the country’s second largest producer of natural gas. With all of this natural resource production, we also have a large land reclamation industry in the state, hence this year’s “Reclamation Across Industries” theme. The Joint Conference of the 2nd Wyoming Reclamation and Restoration Symposium and the 30th Annual Meeting of the American Society of Mining and Reclamation is scheduled for the week of June 1-7, 2013 in Laramie, Wyoming.

A **Welcome Social** the evening of Sunday, June 2 will include appetizers and a no-host bar. This provides an opportunity to visit with the Exhibitors as well as other participants, in the Grand Ballroom Lobby at the Hilton. An evening **Sponsor’s Social** in the Hilton Conference Center is planned on Monday, June 3. The **Early Career Professionals’ Social** will be held on Tuesday evening, June 4 at the UW Visual Arts Building. The **ASMR Awards Luncheon** will be held Thursday, June 6th, with **catered lunches Monday and Wednesday in the Grand Ballroom Lobby.**  An evening of **dinner and entertainment** is scheduled for Wednesday, June 5, at the Wyoming Territorial Prison State Historic Site. All **breakfasts** and **refreshment breaks** (coffee in the mornings and soft drinks in the afternoons) will be held in the Grand Ballroom Lobby at the UW Conference Center/Hilton Garden Inn during the technical sessions (See Exhibitor and Arena Maps on the [ASMR](http://www.asmr.us/) webpage under Upcoming Meetings <http://www.asmr.us/Meetings/UpcomingMeetings.htm>). Each of these provides an opportunity for fellowship and technical exchange with colleagues.

**ASMR Program Committee**

Dr. Pete Stahl, Chair

Dr. Richard Barnhisel, Editor and Registration

George Vance, Co-Chair Technical Program

Gerald Schuman, Co-Chair Technical Program

Brenda Schladweiler and Gary Austin, Fundraising

Jay Norton, Calvin Strom, Pete Stahl and Anna Waitkus, Technical Tours

Kristin Herman and Gerald Schuman, Social Events

**Financial Sponsors (to date)**

**Platinum**

BP

**Gold**

Peabody Energy Inc.

BKS Environmental

School of Energy Resources at the University of Wyoming

**Silver**

KC Harvey

**Bronze**

Stevenson Intermountain Seed

**Transportation to Laramie, Wyoming**

**Airports:**

Denver International Airport (DIA) – Denver, CO - via I-25/I-80 or I-25/US 287

* there are several car rental companies located at DIA
* From DIA, Laramie is about 130 miles (2.5 hour drive). It is an easy drive (unless winter driving conditions are encountered) by taking I-25 north to Cheyenne and then west on I-80 to Laramie. Highway US 287 from Fort Collins, CO to Laramie is a more scenic drive.
* An alternative to flying from DIA to Laramie is a shuttle service operated by Greenride out of Fort Collins, CO (greenrideco.com or 888-472-6656) which has service out of DIA every two hours ($75 one way).

Laramie Regional Airport – Laramie, WY – located 2 miles west of town

* United Express (SkyWest) flies from Laramie to DIA, Denver (book through United.com)
* Shuttle will take you from Laramie airport to Hilton Garden Inn if requested
* <http://www.laramieairport.com/>

**Conference location:**

Hilton Garden Inn and UW Conference Center

* 2229 Grand Avenue, Laramie, WY
* Enter through double doors on southwest side of the Conference Center
* Map/directions: <http://www.uwconferencecenter.com/aboutDirections.html>

**Hotels with block rate:**

Hilton Garden Inn – 2229 Grand Avenue, Laramie, WY (307) 745-5500

* Group Name: American Society of Mining & Reclamation
* Group Code: ASMR
* Rate $115-$135
* To reserve room directly: <http://hiltongardeninn.hilton.com/en/gi/groups/personalized/L/LARLAGI-ASMR-20130601/index.jhtml?WT.mc_id=POG>

Holiday Inn – 204 S. 30th, Laramie, WY (307) 721-9000

* Contact: Gary Treahy
* Group name: ASMR
* Rate $119

Other Hotels close to Conference location (no block rate):

* Hampton Inn – 3715 East Grand Avenue, Laramie, WY (307) 742-0125
* Comfort Inn – 3420 Grand Avenue, Laramie, WY (307) 721-8856
* AmericInn – 4712 East Grand Avenue, Laramie, WY (307) 745-0777

**Pre-Conference Workshops**

**Workshop 1:** Basics of ArcGIS and GPS for Field Mapping **(two day workshop)**

**Date:** Saturday, June 1, 9:00am to 5:00 pm **AND**

Sunday, June 2, 9:00 am to 4:00 pm

**Location:** tbd

**Lead Instructor:** Janine Ferarese, Marcelo Calle, and Alan Buss

**Number of Students:** Minimum 6- Maximum 16

**Cost:** *Dependent upon number of participants* between $166 for 6 persons and $65 for 16 persons (prorated refund will be made to participants in Laramie).

**Description:** The workshop is designed to teach participants the fundamentals of using ArcGIS Desktop software and GPS data collection tools to create a map using data collected in the field. Students will learn what coordinate systems, datums, and projections are and why understanding them is vital to working with spatial data. The participants will gain hands on experience using GPS (Trimble and Garmin) in the field, collecting spatial data (points, line, polygons) and transferring collected data from a GPS unit to a computer. Use of simple tools and utilities in ArcGIS, and creation of professional quality maps will be taught. GPS units (Garmin, Trimble GeoXM and Trimble Juno ST) will be provided.

**Workshop 2:** Reclamation of drastically disturbed salt- and sodium-affected soils

**Date:** Sunday, June 2, 9:00 am to 4:00 pm

**Location:** LREC Greenhouse, 30th & Harney Streets

**Lead Instructor:** Jay Norton, Raymond Ansotegui, Calvin Strom

**Number of Students:** 10-20

**Cost:** $25

**Description:** Reclaiming severely disturbed soils with elevated levels of salt, sodium, or both is difficult. Soil salvage operations often mix surface soils with materials from deeper in the soil profile that may contain higher salt and/or sodium levels, pushing salt/sodium contents at the surface out of the range even of tolerant desert plants. Once concentrations in surface soils are elevated, returning them to levels suitable for establishment and growth, even of salt-tolerant plants, can be challenging. The goals of this workshop are to examine ways to: 1) avoid elevating near-surface salt and/or sodium contents by careful identification of suitable soils for salvage, considering the tolerances of the pre-disturbance plant community, and 2) mitigate elevated near-surface salt and/or sodium levels using combinations of management and soil amendments. The workshop will include hands-on field and lab components as well as interpretation of soil test results for creating salvage and mitigation plans.

