



SAN JUAN MINING & RECLAMATION CONFERENCE

May 2-4, 2018 - Creede, Colorado

“ Planning for Resiliency ”



Thank you sponsors!



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Conference Hosts 2018



Willow Creek Reclamation Committee was formed in 1998 to address water quality issues in the Willow Creek watershed caused from historic mining. This year, the WCRC is celebrating its 20th year of hard work! The WCRC has accomplished several characterization studies of the watershed, implemented projects to correct water quality impairments, and engaged stakeholders and community members in their work. In 2016, WCRC merged with the

Headwaters Alliance to implement the same techniques that proved impactful in the Willow Creek watershed, across the Upper Rio Grande. www.headwatersalliance.com



Mountain Studies Institute (MSI) is a non-profit, non-advocacy, mountain research and education center established in 2002 in Silverton, Colorado in the heart of the San Juan Mountains. MSI has developed a

highly collaborative, dynamic, and unique approach to serving our region, which has grown to encompass fourteen counties in Southwest Colorado. Our mission is to enhance understanding and sustainable use of the San Juan Mountains through research and education. This mission has positioned MSI to identify and articulate information needs, facilitate and complete research and restoration initiatives, and most importantly to ensure that pertinent scientific information is made available to decision makers and the general public. It is our vision that through science education, information is not only understood, but used to transform our communities into healthier, more sustainable places to live. More information available at www.mountainstudies.org



The Uncompahgre Watershed Partnership was founded in 2007 by a coalition of citizens, nonprofits, local and regional governments, and federal and state agencies dedicated to understanding, restoring and protecting land and natural resources within the Upper Uncompahgre Watershed. The UWP exists to help protect the economic, natural, and scenic values of the Upper Uncompahgre River Watershed. The Partnership works to inform and engage all stakeholders and solicits input from diverse interests to ensure collaborative restoration efforts in the watershed. We strive for a healthy river in a thriving community. For more information about the UWP and

current projects, visit www.uncompahgrewatershed.org



The San Miguel Watershed Coalition was formed in 1998 to enable a collaborative forum for all stakeholders to discuss and influence the future of the watershed. The San Miguel Watershed Coalition's purpose is to give the communities and stakeholders in the watershed a voice to direct the future management of watershed resources. Its mission is to advance the ecological health and promote the economic vitality of the watershed through the collaborative efforts of the entire community. Our ultimate goal is to realize a watershed that is healthy in every respect, while offering a sustainable and quality lifestyle for all who live within it. www.sanmiguelwatershed.org



Animas River Stakeholders Group (ARSG) was founded in 1994 as a process to determine appropriate water quality standards for the Upper Animas River Basin. The Upper Animas Watershed has a long history of extensive metal mining as an economic mainstay dating back to the 1870s with major operations ending in 1991. The mission of ARSG is to improve water quality and habitats in the Animas River through collaborative process designed to encourage participation from all interested parties. Participants include mining companies, environmental organizations, and owners, local governments, and state and federal regulatory and land management agencies. animasriverstakeholdersgroup.org



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

The Colorado Division of Reclamation, Mining and Safety (DRMS) is responsible for mineral and energy development, policy, regulation and planning. The division is comprised of the Office of Mined Land Reclamation and the Office of Active and Inactive Mines. DRMS also collaborates with citizen groups, non-profits and industry to conduct mine remediation projects at legacy sites to improve water quality and ecosystem functioning in the watersheds of San Juan Region. mining.state.co.us

Conference Theme

“ Planning for Resiliency ”

A long-range view is necessary to build resilient communities and organizations, especially in today’s economy. Times of plenty make it easy to carry on with business as usual. However, disruptive events can impede operations and hinder progress for many years, shifting resources to recovery efforts and away from fundamental objectives. Realizing that very few disasters are completely unexpected or sudden, but rather predictable potentialities with long-term causes, we can proactively design and implement projects to avoid major setbacks and reduce negative consequences.