**Tours**

**Tuesday, June 4, 2013**

Wamsutter Gas Field, 8am-5:30pm

Currently the largest on-shore natural gas field in North America and located in the Red Desert of south central Wyoming, the Wamsutter field is a semi-arid sagebrush steppe environment receiving 20 cm of annual precipitation. Several major energy companies are producing natural gas in the Wamsutter field and are responsible for reclaiming thousands of well pads and thousands of miles of access roads. We will have several reclamation experts with broad experience working in the Wamsutter Field as guides on this trip. This tour will be made in cooperation with the High Altitude Revegetation Committee’s Summer Field Tour. Lunch provided

**Friday, June 7 – Saturday, June 8, 2013**

Powder River Basin Energy Tour – Laramie to Gillette

This general Wyoming Energy Resources and Reclamation Tour is a **2-day trip** that will involve driving from Laramie to Gillette, WY. Along the way, we will stop to visit a number of energy production sites. Stops will include the Rolling Hills Wind Energy Farm, an In-situ Uranium Mine, the North Antelope surface coal mine, and a coal fired electrical power generation facility.

**Exhibitor’s Welcome Social**

The Joint Conference Exhibitor’s Welcome Social will be held from 5-8pm on Sunday, June 2 at the Hilton Garden Inn and UW Conference Center for all attendees. Light appetizers and refreshments will be available. Renew old acquaintances and meet new people that share mutual professional interests!

**Plenary Session**

**See Schedule**

**Waiting for finalization**

**Evening Social**

An evening social for attendees and spouses is scheduled for Wednesday, June 5, 2013 at the Wyoming Territorial Prison State Historic Site and dinner theater. A happy hour will be held at the Hilton Garden Inn from 4:30-5:30 pm. Buses will provide transportation to the Territorial Park, which is located in west Laramie, starting at 5:30 pm. Cost is $30 and includes two drinks (@Hilton Garden Inn), a buffet dinner (eat where the prisoners ate), music by Davis and Mavrick (a nostalgic musical journey through the 50’s, 60’s and 70’s), and a guided Ghost Tour of the prison. This promises to be a great evening of fun and history. This event is limited to a maximum of 160 people, so make sure you register early for this special evening.

*Built in 1872, the Wyoming Territorial Prison was restored and renovated in the 1990s by the efforts of the citizens of Laramie. There were 12 women [prisoners] housed here and more than 1,000 men, the most famous of which was Robert LeRoy Parker “Butch Cassidy”. The restored Prison building, Warden’s house, and Prison Industries building interpret this colorful and dramatic portion of the site’s history. Following the removal of prisoners to a new facility in Rawlins (1903), the University of Wyoming acquired the prison property and adapted the buildings and grounds for use as an agricultural experiment station [facility] for the College of Ag. The College of Agriculture utilized the site until 1989, when restoration work began and the site was recognized as a valuable historic property. The 2012 opening of “Science on the Range” exhibit explores the breeding projects and research efforts of students and staff on the “Stock Farm”.*

*-****http://www.wyomingterritorialprison.com***

**Early Career Professionals’ Social**

The Early Career Professionals will host a social on Tuesday, June 4, 2013, 6:00 pm, at the Visual Arts building on the University of Wyoming campus. Located one block north of the Hilton Garden Inn and Conference Center, transportation will not be provided. Appetizers and refreshments will be provided. This is a great opportunity to network with other professionals just beginning their reclamation career and with the “old folks” that have a great deal of experience and knowledge in the field of land reclamation.

**Sponsor’s Social & Poster Session**

Monday, June 3, 2013 5:00 pm – 7:00 pm

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| --- |
| Poster Session - *Grand Ballroom Lobby and Salon ABC* |
| A Comparison Between Proposed Well Pad Reclamation Vegetal Cover Standards and Their Associated Multiple Land Use Vegetation Communities and Well Pads by M. Heil, B.A. Buchanan and H. McDaniel |
| Foliar Cover and Canopy Cover Relationships on the Goathill Subsidence in Questa NM by T. Richardson, M. Heil, B.A. Buchanan and D. Heafey |
| Growth of Switchgrass on Reclaimed Surface Mine by C. Brown and J. Skousen *(student)* |
| Canopy Cover Estimation Using Aerial Photography For a Mixed Conifer Zone, Northern, New Mexico by D. Inskeep, M. Heil, B.A. Buchanan and D. Heafey |
| Impact of Inoculation with Plant Material on Plant Development; Greenhouse Tests by C. Nelson, W. Rider and A. Unc |
| Seed Source and Sagebrush Habitat Reclamation Success on the Mowry Formation by M. Dillon and M. Cornia |
| The Use of Amendments in Reclamation of Salt-Affected Soils: Gypsum, Elemental Sulfur, Langbeinite, and Municipal Solid Waste Compost by S.J. Day, J.B. Norton, C.F. Strom, T.J. Kelleners and P.D. Stahl *(student)* |
| Carbon isotopes as a basis for evaluating alkalinity generation over time with a sulfate-reducing bioreactor in south-central Indiana by S.W. Emenhiser, P.E. Sauer, T.D. Branam and G.A. Olyphant *(student)* |
| Least Limiting Water Range of a Waste of Laundering Bauxite After Eleven Year Revegetated by G.C. Rocha, L.A. de O.P. Guimarães, L.E. Dias, I.R. de Assis, S.M. de Faria, L.C. lemos Neto and J. Carvalho |
| Closure Criteria for Waste Rock Land forms in Western Australian Goldfields by A. McR. Holm and B. Sinclair |
| Rehabilitation Ironstones Outcrops Area Degraded by the Iron Mining Activity on Minas Gerais State-Brazil by L.A. Lobo de Rexenda, L.E. Dias, I.R. de Assis and R. Braga |
| Revegetation of Overburden Dump Slopes in Areas Altered by Iron Mining, Carajás-Pa, Brazil by I.R. Assis, L.E. Dias, G.C Rocha, L.C. Lemos Neto and C.H.S. Rezende |
| Restoration of Surface Disturbances on the Short grass Steppe of Northeastern Colorado by S.A. Barr, J. Jonas, and M.W. Paschke *(student)* |
| Examining the Effectiveness of Mechanical Thinning for Increasing Mule Deer Forage in and Oil and Gas Development Region by G.J. Stephens, M.W Paschke and D.B. Johnston *(student)* |
| Genetic Diversity of Brook Trout Populations in Several Sub-watersheds of the West Branch Susquehanna River Watershed by S.M. Rummel and F.J. Brenner |
| Restoring Remnant Hardwood Forest Impacted by Surface Mining for Coal through Removal of the Invasive Tree-of-Heaven *(Ailanthus altissima)* by C.M. Peugh, J.M. Bauman and S.M. Byrd |
| Third Year Survival and Height Growth of American Chestnut on Post-Bond Release Surface Mines in Eastern Kentucky by H.Z. Angel, C.D. Barton and P.N. Angel *(student)* |
| Effect of Spoil Type on the Chemical and Hydrologic Profiles of Experimental Mine Reforestation Plots in Eastern Kentucky by K. Sena, C. Barton, C. Agouridis and R. Warner *(student)* |
| Reclamation of Abandoned Mine Land through Poultry Litter Biochar Amendment U. Buyantogtokh and M. Guo *(student)* |

**Silent Auction**

Please bring items to contribute to the ASMR Silent Auction. Items will be displayed prominently in the Grand Ballroom Lobby at the Hilton. This event is used to raise money for the ASMR Student Travel Fund to help students attend future meetings! Bidding will begin on Monday and continue until Thursday at 10:30am. Winners will be announced at the end of the Awards luncheon.