In mining and reclamation, disruption is often tied to catastrophic environmental events, price fluctuations, shifting regulatory priorities and reduced funding, as well as human error. The theme for the 2018 San Juan Mining & Reclamation Conference, “Planning for Resiliency”, encourages discussions of how the mining and reclamation community can plan for potential disasters. We seek to learn from the experiences and insights of those with approaches to crisis management that weigh the impacts to society, the economy and the environment. We are interested in discussing best practices and solutions from the perspective of how focusing on this triple bottom line effects project development and long-range planning.

We invite bold and frank conversations about topics that have challenged you, may be considered taboo, or can be uncomfortable to share. Through sharing useful information about these topics, the 8th annual San Juan Mining & Reclamation Conference aims to create a productive forum with helpful takeaways and more innovative projects. We welcome you and hope that you will find many opportunities for sharing and networking.

Remembering Steve Fearn

A couple of weeks ago we lost one of our major participants in bridging the gap between mining and water quality. Steve Fearn passed away at his home in Silverton. Born in Colorado, Steve worked as an engineer in the mining industry most of his life. He began by building power plants in Craig and Hayden, but as he liked to say “coal is a dirty business, I decided to cleanup my act and go into hardrock mining.” In the 70’s, he ran the Idarado mill in Telluride and in the 80’s, he ran a mill for large mine in Indonesia. He was involved in numerous other mining projects throughout the San Juans. Steve was an original and one of the most prominent members of the Animas River Stakeholders Group. He was a dedicated proponent of mining, and felt that mining and protecting water quality were not exclusive. Over the years, he designed and managed several mine remediation projects in San Juan County. As a long-time member of the Southwestern Water Conservation Board, he prodded them to fund local water quality work which they had not done in the past. Always community minded, Steve was very supportive of the Silverton theater group, and served on the San Miguel Power Association, San Juan Historical Society and Colorado Foundation for Water Education boards. Steve’s vast knowledge of mines in San Juan County, his optimism, and willingness to find solutions was infectious to all. He will be missed.

2018 Conference Agenda

Wednesday, May 2, 2018 Opening Events		Mining Museum Cave
4:00 – 5:00 pm	Museum Tour	
5:30 – 7:00	Registration	
5:30 - 8:30	Refreshments and Cash Bar	
6:30 - 8:00	Posters, Speeches on Mining, Reclamation and Resiliency	
Thursday, May 3, 2018 Plenary		Mining Museum
7:00 - 8:00 am	Exhibitor Set Up	
8:00 – 8:30	Registration with Refreshments	
8:30 – 8:50	Welcome and Opening Remarks	Headwaters Alliance
Session I Triple Bottom Line Economics & Resiliency		Mining Museum
8:50 – 9:10 am	Ouray Silver Mines Environmental Initiatives Update	Briana Greer – Solid Geosciences, LLC
9:10 - 9:30	The Next Generation of Reclamation and Closure Standards	Luke Danielson – Sustainable Development Strategies Group
9:30 – 9:50	Colorado Fuel and Iron Company Wagon Wheel Gap Fluorspar Mine	Damon Gibbons - American Mining Foundation, Caretaker of CF&I Wagon Wheel Gap fluorspar Mine
9:50 - 10:10	Lessons Learned at Mine Sites	Wendy Naugle CDPHE and Joy Jenkins - EPA
10:10 - 10:30	BREAK	Refreshments served
Session II Managing Risk & Stakeholder Integration		Mining Museum
10:40 – 11:00am	A Pathway to Walk-Away-30 Year Old Technology to Mitigate Acid Rock Drainage Revisited	James Gusek - Sovereign Consulting, Inc
11:00 – 11:20	Make the Most of What We Have	Casey Davenport - Colorado Watershed Assembly
11:20 – 11:40	Engaging and Educating Youth Through Water Quality Field Studies	Hannah Starbuck - Animas High School
11:40- 12:00	Water Quality Monitoring: Community-based Science	David Robinson - Willow Creek Reclamation
12:00 – 1:30	LUNCH	On Your Own