**ASMR Awards Luncheon**

Thursday, June 6, 2013, noon - 2:00 pm

Cost included in the registration fee, additional tickets may be purchased for spouse and/or significant other.

**Spouse/Significant Other Events**

One of the most exciting things to do in the Laramie area is to take a drive up to the Snowy Range to see the beautiful forests, subalpine and alpine environments in the Medicine Bow National Forest. It takes less than an hour to get to the Snowy Range Pass at an elevation of 10,000 ft. and the scenery is spectacular. Kristin Herman will be leading a tour to the Snowy Range on Wednesday, June 5.

* Snowy Range - hiking, Albany, Centennial, Woods Landing, Old Corral
  + <http://www.stateparks.com/medicine_bow.html>

Other Attractions

* Downtown Laramie
  + <http://www.laramiemainstreet.org/>
* Laramie Plains Museum and Historic Ivinson Mansion
  + An interesting historic site to in Laramie is the Old Ivinson Mansion. Completed in 1893, the mansion was home to the prominent Ivinson family and was the most elegantly appointed home in Laramie. Tours are available on Tuesday – Saturday afternoons from 1-4 pm at a reasonable cost.
    - <http://www.laramiemuseum.org/>
* Vedauwoo - Turtle Rock Trail, Ames Monument, Lincoln Monument
* Loveland Outlet Mall, Centerra – shopping
  + <http://www.outletsatloveland.com/>
  + http://www.thepromenadeshopsatcenterra.com/
* Visit Wyoming
  + <http://www.wyomingtourism.org/>
  + http://www.visitlaramie.org
* Wyoming Territorial Prison
  + <http://www.wyomingterritorialprison.com/>
  + 975 Snowy Range Road

At UW

* Art Museum
  + <http://www.uwyo.edu/artmuseum/index.html>
* Berry Biodiversity Conservation Center
  + <http://www.uwyo.edu/berrycenter/>
* Fine Arts/Theatre/Vedauwoo Rock performers
  + <http://www.uwyo.edu/finearts/>
* Geology Museum
  + <http://www.uwyo.edu/geomuseum/>
* Insect Museum
  + <http://wyoalumni.uwyo.edu/s/1254/index.aspx?sid=1254&gid=1&pgid=390>
* Planetarium
  + <http://www.uwyo.edu/physics/_files/docs/planetarium.html>
* Williams Conservatory
  + <http://www.uwyo.edu/botany/williams-conservatory/index.html>

**Exhibitor Information**

The 2nd Wyoming Reclamation and Restoration Symposium in conjunction with the 30th Annual Meeting of the American Society of Mining and Reclamation will provide an exceptional opportunity for your company or organization to interface with mining reclamation professionals and those who influence decisions about the purchase of products and services for the land reclamation industry. Register now to be a sponsor and/or to bring your company exhibit to Laramie in June 2013!

An **Exhibitor’s** **Welcome Social** the evening of Sunday, June 2 will include appetizers and a no-host bar. An evening **Sponsor’s Social** in the Hilton Conference Center is planned on Monday, June 3. The **Early Career Professionals’ Social** will be held on Tuesday evening, June 4. An evening of **dinner and entertainment** is scheduled for Wednesday, June 5, at the Wyoming Territorial Prison State Historic Site. The **ASMR Awards Luncheon** will be held Thursday, June 6th, with **catered lunches Monday and Wednesday in the Grand Ballroom Lobby.** All **breakfasts** and **refreshment breaks** (coffee in the mornings and soft drinks in the afternoons) will be held in the Grand Ballroom Lobby at the UW Conference Center/Hilton during the technical sessions (See Exhibitor and Arena Maps on the [ASMR](http://www.asmr.us/) webpage under Upcoming Meetings, <http://www.asmr.us/Meetings/UpcomingMeetings.htm> ). Each of these provides an opportunity for fellowship with colleagues with similar reclamation interests.

Exhibitors will be listed on the ASMR website by name/logo which includes either a link to the company’s website or short listing of contact information. The website listing will stay on the main ASMR website until the 2014 annual meeting. Your company can also be a sponsor of any or all of these activities (please see separate information for sponsors for more details).

Traditional booths for display feature a 2’ x 6’ table with chairs and a backdrop. Arrangements should be made separately should you require additional features such as electrical service; please contact us and we will try to accommodate as best we can. The Grand Ballroom Lobby at the UW Conference Center has been arranged to facilitate traffic throughout the entire exhibit area by strategic placement of refreshment areas and concurrent technical session rooms. **Set-up can begin Saturday, June 1 at 10:00am, but must be completed by Sunday, June 2 at 5:00 pm. Breakdown can begin after 2pm on Thursday, June 6 and must be completed by Thursday night.** The UW Conference Center will be open daily during the conference with locked security at night. A floor plan outlining the location of booths within the center is listed on the following pages. Please select three locations by preference. Reservations will be made upon receipt of funds on a first-come, first-serve basis. Please note that the booth floor plan is subject to change dependent upon number of exhibitors. An updated floor plan will be posted on the ASMR web page as exhibit spaces are sold. That may be found at [www.asmr.us](http://www.asmr.us) under Upcoming Meetings, Laramie: Exhibitor Map

* The final registration materials for attendees will include a packet identifying all exhibitors, their addresses, and the services and/or products provided. Please include a short narrative of your business for this packet. We anticipate 1 to 2 additional mailings for this Conference, as well as website exposure, and these will include **confirmed** exhibitors and sponsors. To maximize your company’s exposure, early registration is essential!