SESSION III Adaptive Management		Mining Museum
1:30 - 1:50 pm	Sustainable and Environmentally-Friendly Water Treatment Solutions at the Revenue Virginus Mine	Jason Kerstiens – Katie Schumacher Geosyntec Consulting
1:50 - 2:10	A Case Study in Best Practices-SGC's Mining and Reclamation Activities	Steve Lange - Knight Piesold
2:10 - 2:30 pm	Incorporating Water Quality Assessments in Long-Term Planning for Nonpoint Source Mine Reclamation	Ashley Bembenek - UWP
2:30 - 2:50	A Flexible Design at the Captain Jack	Mary Boardman - CDPHE
2:50 - 3:20	BREAK	Refreshments Served
PANEL Planning for Resiliency		
3:30- 4:20	Panel Discussion – Luke Danielson, James Gusek, Wendy Naugle, Dave Robinson and Randy McClure	
4:20-4:30	Closing Remarks	Headwaters Alliance
4:30- 6:30	Poster Session and Networking Party	Conference Steering Committee
Friday, May 4, 2018 Scenario Planning and Tours		Mining Museum
8:30-10:30 am	Scenario Planning – Marcie Bidwell, Guinevere Nelson, Tanya Ishikawa and Elizabeth Stuffings	Mountain Studies Institute, Willow Creek Reclamation Committee, Uncompahgre Watershed Partnership, San Miguel Watershed Coalition
10:30am – 4:00pm	Summitville Tour – Mark Rudolph 1.5 hour drive to site from Creede, 2-4 hour tour – Lunch is included	Meet at the Mining Museum
10:30 am – 4:00 pm	Kerber Creek Tour – Jason Willis and Cary Foulk 1.5 hour drive to site from Creede, 2-4 hour tour – Lunch is included	Meet at the Mining Museum

Presenter & Panelist Biographies

Thursday, May 2, 2018

Welcome and Opening Remarks
Headwater Alliance

Session I: Triple Bottom Line Economics & Resiliency

OURAY SILVER MINES ENVIRONMENTAL INITIATIVES UPDATE

Briana Greer - Solid Geosciences, LLC

briana@solidsolutionsgeosciences.org

Ms. Greer is an environmental consultant specializing in mining geochemistry, water quality sampling and modeling, and mine permitting. Within her 18 years of geochemistry experience are 10 years of direct experience in permitting, construction, operations, and closure of mine sites. Ms. Greer has prepared and executed numerous geochemical materials characterization plans for waste rock, pit lakes, tailings, and construction materials for activity throughout the mine life cycle. She has performed water quality modeling using geochemical software (such as PHREEQC and Geochemist's Workbench) for purposes of prediction of pit lake and waste rock effluent quality, litigation, remediation, and treatment cost estimates. Her work facilitates a strong environmental design basis for engineering and construction. Mining sites that have benefitted from Ms. Greer's expertise are located in Canada, the United States, Cameroon, Colombia, Peru, and Mexico. In addition, she has provided litigation support related to environmental impacts and remediation action plans for brownfields redevelopment.