Please fill out the Sponsor/Exhibitor Registration Form and **return with payment prior to April 1, 2013**:

American Society of Mining and Reclamation (ASMR)

c/o Dr. Richard Barnhisel

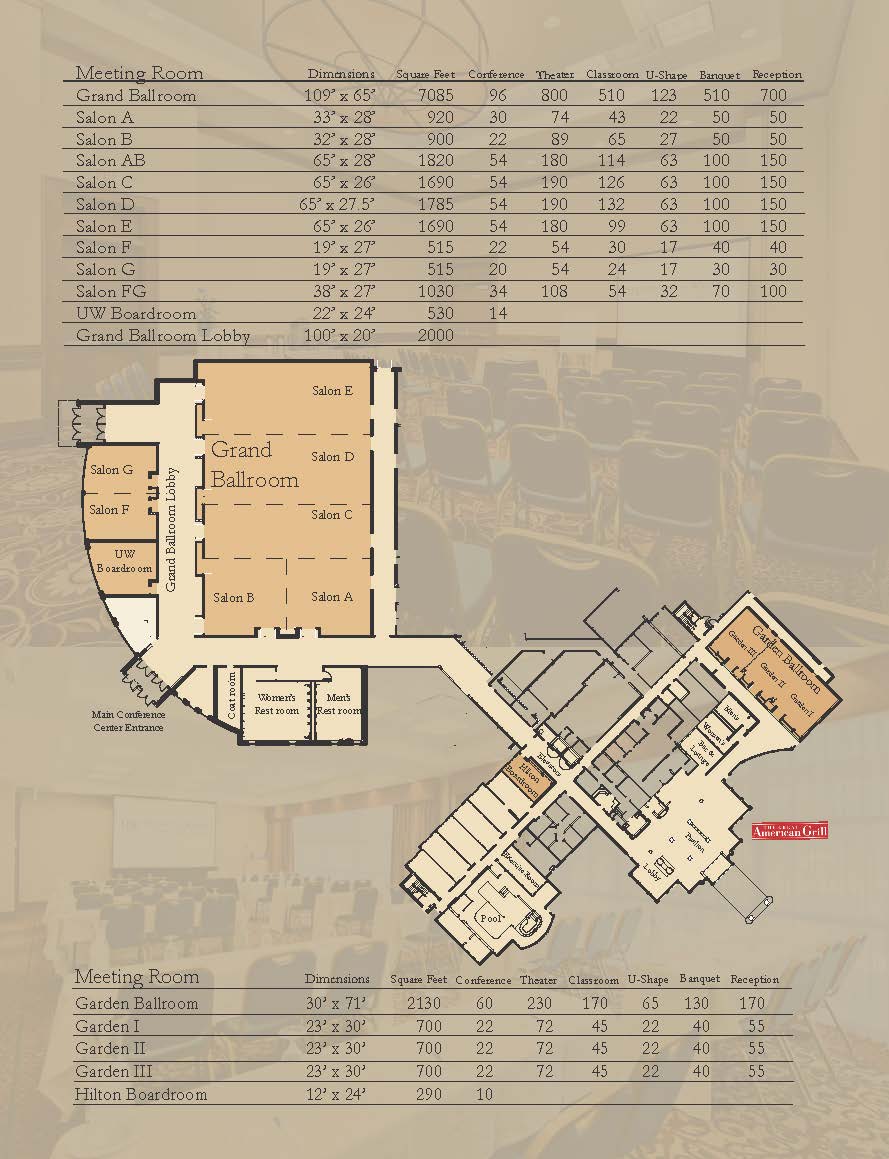
3134 Montavesta Road

Lexington, KY 40502

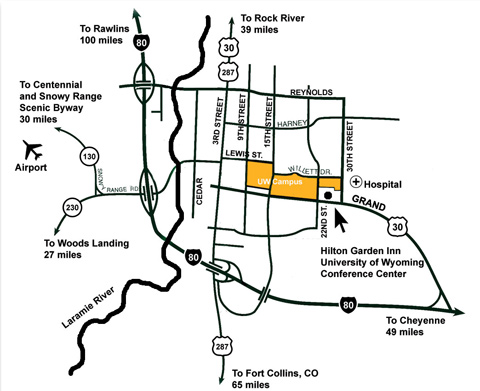
E-mail: [asmr5@insightbb.com](mailto:asmr5@insightbb.com) ▪ (859) 351-9032



**Hilton Garden Inn and UW Conference Center**

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**Map to the Hilton**

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**Exhibitor/Sponsor Registration Form**

**Company Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Registrant(s)/Contact Name(s):**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Address:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**State:**  \_\_\_\_\_\_\_\_\_\_ **Zip:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Country:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Phone:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **FAX:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**E-Mail:**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Web page address**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Booth Preferences (#1 – 28 on Attached Map, visit ASMR web page to see available locations** [**www.asmr.us**](http://www.asmr.us) **This is under Annual Meetings, Laramie, exhibit hall, First Come, First Served)**

|  |  |  |
| --- | --- | --- |
| **1st 1st Choice** | **2n 2nd Choice** | **3r 3rd Choice** |

**Exhibitor Selections and Costs**

**Non-sponsor Booth**  **$1000** **\_\_\_\_\_\_\_\_**  **(Includes 2 non-refundable complete registrations)**

**Sponsor Booth $ 750 \_\_\_\_\_\_\_\_ (Gold Sponsors receive one free booth, Silver and**

**Bronze sponsors may reserve one booth at a discounted price of $750)**

**Meal Sponsorship: Breakfast: $500.00 \_\_ Lunch: $750.00 \_\_ Evening: $1,000 \_\_\_**

**Refreshment Sponsorship: AM Break: $300.00 \_\_ PM Break: $350.00 \_\_**

**SUBTOTAL:** \_\_\_\_\_\_\_\_\_\_\_

**(Please add 6% for processing fee if using a credit card) – or 4% if using** [**PayPal**](http://www.asmr.us/Membership/Payments/PayPal.htm) **at** [**www.asmr.us**](http://www.asmr.us) **click on PayPal and enter appropriate amount under the Meetings Button and the processing fee under Misc. button. If you are not a PayPal user you may need to first register with this organization and I believe this will “pop” up first before you can proceed.**

Visa or MasterCard #\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ Expiration Date \_\_\_\_\_\_\_

TOTAL: \_\_\_\_\_\_\_\_\_\_\_\_

Checks should be made payable to ASMR by April 1, 2013

**\*NOTE: For additional information and/or to discuss Company Logo, please contact Richard Barnhisel at** [**asmr5@insightbb.com**](mailto:asmr5@insightbb.com) **or call (859) 351-9032**

Mail to ASMR, 3134 Montavesta Rd, Lexington, KY 40502

**Preliminary Agenda** *(draft, subject to change)*

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Monday, June 3, 2013 | | | | | | | |
| 6:30 am – 10:00 am | **Breakfast** – *salon FG* | | | | | | |
| 7:30 am – 8:30 am | **Registration** - *lobby* | | | | | | |
| 8:30 am – 9:00 am | **Welcome** by Dr. Pete Stahl and  Dr. Frank Galey, Dean, College of Agriculture and Natural Resources  *Salon ABC* | | | | | | |
| 9:00 am – 9:30 am | **Land Reclamation in the Rocky Mountain West\***  Mark Paschke, Shell Endowed Chair of Restoration Ecology Forest and Rangeland Stewardship Department and Research Associate Dean Warner College of Natural Resources, Colorado State University | | | | | | |
| 9:30 am – 10:00 am | **Economic Importance of Land Reclamation in Wyoming and the West\***  tbd | | | | | | |
| 10:00 am – 10:30 am | **break** *- lobby* | | | | | | |
| 10:30 am – 11:00 am | **Governor Matt Mead\***  **\*speakers tentative** | | | | | | |
| 11:00 am – 11:45 am | **Ghost Towns of the Rocky Mountains**  Preethi Burkholder | | | | | | |
| 11:45 am – 1:00 pm | **Lunch** – *Salon ABC* | | | | | | |
|  | **Wildlife**  ***Garden Ballroom*** | **Forestry**  ***Salon D*** | | **Soils**  ***Salon E*** | | **Water**  ***Salon FG*** | |
| 1:00 pm – 1:30 pm | **Sustaining Raptor Populations at the North Antelope Rochelle Mine in Northeast Wyoming** by G.  McKee, P. Griswold and M. O’Rourke | **Rebuilding Soils for Forest Restoration on Appalachian Mined Land** by C.E. Zipper, J.A. Burger, C.D. Barton and J.G. Skousen | | **Reclamation Planning for Energy Development projects: Wamsutter, WY; A Case Study** by C. Driessen, B. Teson, D. Marshall and R. Ansotegui | | **Passive Aeration Using a Trompe** by B.R. Leavitt, B.J. Page, C.A. Neely, R.M. Mahony, T.P. Danehy, C.F. Denholm, S.L. Busler and M.H. Dunn | |
| 1:30 pm – 2:00 pm | **Female Wild Turkey Ecology on a Midwest Reclaimed Surface Mine** by K.S. Delahunt, J.R. Nawrot and C.K. Nielsen | **Growth of Hardwood Trees on Brown and Gray Mine Spoils in West Virginia** by L. Wilson-Kokes, J. Skousen, P. Emerson, C. DeLong and C. Thomas  ***(student****)* | | **Quantitative Monitoring in oil and Gas Reclamation: What Can It Do For You?** By T.J. Minnick | | **Passively-Enhanced Lime Mixing and Dissolution** by T.P. Danehy, B.R. Leavitt, B.J. Page, R.M. Mahony, C.A. Neely, C.F. Denholm, S.L. Busler and M.H. Dunn | |
| 2:00 pm – 2:30 pm | **North Cumberland Wildlife Management Area Proposed Coal Mining Simulations and Animation** by J. Spencer | **Native Tree Survival and Growth on an Experimentally Reclaimed Appalachian Coal Mine** by S.C. Koropchak, C.E. Zipper, J.A. Burger and D.M. Evans  ***(student)*** | | **Approaching oil and gas pad reclamation using data modeling: A framework for the future** by M.F. Curran, B.J. Wolff and P.D. Stahl  ***(student)*** | | **Filed Trial of a Pulsed Limestone Diversion Well** by P.L. Sibrell, C. Denholm and M. Dunn | |
| 2:30 pm – 3:00 pm | **Can Elk Mitigate Disturbance Risk Associated With Natural Gas Development?** By C.B. Buchanan and J.L. Beck  *(****student)*** | **The Presence of the Tree-of-Heaven *Ailanthus Altissima)* Interfers with Beneficial Symbionts and Negetively Impacts Oak Regeneration on Reclaimed Coal Mine Lands** by J.M. Bauman, S. Hiremath, C. Byrne and S.M. Byrd | | **Defining Oil and Gas Pad Reclamation Success on Wyoming BLM Lands** by M.F. Curran, B.J. Wolff and P.D. Stahl  ***(student)*** | | **Off-the-Grid Aeration to Address Nuisance Consituent Production from Specific Passive Treatment System Process Units** by R.W. Nairn, K.A. Strevett and J.A. LaBar | |
| 3:00 pm – 3:30 pm | **break** *- Salon ABC and lobby* | | | | | | |
| 3:30 pm – 4:00 pm | **Predicting the Influence of Restoration on Greater Sage-Grouse Lek Connectivity** by B.A. Fitzpatrick and M.A. Murphy  ***(student)*** | | **Factors Influencing the Establishment of Volunteer Vegetation on Quarry Overburden** by J.A. Franklin and D.S. Buckley | | **Challenging the Idea of Reference Sites as Indicators for Oil and Gas Pad Reclamation Success** by M.F. Curran, B.J. Wolff and P.D. Stahl  ***(student)*** | | **The Construction and Initial Results of a Demonstration Passive Treatment System for Removing Sulfate at a Site on Vancouver Island, British Columbia** by E.P. Blumenstein, R.J. Schipper and J.J. Gusek |
| 4:00 pm – 4:30 pm | **Greater Sage-Grouse Response to Bentonite Mining in the Bighorn Basin, Wyoming** by A. C. Pratt and J.L. Beck  ***(student)*** | | **Russian Thistle Population Dynamics at a Former Coal Mine in Northern New Mexico** by A. Maier and J. White | | **Monitoring and Thresholds For Irrigated Lands in Coal Bed Methane Areas** by J. Thomas | | **Seasonality of Iron Removal Within the Initial Oxidation cell of a Passive Treatment System** by L. R. Oxenford and R. W. Nairn  ***(student)*** |
| 4:30 pm – 5:00 pm | *Technical Division Meeting for Forest/Wildlife* | | **Conserving an S1/G5/T2 Mustard at a Southcentral Montana Coal Mine Through Nursery Propagation and Transplanting** by G.L. Johnson and R. A. Prodgers | | **Using Isotopes to Study Coalbed Natural Gas Co-Produced Water and Soil Interactions** by K. J. Lilly and G. F Vance  *(****student)*** | | **Passive Treatment Systems for the Removal of Selenium: Barrel Substrate Studies, Design, and Full-Scale Implementation** by R.C. Thomas, M. A. Girts, J.J. Tudini, J. S. Bays, K.B. Jenkins, L. C. Roop and T. Cook |
| 5:00 pm – 7:00 pm | **Sponsor’s Social/Posters** – *Grand Ballroom Lobby and Salon ABC* | | | | | | |

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| Tuesday, June 4, 2013 | |
| 6:30 am – 10:00 am | **Breakfast** – *Salons ABC* |
| 8:00 am – 5:00 pm | Wamsutter field trip |
| 6:00 pm – 10:00 pm | **Early Career Professionals Social**, *UW Visual Arts building* |