THE NEXT GENERATION OF RECLAMATION AND CLOSURE STANDARDS

Luke Danielson, President, Sustainable Development Strategies Group

danielson@sdsg.org

Mr. Danielson is an attorney, professor, researcher and consultant on minerals policy, national development strategies, and environmental and social performance in the mining and oil and gas industries. He served two terms on the Colorado Mined Land Reclamation Board. He is known for his work both on international and national levels on minerals policies, and has worked with over a dozen governments, including Mozambique, Chile, Mongolia, Ecuador, Romania, Peru, and the Peoples Republic of China. He was a 2015 inductee into the International Mining Technology Hall of Fame for his contributions to Environmental Management and Stewardship. <http://www.im-halloffame.com/>
Mr. Danielson was Executive Director of the path breaking global Mining Minerals and Sustainable Development Project, a multi-million, multi-year project at the International Institute for Environment and Development in London, where he managed a network of international staff and consultants across several continents, involving hundreds of stakeholders, forums, conferences, and reports. See www.iied.org/mmsd The findings of the MMSD Project established the first work plan and agenda for the International Council on Mining and Metals. He was also the founding Director of the Mining Policy Research Initiative, a project of the International Development Research Centre, which entailed supporting and conducting research on the social, economic and environmental impacts of mining

investment in the 23 countries of Latin America and the Caribbean. He was a member of the International Bar Association committee that developed the Model Mining Development Agreement, www.mmdaproject.org, a tool for governments and investors to develop more stable and equitable mineral development agreements with improved development outcomes.

COLORADO FUEL AND IRON COMPANY WAGON WHEEL GAP FLUORSPAR MINE

Damon Gibbons - American Mining Foundation

Gibbons.damon@gmail.com

Mr. Gibbons lives at the 4UR Ranch and works their Foreman / Head Wrangler. The 4UR acquired the adjoining abandoned CF&I Wagon Wheel Gap Fluorspar Mill and Mine in 1980, and Mr. Gibbons has become the resident historian as well as mill tour guide. He joined the board of the American Mining Foundation recently as they share a common interest in pursuing preservation solutions for historically significant mining resources on private land. Damon and his wife Kiera have three children and volunteer / work for both the Creede Early Learning Center and the Creede School District.

LESSONS LEARNED AT MINES SITES

Wendy Naugle CDPHE State Superfund Project Manager, Colorado Department of Health

Wendy.naugle@state.co.us

Wendy holds a master's degree in Geological Engineering from the Colorado School of Mines, with a minor in Environmental Engineering and is a licensed Professional Engineer. Wendy has been with the State of Colorado for 30 years, working as a State Superfund Project Manager and a Project Manager for the Uranium Mill Tailings Remedial Action Project.

Session II: Managing Risk & Stakeholder Integration

A PATHWAY TO WALK-AWAY – 30 YEAR OLD TECHNOLOGY TO MITIGATE ACID ROCK DRAINAGE REVISITED

James J. Gusek, P.E. , Senior Engineer, Sovereign Consulting, Inc.

jgusek@sovcon.com

Mr. Gusek is a senior engineer with Sovereign Consulting Inc., which he joined in 2013. He graduated from the Colorado School of Mines in 1973 with a B.Sc. in Mining Engineering. He specializes in the design of constructed wetlands for treating water draining from abandoned mines similar to the Gold King mine that turned the Animas River red in August, 2015. Since 1987, his work with acid rock drainage prevention and passive water treatment systems has included dozens of projects throughout the U.S. and internationally. He is a founding member and former president of the Denver Professional Chapter of Engineers Without Borders.

MAKE THE MOST OF WHAT WE HAVE

Casey Davenhill, Executive Director, Colorado Watershed Assembly

casey@coloradowater.org

Casey has over 30 years of accounting experience working for an international accounting firm and numerous small businesses and non-profits as a consultant. Cherry Creek is Casey's home watershed where she has directed the watershed forum: Cherry Creek Stewardship Partners for nearly 20 years. Currently Casey is the Executive Director of the Colorado Watershed Assembly. Casey has a long history of coordination with many important programs and projects that have been facilitated by these two organizations. As a taxpayer, Casey sees the role of non-profits as essential in partnership with agencies and government to promote the role of citizens in the protection of their public resources.

ENGAGING AND EDUCATING YOUTH THROUGH WATER QUALITY FIELD STUDIES

Hannah Starbuck, Animas High School

Hannah.starbuck@animashighschool.com

Hannah is a fourth-year math teacher at Animas High School, a project-based learning charter school in Durango, Colorado. She teaches Pre-Calculus and junior level math. Junior level math consists of studies ranging from Geometry, Algebra, Trigonometry and Statistics. She is originally from Denver and has spent 8 years in Durango. She attended Fort Lewis College and played on the volleyball team and earned her degree in Mathematics. Very shortly after she graduated, she was hired by Animas High School and have had 4 very good years. At the end of this school year, she will be moving to Leysin, Switzerland to teach Mathematics at a boarding school.

WATER QUALITY MONITORING: COMMUNITY -BASED SCIENCE

David Robinson, Volunteer, Willow Creek Reclamation Committee

Mad.tinker.forge@gmail.com

David has a BSME from Colorado State, MS in Systems Theory from AFIT, and PhD from University of Arizona. He retired from the Air Force as an Associate Professor of Aeronautics and Astronautics and retired from Sandia National Labs as a Research Scientist with research focused on predictive analytics. David continues as consultant in cyberwarfare and mathematical analysis and recently opened a small blacksmith forge in Creede.

Session III: Adaptive Management BMP's

SUSTAINABLE AND ENVIRONMENTALLY – FRIENDLY WATER TREATMENT SOLUTIONS AT THE REVENUE VIRGINIUS MINE

Jason Kerstiens - and Katie Schumacher - Geosyntec Consulting

jkerstiens@geosyntec.com

Jason Kerstiens is a Civil and Environmental Engineer with a Master of Science degree from Stanford University. He has 18 years of experience providing water treatment process and design services for

mining, municipal, and government organizations. He is the project manager for the treatability testing and design of the Ouray Silver hybrid passive water treatment system.

Katie Schumacher is a Civil and Environmental Engineer. She completed her undergraduate and graduate studies at the Colorado School of Mines. Katie has been involved with a number of projects, including extensive field support through groundwater and surface water sampling, excavation oversight, and oversight of enhanced in-situ bioremediation injections. Most recently, she has been helping with the design of the hybrid passive treatment system for Ouray Silver Mine.

A CASE STUDY IN BEST PRACTICES -SGC'S MINING AND RECLAMATION ACTIVITIES

Steve Lange - Knight Piesold

slange@knightpiesold.com

Steven Lange is a Senior Project Manager based in Knight Piesold's Denver office. He has over 35 years of experience in all aspects of mining, environmental and aqueous geochemistry, hydrogeology, air quality modeling, and permitting throughout the world. He develops implementable, comprehensive, and cost-effective solutions for client projects.

Steven consults with clients on the development and implementation of characterization programs, geochemical and hydrologic modeling, hazardous waste management methods, regulatory compliance, closure, and assists in the development of programs to define and minimize environmental liability.

INCORPORATING WATER QUALITY ASSESSMENTS IN LONG-TERM PLANNING FOR NONPOINT SOURCE MINE RECLAMATION

Ashley Bembenek, Soil and Water Scientist, Uncompahgre Watershed Partnership

Ashley graduated with Honors from Montana State University, with a degree in soil and water science. For the past eight years, she has provided technical expertise to watershed groups and other organizations in western Colorado. Ashley specializes in water quality data collection, analysis, and reporting; as well as project development and implementation to improve water quality and watershed health. In her free time, she enjoys skiing, biking, and trying not to drown while learning to kayak!
ambembenek@yahoo.com

A FLEXIBLE DESIGN AT THE CAPTAIN JACK

Mary Boardman – CDPHE

Mary.boardman@state.co.us

Mary is the CDPHE Project Manager: Mary has lived in Colorado since she was three years old. She obtained her BA in Chemistry and an MS in Environmental Science from the University of Colorado. She began working for CDPHE in 1994. Mary has worked on several key environmental projects in the state, including the French Gulch site in Breckenridge, the Summitville Mine Superfund Site near South Fork, and the Central City/Clear Creek Superfund Site in Clear Creek and Gilpin counties.