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| Wednesday, June 5, 2013 | | | | | | | | |
| 6:30 am – 10:00 am | **Breakfast** *– Salons ABC* | | | | | | | |
|  | **Case Studies in Geomorphic Reclamation**  ***Garden Ballroom*** | | **Forestry/Wildlife**  ***Ballroom D*** | | | **Ecology**  ***Ballroom E*** | | **Stream Restoration & Wetlands**  ***Ballroom FG*** |
| 8:00 am – 8:30 am | **Geomorphic reclamation of abandoned coal mines on Vermejo Park Ranch near Raton, New Mexico  I. Design and construction oversight** by R. Spotts, M. Brennan, R. Wade, K.J. Malers, K.E. Carlson and Z. Isaacson | | **Long-Term Effects of Organic Amendments and Potential Carbon Sequestration in Southwest Virginia Mine Soils** by W.L. Nash, W.L. Daniels and J. A. Burger | | | **Fitness More Than Diversity Guides Vegetational Recovery** by R.A. Prodgers | | **Long-Term Trends of Specific Conductance in Waters Emerging From Headwater Valley Fills in Virginia, USA** by D.M. Evans, C.E. Zipper, P.F. Donovan, and W.L. Daniels  ***(student)*** |
| 8:30 am – 9:00 am | **Geomorphic reclamation of abandoned coal mines on Vermejo Park Ranch near Raton, New Mexico  II. Reclamation and Revegetation** by K.E. Carlson, R.F. Bay, R. Spotts, Z. Isaacson | | **The Fate of Nitrogen in Biosolids Amended Mineral Sands Mine Soils** by J. Dickerson, W. L. Daniels, G. Evanylo and K. Haering ***(student)*** | | | **Vegetation Inventory and Survey Methods; A Reclamation Tool** by M.L. Pokorny, D.R. Neuman, K. Edwards and P.D. Smith | | **Chemical Constituents in Water and Sediment from Grand Lake O’ the Cherokees, Oklahoma, Downstream from the Tri-State Lead-Zinc Mining District** by S.C. Zawrotny, J. Arango-Calderon, L. Diede, A. McLeod, G. Rutelonis, M. Salisbury, M.P. Beltran-Zuniga, G.A. Busch, K.R. Douglas, E.F. Garifalos, L. Liu, N. Nabavizadeh, M. Rice, D.W. Stevens, J.A. LaBar, D.E. Townsend III, R.C. Knox and R.W. Nairn  ***(student)*** |
| 9:00 am – 9:30 am | **Comparison of vegetation characteristics between geomorphic and traditional reclamation areas at a surface coal mine in northwestern New Mexico**byJ. Voss and T.C. Ramsey | | **From BS to BMP- Using Biosolids for Taconite Tailings Reclamation** by P. Eger, C. Lincoln, T. McMillen, K. Hamel, K. Dykhuis, C. Maxwell and J. Takala | | | **Comparison of Vegetation Cover vs. Precipitation on a Reclaimed Coal Mine in Northeastern Wyoming** by D. Gardner | | **Comparison of Natural Recovery of Surface Waters From Coal and Phosphate Mining** by R.S. Grippo and J.R. Pratt |
| 9:30 am – 10:00 am | **Achieving contemporaneous geomorphic reclamation at El Segundo Mine, New Mexico** by E. Hydrusko | | **Compost Rates for Remediating Reclaimed Saline Soils** by C. Strom | | | **Long-term Comparison of Vegetation Reference Area on Reclaimed Coal Mines in Northeastern Wyoming**  by B. Schladweiler | | **Using Texas Rapid Assessment Method for Premine and Postmine Wetland Evaluations** by E.D. Bearden and J.D. Wooten |
| 10:00 am – 10:30 am | **Break** *– Salons ABC* | | | | | | | |
| 10:30 am – 11:00 am | **Stream Restoration Initiative at the Jewett Lignite Mine**by J.McKinney, J. Young and D. Ezell | | | **Biochar for Reclamation in the Rocky Mountains: context, Science and Policy – can we find a nexus that works?** By A. Harley, B. McMullen, and M. Williams | | **How far have we come? A Reclection of Rehabilitation Research i n Australia Over the Past Two Decades** by D.R. Mulligan | **Determination of Dominant Trace Metal Sequestration Processes in Two Vertical Flow Bioreactors Using Modified Tessier Extractions** by J.A. LaBar and R.W. Nairn  ***(student)*** | |
| 11:00 am – 11:30 am | **Interactive Discussion** | | | **A Comparison of Different Volumes of Biochar on Acidic Soils to Increase Plant Growth and Reduce Soil Acidity** by C.D. Peltz | | **Developments in Mine Closure and Integration with Operations in Australia** by H. Lacy | **Decommissioning of an Anaerobic Passive Biochemical Reactor at the Standard Mine Superfund Site, Crested Butte, CO** by N.T. Gallagher, E. Blumenstein, T. Rutkowski and J. DeAngelis | |
| 11:30 am - noon | **Interactive Discussion** | | | **A Combination of Alumina Refining Residue (Bauxsol Acid B ExtraTM) and Biochar to Reduce Metal Concentrations in Acid Mine Drainage** by C.D. Peltz, C. Zillich and K.L. Brown | | **The 10th Year of the International Mine Closure Conferences: its Positive Influences on Effective Mine Closure, Completion and Reclamation in Australia** by H.W.B. Lacy | **Ten Years After: The Operation of the Luttrell Biochemical Reactor** by D.J. Reisman, A.K. Frandsen, D.T. Shanight and T. McAdams | |
| 12:00 – 1:00 pm | **Lunch** *– Salons ABC* | | | | | | | |
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|  | **Advances in the Science of Geomorphic Reclamation**  ***Garden Ballroom*** | | | **Geotech/Soil**  ***Ballroom D*** | **Revegetation Technologies**  ***Ballroom E*** | | **Soil Biogeochemical Processes**  ***Ballroom FG*** | |
| 1:00 – 1:30 pm | **Geomorphic principles applied to reclamation at BHP Billiton's Navaho Mine** by C. Brandt, T. Ramsey, L. Raymond | | | **Infiltration in Reconstructed Channels** by K. Bramlett, J.C. Stormont and M. Stone  ***(student)*** | **Benefits of Transplanting Salvaged Sagebrush Plants to Accelerate Reclamation** by M. Clancy, K. Fothergill, K. Tindall, L. Meyers, J. Diehl, M. Callen and S. Paulsen | | **Geochemical Properties of Weathered Soils and Underslying Overburden of the Pottsville Group in Central Appalachia** by D.K. Johnson and W.L. Daniels  ***(student)*** | |
| 1:30 – 2:00 pm | **Evaluation of geomorphic reclamation performance and models in the Southwestern U.S.** by M. Stone, J. Stormont, E. Epp, C. Byrne, S. Rahman, R. Powell, W. Rider and S. Perkins | | | **Channel Armoring Techniques Using Cellular Confinement Systems** by J.A. McConnell, and B. Wedin | **Investigating Sagebrush Reclamation Success for Bentonite Mined Areas in the Big Horn Basin, WY** by Z J. Liesenfeld, P.D. Stahl and L.C. King  ***(student)*** | | **Predicting Total Dissolved Solids Release from Overburden in Appalachian Coal Fields** by J. Odenheimver, J. Skousen and L.M. McDonald  ***(student)*** | |
| 2:00 – 2:30 pm | **Comparative analysis of multiple softwares used in aiding geomorphic reclamation** by K. Brown | | | **Weathered Spoil as a Low Permeable Barrier** by M. da Rosa, C.T. Agouridis and R.C. Warner  ***(student)*** | **Mature Subalpine Tree Transplanting at the Climax Mine, Climax, CO** by R.F. Bay, K.E. Carlson and A. Hilshorst | | **Leaching Potentials of Coal Spoil: Effects of Rock Type and Degree of Weathering** by Z. Orndorff and W.L. Daniels | |
| 2:30 – 3:00 pm | **High resolution LiDAR as a base for designing geomorphic reclamation schemes for surface mines in the Central Appalachians** by C. Yuill | | | **A Comparison of Soil Condition, Vegetation Communities, and Soil Redox Characteristics of Surface Mined Wetlands and Natural Wetlands in Southern Illinois** by B. Borries, K.W.J. Williard, J. Schoonover and S. Indorante  ***(student)*** | **Field Simulation of Different Approaches to Revegetate an Acid Sulfide Spoil in Brazil** by L.E. Dias, I.R. de Assis, J.M. Esper and O.A. Ferreira | | *Technical Division Meeting for Soils and Overburden* | |
| 3:00 pm – 3:30 pm | **Break** *– Salons ABC* | | | | | | | |
|  | Advances in the Science of Geomorphic Reclamation  *Garden Ballroom* | Geotech/Soil  *Ballroom D* | | | | Geotech Tailing  *Ballroom E* | Soil Biogeochemical Processes  *Ballroom F-G* | |
| 3:30 – 4:00 pm | **A Comparison of Stream Chemistry in Three Restored Illinois Coal Basin Streams: Initial Conditions vs. 10 and 20 Years Post-Restoration by**B. Borries, K. Williard, J. Schoonover, and J. Nawrot  ***(student)*** | **Soil Test and Bermudagrass Forage Yield Responses to Two Years of Animal Waste and FGD Gypsum Amendments** by J.J. Read, A. Adeli, J.P. Brooks and D.J. Lang | | | | **Federal Agency Benefit Analysis of a Remediation Monitoring tool for Abandoned Mine Lands** by L.M. Barber Franklin and D.R. Neuman | **Changes in Spoil Electrical Conductivity (EC) and Sodium Adsorption Ration (SAR) Following Irrigation at a Mine Site in Northwestern New Mexico** by S. Perkins, K. Applegate, B. Musslewhite and B. Buchanan | |
| 4:00 – 4:30 pm | **Interactive Discussion** | **Reclamation of Mined Land with Switchgrass, Miscanthus, and Arundo for Biofuel Production** by J. Skousen and B. Gutta | | | | **Transitioning From Clean Water Act Nationwide Permitting to Individual Permitting** by M.P. Owens and C.K. Applegate | **Coal Combustion By-Products Disposal Practices at a Surface Coal Mine in New Mexico: Leachate & Groundwater Quality Study** by C. Parker, K. Hart, B. Thomson, J. Stormont and M. Stone | |
| 4:30 – 5:00 + pm | ***Technical Division Meeting for Land Use Planning Geotechnical Engineering/Tailings*** | **Ectomycorrhizal Species Beneficial for Plant Establishment on Abandoned Mine Lands** by S. Hiremath, K. Lehtoma and J.M. Bauman | | | |  | ***Technical Division Meeting for Water Management*** | |
| 4:30 pm – 5:30 pm | **Happy hour**, *Hilton bar/lobby* | | | | | | | |
| 6:30 pm – 10:00 pm | **Social, *Wyoming Territorial Park*** | | | | | | | |