Panelist Presenters Biographies

Randy McClure, Consultant Hard Rock Enterprises

Randy is Creede native. He graduated from Creede High School and earned a B.S. degree in Geology at Colorado State University Pueblo. He was an underground miner at the Bulldog Mine, and spent 16 years in the Creede Mining District doing exploration, predevelopment and reclamation. He worked as the Rio Grande Silver Project Manager from 2010 to 2012 and as the General Manager from 2012 to 2014. He currently works as a geology consultant and spends his free time skiing and mountain biking.

Poster Presentation Biographies

Erin Formanek, Senior Environmental Scientist, CDM Smith

Erin received her B.S. in Environmental Biology/Zoology from Michigan State University and M.S. in Environmental Science at the University of Colorado. Ms. Formanek has a diverse background in risk assessment and toxicology. She has extensive experience in both human health and ecological risk assessment within the U.S. Environmental Protection Agency Superfund program and the National Park Service Contaminated Sites Program. She has experience evaluating a wide range of contaminants of concern including asbestos, heavy metals, herbicides, pesticides, radionuclides, dioxins/furans/polychlorinated biphenyls, polycyclic aromatic hydrocarbons, semi-volatile organic compounds, and volatile organic compounds.

Tom Schillaci

In 2001, Tom met Dr. Robert Blair, a retired Geology professor at Fort Lewis College in Durango, Colorado. Dr. Blair was looking to start the Center for Mountain Studies, and Tom offered to do digital photos and video for the research projects. While there was no money to hire him then, Dr. Blair did point Tom to Mountain Film Festival in Telluride, Colorado and said, "If you want to help an environmental group, go see the Animas River Stakeholders Group in Silverton." From that experience Tom responded "Mountain Film Festival blew me away, not just with the films on the screen, but by being in the same room and at the same tables as the explorers, scientists, anthropologists, educators and philosophers. I was so inspired to return to Denver on a Tuesday, bought a video camera on Wednesday, and was in Silverton that Friday, shooting my first environmental video." Over the years, Tom has done short videos to highlight collaborative projects to improve water quality in historic mining districts in southwest Colorado. In addition to the Animas River Stakeholders Group, he also worked with Willow Creek Reclamation Committee, Mountain Studies Institute, and Animas Watershed Partnership. Check out Tom's mining videos: "Act of Congress: Good Samaritans & Draining Mines", "Acid Mine Nation." "Acid Mine Nation," Episode 1 - My Journey To the Gold King Spill and Episode 2 - My View of the Crazy Aftermath. <https://www.youtube.com/user/tomsproducer>

This conference was made possible by our generous supporters:

Participating agencies include:

Environmental Protection Agency;
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Colorado Division of Reclamation Mining and Safety;
Colorado Department of Public Health and Environment;

Friends and Supporters:

Ladies Aide Society of Creede
Creede Underground Mining Museum
Creede Repertory Theater

Special thanks to Anthony Poconi of Humore.us for assisting with the creative event planning, you made it humore.us Humore.us Events will serve as game host, emcee and moderator for the conference. Before becoming funny he served as Director for the Coal Creek Watershed Coalition for seven years in Crested Butte - www.humor.us



THANK YOU BEVERAGE SPONSOR:

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Creede Area Map



Field Tours

All field tours will leave from the Mining Museum

Field Tours – Descriptions and Tour Leaders

Kerber Creek Tour with Jason Willis and Cary Foulk jwillis@tu.org.