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| Thursday, June 6, 2013 | | | | |
| 6:30 am – 10:00 am | **Breakfast** – *Salons ABC* | | | |
|  | **Reclamation Success Evaluation**  ***Ballroom D*** | **Revegetation on Oil & Gas**  ***Ballroom E*** | | **Water**  ***Ballroom FG*** |
| 8:00 am – 8:30 am | **Is the Definition of Scale the Key to our Understanding and Delivery of the Components of Structure, Diversity and Function in the Restoration of Ecosystems?** By R.N. Humphries | **Soil Amendment Application during Drought on Oil and Gas Sites in Wyoming** by B. Schladweiler | | **A Study on the Possibility of Passively Treating a Heap Leach Pad Drain Down Soluntion** by A.M. Moderski, J.J. Gusek, C. Bucknam, C. Hager and T.R. Wildeman |
| 8:30 am – 9:00 am | **Development of a Spodumene (Lithium) Mine on Agricultural Land in the Southwest of Western Australia** by K. Lindbeck and B. Clark | **Design, Development, and Field Experience with Wood-Strand Erosion Control Mulch for Mine and Pipeline Projects** by J.H. Dooley, D.N. Lanning and M.C. Perry | | **Bench-Scale Treatability Testing for *In Situ* Bioremediation of Mining-Influenced Water** by N.T. Smith, N.A. Anton, D.J. Reisman, M.R. Nelson, A.K. Frandsen, R.L. Olsen and W.A. Rosche |
| 9:00 am – 9:30 am | **Reclamation of Two Coal Mines in Mongolia: The Eren Mine and the Planned Tavan Tolgoi Mine** by S.E. Williams, V. Pfannensteil and A. Jalsrai | **Silvertip Pipeline Spill Revegetation** by L. J. Ballek and L. Alvey | | **Antimony Removal From Mine Water Using Adsorbent Media** by D.T. Klempel |
| 9:30 am – 10:00 am | **The Contribution of Active Surface Mines in the Conservation of Lower Plant Communities in the South Wales Coalfield, United Kingdom** by R.N. Humphries | **Soil property recovery on a natural gas pipeline reclamation chronosequence** by C.K. Gasch, S.V. Huzurbazar and P.D. Stahl  ***(student)*** | | **A Short History of Pyrite and Acid Rock Drainage: An Engineer’s Perspective of ARD** by J.J. Gusek |
| 10:00 am – 10:30 am | **Break** *– Salons ABC* | | | |
|  | **Reclamation Success Evaluation**  ***Ballroom D*** | | **Revegetation on Oil & Gas**  ***Ballroom E*** | **Remediation Problems**  **for Reclamation**  ***Ballroom FG*** |
| 10:30 am – 11:00 am | **Using The RQ-11 Raven A and the T-Hawk for Oversight Inspections of Surface Coal Mines in West Virginia** by N.L. Carter, L.J. Monette and D.T. Beaman | | **Natural Gas Field Reclamation Integrating Reclamation Science, Weed Management, and Monitoring** by D. Marshall, R. Ansotegui, B. Teson and C. Driessen | **Co-Treatment of Acid Mine Drainage with Municipal Wastewater using the Activated Sludge Process: Performance Evaluation** by T.A. Hughes and N.F. Gray |
| 11:00 am – 11:30 am | **Field Direct, A Field Inspection Application Designed to Improve Data Integrity and Accessibility for Management Oversight** by K. Ward | | **Comparison of Basal and Aerial Cover for Total Vegetation Cover and Total Ground Cover on Oil and Gas Sites in Wyoming** by C. Adams | **Onsite Wasterwater Natural Treatment and Effluent Reuse System At The Omnilife Soccer Stadium in Guadalajara, Mexico** by A. Garrido, M. Ogden, P. Munoz and E. English |
| 11:30 am – 12 noon | ***Technical Division Meeting for LUP*** | | ***Technical Division Meeting for Ecology*** |  |
| 12:00 – 2:00 pm | **ASMR Awards Luncheon**  *Salon ABC* | | | |
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|  | **Innovations in Reclamation Evaluation**  ***Ballroom D*** | | **Geotech Tailing**  ***Ballroom E*** | **Special Reclamation Challenges**  ***Ballroom FG*** |
| 2:00 pm – 2:30 pm | **Geotechnical-Geophysical Void mapping and Foamed-Sand Backfilling of the Rapson Coal Mine, Colorado Springs, Colorado – Case Study** by K. Hanna, J. Pfeiffer, S. Hodges, D. Dunham, R. Palladino and A. Amundson | | **Azurite Mine – A Cercla Removal Action Case Study** by D.G. Wasley | **Surface Reclamation of the Captain Jack Mill Superfund Site** by N. Anton, T. Bragdon, M. Boardman, J. Jenkins and C. Van Drie |
| 2:30 pm – 3:00 pm | Ecological Restoration Plan for Abandoned Underground Coal Mine Site in Eastern China **by Z. Hu, W. Xiao, Y. Zhao and F. Wang** | | Creative Approaches To Old Reclamation Challenges **by D. Close** | Site Characterization and Evaluation of Reclamation Alternatives at the Black Pine Mine **by K.T. Houck, D.J. Clary and M.R. Donner** |
| 3:00 pm – 3:30 pm | **Statistical analysis of the effects of restoration on stream morphology in the Kerber Creek watershed, CO** by T. I. Klein, L. Archuleta, J. Willis and N. Tedela | | **Geochemical Modeling of Uranyl Sorption At A Colorado Test Site** by K.M. Brown | **Remediation of the Milltown Sediments in Montana** by D. Neuman, F. Hons, T. Moore, H. Shahandeh, R. Loeppert and C. Bangira |
| 3:30 pm – 4:00 pm | **Application of Innovative Reclamation Technique for a Steeply Dipping Open Pit Mine of India: A Case Study** by P. Kumar and A. Horel | | **Application of Landform Grading To Reclaim a Former Wyoming Uranium Mine** by J.K. Murphy and M.R. Donner | **Case Study: Utilizing Paste Technology for Reclamation of the Ute Ulay Upper Tailings Impoundments, Lake City, Colorado** by T. Tafi |

2013 Joint Conference

2nd Wyoming Reclamation and Restoration Symposium and

30th Annual Meeting of the American Society of Mining & Reclamation

June 1-7, 2013 ▪ Hilton Garden Inn ▪ Laramie, Wyoming (USA)

*Reclamation Across Industries*

**Registration Form**

In order to facilitate transportation, lodging, meal functions, and meeting room needs for the Conference, and to avoid late fees, the Program Committee strongly encourages pre-registering for the Conference.

Costs for registration, the various workshops and tours, plus other events are listed below.

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| --- |
| **Name** |
| **Company/Affiliation** |
| **Address** |
| **Address** |
| **City State/Province Zip/Mail Code** |
| **Country** |
| **Phone E-Mail Address** |

**General and Technical Sessions**

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|  |  | Number | Total |
| **Sunday-Thursday, June 1-6, 2013** **Pre-registration**  *(until May 1, 2013)*  *Includes ASMR Awards banquet ticket* | $275 /person |  | $ |
| **Late registration** *(after May 1, 2013)*  *Includes ASMR Awards banquet ticket* | $325 /person |  | $ |
| **Accompanying person/Spouse registration** | $100 /person |  | $ |
| **One Day Registration** *(check day) [ ] M [ ]Tu. [ ]W [ ]Th.* | $125 /person |  | $ |
| **Student Registration** *(submit copy of student ID with the registration form)* | $125 /person |  | $ |
| **Late registration** *(after May 1, 2013)* | $175 /person |  | $ |

**Workshops**

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|  |  | Number | Total |
| **Basics of ArcGIS and GPS for Field Mapping**  Sat. June 1, 9am – 5pm and Sun. June 2, 9:00am – 4:00pm  With Janine Ferarese, Marcelo Calle and Alan Buss | Enter $166 but look at page 3 |  | $ |
| **Reclamation of drastically disturbed salt- and sodium- affected soils**  Sun. June 2, 9am-4pm with Jay Norton, Raymond Ansotegui and Calvin Strom LREC Greenhouse (30th & Harney Streets) | $25/person |  | $ |

**Subtotal: Registration Amount (us dollars) $\_\_\_\_\_\_\_\_\_\_**

**Tours** *(First Come, First Served)*

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|  |  | Number | Total |
| **Wamsutter Gas Field** *(maximum 250)* | $ 40/person |  | $ |
| **Powder River Basin –** *Rolling Hills Wind Farm, Smith Ranch, ISR Uranium Mine, North Antelope Coal Mine (maximum 50)* | $ 150 /person |  | $ |

**Other Functions**

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|  |  | Number | Total |
| **Early Career Professional’s Social (Visual Arts Center)** *(2 drinks, appetizers)* | $25 /person |  | $ |
| **ASMR Awards Banquet** *(those not registered will need a ticket)* | $30 /person |  | $ |
| **Evening Social, Wyoming Territorial Prison Dinner Theater** *(dinner, entertainment)*  *Limited to 160 people maximum* | $35 /person |  | $ |

**Subtotal: Tours & Functions Amount (us dollars) $\_\_\_\_\_\_\_\_\_\_**

Total Registration Amount (us dollars) $\_\_\_\_\_\_\_\_\_\_

*NO REFUNDS AFTER MAY 8, 2013*

**Method of Payment:**

**[ ] Check made payable to ASMR**

**[ ] Credit card: [ ] Visa [ ] MasterCard Card # \_\_\_\_\_\_\_-\_\_\_\_\_\_\_-\_\_\_\_\_\_\_-\_\_\_\_\_\_\_Exp. Date \_\_\_\_**

**Card Holder Name (print) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**If you use PayPal add 4% or Credit Card add 6% Processing Fee $\_\_\_\_\_\_\_\_\_\_**

\_\_\_\_ *Check here if you need a receipt now, however, one will be included with the*

*registration packet when you arrive in Laramie*

**Send** check or credit card information to: ASMR, 3134 Montavesta Rd., Lexington, KY 40502

Or **fax** all payment information to 859.335.6529 or

Registration accepted by **email:** [asmr5@insightbb.com](mailto:asmr5@insightbb.com)

**Questions?** Richard Barnhisel, 859.351.9032 (tel.)