Depending on participants, the tour will begin in the upper watershed at the Rawley 12 bulkhead site where tour leaders will describe the history of the Bonanza Mining district and reclamation efforts that began in the 1990's. The installation of the bulkhead will be described, as well as the relocation of over 100,000 cubic yards of mine waste to a repository lower in the watershed. Before and after photos of the Rawley 12 site will help participants visualize past conditions. The tour will then either move to the Cocomongo Mill on upper Kerber Creek, or up to the Minnie Lynch Mine where three years of reclamation work has recently been completed in partnership with the US Forest Service. Following the upper mine sites, the tour will stop two lower watershed sites; one completed in the fall of 2012 and the other completed in 2015/16. Both of these sites are on private property and will provide examples of stream restoration, floodplain stabilization, and in-situ phytostabilization of mine tailings specific to this project. The tour will give a great representation of the Kerber Creek watershed, as well as the type of partnerships, funding, challenges, and technical approach necessary to complete a successful long-term mine cleanup project. NOTE: Bag lunch will be provided from the Villa Grove Trade compliments of Trout Unlimited. High clearance AWD vehicles recommended for some of the upper watershed sites.

Directions to Kerber Creek Tour

Follow 149 out Creede to Highway 160 in South Fork. Turn left onto US-160 and follow to Del Norte. In Del Norte, turn left at the stop light, this is Highway 112/Oak Street. Follow 112 until you reach the flashing red light. Take a left onto Highway 285 and follow this road till you enter Villa Grove. After you leave the town of Villa Grove, your first left is County Road LL56, take this left and look for a large parking lot. Park here and meet Jason and Cary.

Summitville Tour with Mark Rudolph - mark.rudolph@state.co.us

The Summitville mine site, located West of Del Norte, Colorado, was a gold mining site dating back to the 1870s. Open pit mining of gold, copper, and silver started in the 1980s, impacting nearby rivers and soil. This informal tour will be open for questions and answers from the top of the site. It will cover geology, hydrogeology, historical, and modern day mining up to when it was declared a National Priorities Listed site. It will also cover the timeline of the site cleanup and review historical aerial photos in addition to assessing on-site current conditions. Lessons learned and future plans for the site will also be covered. This field trip will finish off with full display of water treatment practices and a tour of the two historical townsites. This will include learning more of the site history, and visit some of the historical buildings dating back to the early 1880's.

Evaluation – *Please complete this survey*

We would like to thank you for attending the San Juan Mining and Reclamation Conference. We value your thoughts and feedback so that we may continually make improvements on the conference and provide detailed reporting to our sponsors. Please take a few moments to complete the following evaluation.

Name (optional): _____ Community Role: _____

Circle one:

Participant | Sponsor | Presenter

1. How did you find out about the conference?
2. How does this conference benefit you and/or your community?
3. What was the most useful workshop, tour and/or presentation for you? Why?
4. What was the least useful workshop, tour, and/or presentation for you? Why?
5. Are there audiences you think should participate in this conference that you didn't see this year? If so, who?
6. For 2019, what suggestions for improvement or recommendations for content do you have?
7. What topics would you like to see covered in future conferences?

Please rate the following facets of the conference (5=Very Good 1=Very Poor) and circle the number that represents your opinion of the conference's ability to accomplish the following goals:

	Very Good	Good	Neutral	Poor	Very Poor
1) Educate participants on:					
a. the science and policy of mining	5	4	3	2	1
b. remediation of mine lands and activities addressing water quality impairments	5	4	3	2	1
2) Facilitate informed discussion among diverse presenters and stakeholders	5	4	3	2	1
3) Spark dialogue about the benefits legacy and operational mines can bring to communities	5	4	3	2	1
4) Expand knowledge and resources of stakeholders to actively participate in remediation/restoration of their mining communities	5	4	3	2	1

Please circle the number that represents your opinion of the conference's performance in the following areas:

	Very Good	Good	Neutral	Poor	Very Poor
Venue	5	4	3	2	1
Food	5	4	3	2	1
Field Tour	5	4	3	2	1
Presentation Topics	5	4	3	2	1
Length of Presentations	5	4	3	2	1
Quality of Panel Session	5	4	3	2	1
Posters & Exhibits Session	5	4	3	2	1

Additional Comments: