

WELCOME TO THE SIXTH ANNUAL SAN JUAN MINING CONFERENCE

August 3-5, 2016
Durango and Silverton, Colorado

“Developing innovative responses to the legacy of mining”



This conference was made possible by our generous sponsors:



The 2016 Conference is presented by:



The Willow Creek Reclamation Committee's mission is to improve water quality and habitat, reduce flood risks, reclaim areas impacted by mining, and preserve historic structures in the Willow Creek watershed in ways that are practical, cost effective, and beneficial to the economic sustainability of the Creede community. The Willow Creek Project is a testimony to the grit and determination of a group of citizens who wanted to retain the independence and self-determination to decide how to clean up a small mountain stream that flows through their town. Their spirit and resolve have drawn a wealth of outside resources to their cause, and have allowed them to succeed beyond their wildest imagination. For more information, visit us at www.willowcreede.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 the Uncompahgre Watershed in Ouray County, CO. Our mission is to protect and restore the Upper Uncompahgre River Watershed through coordinated community and agency efforts and to build an informed and engaged citizenry on watershed issues. We strive for a healthy river in a thriving community. If you would like more information about the UWP and information on current projects please visit www.uncompahgrewatershed.org



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 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



The Colorado Division of Reclamation, Mining and Safety 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.

<http://mining.state.co.us>

Animas River Community Forum

In response to the Gold King Mine spill incident, the Animas River Community Forum came together. ***The Forum's role is*** sharing and disseminating information related to the spill and its recovery. The forum works on issues that have agreement among Forum Partners. The group is looking to the future. Our purpose is to promote communication, coordination and collaborative action; foster public confidence; support resiliency in our communities; and enhance planning, improved public safety and health for the future; all while honoring the institutional authorities and decision making of governmental and community organizations. <http://animasrivercommunity.org/>



The 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 1870's with major operations ending in 1991. The mission of ARSG is to improve water quality and habitats in the Animas River through a collaborative process designed to encourage participation from all interested parties. Participants include mining companies, environmental organizations, land owners, local governmental entities, and state and federal regulatory and land management agencies. <http://animasriverstakeholdersgroup.org/>

2016 San Juan Mining Conference Agenda

Wednesday, August 3	Animas River Celebration	Powerhouse Science Center
5:30-8 pm	Social Hour, cash bar and tapas	
6:15-6:45 pm	Voices from the Community- One Year Later: how are we doing?	Animas River Community Forum
	Live music, refreshments, door prizes, video documentary showing	
7:00 pm	Acid Mine Nation Film preview	Film maker: Tom Schillaci
Thursday, August 4	Welcome	Marcie Bidwell, Mountain Studies Institute
8:30- 8:45am	Welcome by San Juan Mining & Reclamation (SJMRC) Committee	SJMRC Committee
8:45am – 9:05am	Community Welcome	Gwen Lachelt, La Plata County Commissioner and Christina Rinderle, City of Durango Mayor
SESSION I	Current State of our Watersheds	Tanya Ishikawa, Uncompahgre Watershed Partnership
9:05am – 9:20am	Uncompahgre Watershed	Bill Coughlin, Western Stream Works, Jeff Litteral, Colorado DRMS
9:20am – 9:35am	Animas Watershed	Ann Oliver, Animas Watershed Partnership
9:35am – 9:50am	Rio Grande Watershed	Heather Dutton, San Luis Water Conservancy District
9:50am – 10:05am	San Miguel Watershed	Randy Barnes, San Miguel Watershed Coalition
10:05 am-10:20 am	Cross watershed discussion	See above
10:20 am- 10:40 am	<i>Break, Refreshments & Exhibit Session</i>	
SESSION II	Learning from the Gold King Mine Spill	Shannon Manfredi, Animas River Community Forum
10:40am – 11:00am	The Gold King Spill-How Did We Get Here?	Peter Butler, Animas River Stakeholders Group
11:00am – 11:20am	The Day the Animas River Turned Orange- a coordinated response	Butch Knowton, La Plata County Emergency Management
11:20am – 11:40am	Looking Below the Surface- monitoring river health	Curtis Hartenstein, Southern Ute Indian Tribe & Scott Roberts, Mountain Studies Institute
11:40am – 12:00 am	Looking into the Future: Bonita Peak Mining District Superfund Site	Rebecca Thomas, EPA Bonita Peak Mining District Team

LUNCH KEYNOTE	Key Note Speaker	Tanya Ishikawa, Uncompahgre Watershed Partnership
12:00 pm - 1:20 pm	<i>Lunch will be served at the DoubleTree Hotel</i>	
12:25pm-12:45pm	Unintended Consequences Related to Abandoned Mines, Practical Limitations on Numerical Models and Stakeholder Expectations	Terry Braun, P.E., Principal GeoEnvironmental SRK Consulting
12:45pm-1:20pm	<i>Break, Refreshments & Exhibit Session</i>	
SESSION III	Getting to Action: Monitoring and Tools to Support Actionable Results	Guinevere Nelson, Willow Creek Reclamation Committee
1:20pm – 1:40pm	The Leavenworth Creek Restoration Project	Jason Willis, Trout Unlimited, Mine Restoration Project Manager
1:40pm – 2:00pm	The 303 (d) Assessment and Measureable Results Program	Skip Feeney, CO Water Quality Control Division
2:00pm – 2:20pm	Developing a Comprehensive Statewide Abandoned Mine Land Data Hub	Peter Barkmann, Colorado Geological Survey
2:20pm – 2:40pm	Good Samaritan- Unblocking the Road Block	Mark Levin, Mining & Environmental Services
2:40pm – 3:00pm	<i>Break, Refreshments & Exhibit Session</i>	
SESSION IV	Developing Innovative Responses to the Legacy of Mining: Tools in the Toolbox	Marc Dionne, Amec Foster Wheeler
3:00pm - 3:20pm	Addressing the Ute Ulay Mine with the State of Colorado Tools for Reclamation	Fonda Apostolopoulos, Colorado Department of Public Health and Environment
3:20pm- 3:40pm	Successful Mine Plugging and Reclamation in the Bonanza Mining District	Cary Foulk, Integrated Geo Solutions Inc. and Bence V. Close, Close Consulting Group, L.L.C.
3:40pm- 4:00pm	Environmental Stewardship in the 21st Century-A Miner's Approach	Brianna Greer, Solid Solution GeoSciences LLC and Brian Briggs, Ouray Silver Mines
PANEL DISCUSSION	Bringing it All Together- themes of the day	Rory Cowie, Mountain Studies Institute
4:00pm - 4:40pm	Panel Discussion on Innovation in mining, water quality, and reclamation	Chris Hassel, Harrison Western; Peter Butler, Animas River Stakeholder Group; Brianna Greer-Solid Solution GeoSciences; Brian Briggs, Ouray Silver Mines; Guinevere Nelson, Willow Creek Reclamation Committee
4:40pm - 4:50pm	Closing Remarks and Friday Logistics	Marcie Bidwell, MSI and SJMRC Steering Committee
5:00 pm +	<i>Happy Hour- Double Tree River Rat Café on the Animas River</i>	Cash bar

Speaker Abstracts

Thursday August 4th

Session I: Current State of our Watersheds

1. UNCOMPAHGRE WATERSHED

Jeff Litteral, Colorado Division of Reclamation and Mining Safety
Bill Coughlin: President/Owner Western Stream Works, LLC

The Uncompahgre Watershed Partnership (UWP) received a Non-Point Source 319 grant to conduct three mine related remediation projects in 2014. Two of those projects, the Michael Breen in the Uncompahgre River drainage and the Vernon Mine in Gray Copper Gulch were completed in 2014 and 2015, respectively. The Atlas Mill was the third and final project started in June 2016. The bank stabilization project involved rehabilitation of Sneffels Creek to prevent a braid of the stream from flowing through and eroding the mine tailings in to the waterway. The project was a collaboration between the UWP, Ouray Silver Mines/Revenue Mine, US Forest Service/GMUG, DRMS and Western Stream Works. Bill Coughlin, owner of Western Stream Works will present an update on the construction thus far and remaining work to be completed.

2. ANIMAS WATERSHED

Ann Oliver, Animas Watershed Partnership, Coordinator

The Animas Watershed Partnership, a collaborative community-based watershed group since 2002, engages partners across the whole Animas River Watershed. Addressing water quality in the Animas River is complicated by the complexity jurisdictional boundaries within the watershed. As it flows from its headwaters to its confluence with the San Juan River in New Mexico, the river passes through three counties, three distinct state and tribal jurisdictions, three EPA jurisdictions, four municipalities, as well as public and private lands. Historically, mining was a significant economic activity in the upper portions of the Animas River watershed, upstream of Silverton. In the upper Animas River, acidic runoff and groundwater containing high levels of metals come from both natural and anthropogenic sources. However, as the Animas River nears Durango, metal concentrations become diluted and water chemistry changes lessening the impact of metal concentrations on aquatic life. In NM, the Animas is impaired for *E. coli* and nutrient levels with TMDLs in place. AWP and partners have identified addressing nutrient and *E.coli* sources as priorities, and are taking action to implement BMPs.

3. RIO GRANDE WATERSHED

Heather Dutton, Manager, San Luis Valley Water Conservancy District

The Rio Grande Basin encompasses 7,500 square miles in South Central Colorado. The Rio Grande provides water for three states and Mexico before reaching the Gulf of Mexico. Currently, the residents of the Upper Rio Grande are facing challenges associated with the effects of historic mining, the changing condition of headwaters forests, groundwater sustainability, and balancing diverse needs with water supply. There are many enthusiastic organizations working through robust partnerships to address these issues and improve the water quality, riparian and aquatic habitat, and upland ecosystems in the Rio Grande Basin.

4. SAN MIGUEL WATERSHED

Randy Barns, Town Manager of Ophir, will discuss two particular reclamation projects that are occurring in the Ophir area. The Caribou mine tailings clean-up is an EPA project slated to begin in August of 2016. The primary goal of the project is to relocate the mine's tailings from the banks of the Howard Fork to an on-site repository. In 2017, work will commence on the Carbonero mine adit. The adit will be opened, cleared and a bulkhead will be installed.

Session II: Learning from the Gold King Mine Spill

1. HOW DID WE GET HERE?

Peter Butler, Animas River Stakeholders Group

Peter Butler will share an overview of the Animas River watershed and reclamation in the basin from his perspective of twenty-two years of involvement in mine remediation in the Upper Animas River Basin. He will discuss the history of remediation and the resulting changes in water quality and aquatic life that have occurred over time. Peter will provide context as to the rationale and reasoning that led to U.S. EPA working on the Gold King Mine in the first place.

2. THE DAY THE ANIMAS RIVER TURNED ORANGE- A COORDINATED RESPONSE

Butch Knowton, La Plata County Emergency Management

Butch Knowlton will highlight the Office of Emergency Management's (OEM) response to the Gold King Spill in 2015. The presentation will highlight what information the OEM knew and how they informed the public.

3. LOOKING BELOW THE SURFACE- MONITORING RIVER HEALTH

Scott Roberts, Mountain Studies Institute

Curtis Hartenstine, Southern Ute Indian Tribe

Mountain Studies Institute (MSI) and the Southern Ute Tribe (SUIT) are unique in that these organizations collected water quality and aquatic life metrics before, during and after the Gold King

Mine spill. Scott and Curtis will discuss the macroinvertebrate and fish population response to the Gold King Release in the lower Animas River watershed. Historical and recent population data will be discussed as well as long term monitoring.

4. LOOKING INTO THE FUTURE: BONITA PEAK MINING DISTRICT SUPERFUND SITE- WHAT WILL IT DO AND NOT DO

Rebecca Thomas, EPA Bonita Peak Mining District

Rebecca Thomas will focus on EPA's current and planned actions for the Bonita Peak Mining District Superfund project. EPA is collecting data to characterize the nature and extent of contamination and answer questions about ecological risk, human health risk, mining district hydrology, and cultural resources. Once more is understood about the mining district, work will begin to remediate the sources of contamination and improve water quality throughout the watershed.

Lunch Keynote Speaker

Terry Braun, P.E., Principal Consultant at SRK Consulting

Terry will talk about unintended consequences relative to abandoned underground mines with a focus on the practical limitations of numerical models and stakeholder expectations. The talk will discuss the scale of the problem and look at numerical methods to address groundwater, geochemistry, and water and load balancing. A case study will be presented on underground mine re-flooding.

Session III: Getting to Action: Monitoring and Tools to Support Actionable Results

1. THE LEVENWORTH CREEK RESTORATION PROJECT

Jason Willis, Mine Restoration Project Manager, Trout Unlimited

The Leavenworth Creek Restoration Project (LCRP) is located in the Upper Clear Creek watershed along the east side of the Continental Divide. The project site is approximately six miles southwest of Georgetown Colorado. Leavenworth Creek has historically exceeded state water quality standards for zinc and lead with the recent addition of copper with regards to non-attainment of the aquatic life use standard. The Waldorf Mine dispersed tailings section of the project was completed in the fall of 2015 in a collaborative effort between Trout Unlimited (TU), U.S. Forest Service (USFS), Freeport McMoRan, National Forest Foundation (NFF), Division of Reclamation Mining and Safety (DRMS), and Georgetown Historical Society. By leveraging resources and technical expertise, TU was able to exceed the original goals and objectives of the project by completing construction of 0.47 miles of locally harvested riprap channel, removal and relocation of 5,550 cubic yards of mine tailings from the floodplain to on-site

repositories, re-vegetation of floodplain and repository soils, and several hundred feet of wetland construction at the bottom of the project area.

2. THE 303 (d) ASSESSMENT AND MEASURABLE RESULTS PROGRAM

Skip Feeney, Water Quality Scientist, Colorado Department of Public Health and Environment, Water Quality Control Division

The Colorado Water Quality Control Division is required under the Clean Water Act Section 303(d) to develop lists of water bodies not meeting water quality standards. The EPA must receive an updated list every two years. The list of impaired waters is developed through a stakeholder process culminating with a rulemaking hearing by the Colorado Water Quality Control Commission. The presentation will provide an overview of the process and timings of key components for the San Juan basin. Skip Feeney will also provide an overview of the division's Measurable Results program. This program has been tasked with measuring the water quality impacts of point and nonpoint source pollution control activities. This information supports the planning and prioritization of resources to achieve the best possible water quality benefit for the state. This presentation will describe active projects and share water quality impact results from a completed restoration project.

3. DEVELOPING A COMPREHENSIVE STATEWIDE ABANDONED MINE LAND DATA HUB

Peter Barkmann and Michael O'Keeffe, Colorado Geological Survey, Colorado School of Mines

By some estimates, there are well over 20,000 abandoned mine features in Colorado. Abandoned mines pose physical safety hazards and impact human health and the environment. More than 1,800 stream miles in Colorado are potentially impaired by abandoned mines. Several federal and state agencies collect abandoned mine information and store this information in their own databases. This makes it difficult to develop a clear statewide picture of the abandoned mine land impacts and risks in Colorado. The Colorado Geological Survey (CGS) is developing an Abandoned Mine Land (AML) data hub that will provide access to statewide AML information from multiple sources such as; the general location, types of features, agency involvement, status of restoration efforts, and potentially the prioritization of AML sites for restoration. The AML data hub will bring existing AML inventories into a centralized GIS platform to facilitate the sharing of data with state and federal agencies, drinking water suppliers and the general public. It will also help in building collaborative relationships between agencies and stakeholder groups in restoration efforts.

4. GOOD SAMARITAN- UNBLOCKING THE ROAD BLOCK

Mark Levin, P.E., Mining & Environmental Services

Mark Levin will discuss how local governments and NGOs interested in improving water quality, and private companies interested in either resource or land development are all deterred from involvement with inactive mining properties with water discharges, due to potential Clean Water Act and Superfund liability associated with existing mine drainage. The talk will also discuss how over the past few decades, parties with various interests have debated "Good Samaritan" amendments to the

Clean Water Act without any resolution. Explanation of the legal framework creating formidable barriers to mineral exploration and re-development in Colorado will also be discussed.

Session IV: Developing Innovative Responses to the legacy of mining: tools in the tool box

1. TOOLS IN THE COLORADO STATE TOOLBOX

Fonda Apostolopoulos, Colorado Department of Health and Environment

In this presentation we will talk about the state tools available to help assist mine land owners on how to get their properties remediated. We will go over the state's Voluntary Cleanup program, our Targeted Brownfield Assessments program, our 1306 program, Brownfield Tax Credits, and the Brownfields Revolving Loan Program. We will talk about who can qualify for each program and how we can work together to help you achieve your goals.

2. SUCCESSFUL MINE PLUGGING AND RECLAMATION IN THE BONANZA MINING DISTRICT

Cary Foulk, P.G., Integrated GeoSolutions Inc., Steamboat Springs, Colorado

Bence V. Close, P.E., Close Consulting Group, L.L.C., Windsor, Colorado

The Bonanza Mining District, located in the upper Kerber Creek watershed in the northeastern San Juan Mountains of Colorado, was mined for gold, silver, lead, copper and zinc from the 1880s through the late 1960s. In the early 1990s, the District was evaluated for potential inclusion on the National Priorities List (NPL) as a Superfund site. This was avoided through the formation of the Bonanza Mining District Group (Bonanza Group) consisting of private parties with historical involvement in the District, and development of innovative agreements for proactive cleanup. The innovative process resulted in highly expedited field work, with most of the work funded by the private parties and performed in cooperation with the Colorado Department of Public Health and Environment (CDPHE), the U.S. Forest Service (USFS), and U.S. Environmental Protection Agency (USEPA).

This presentation summarizes the remediation performed by the private parties, including the safe release of mine water held behind natural collapses and the successful mine plugging. The project demonstrates how addressing the major metal loading sources, followed by stream and riparian reclamation and then natural recovery, can lead to rapid restoration of aquatic life in mine-impacted watersheds.

3. ENVIRONMENTAL STEWARDSHIP IN THE 21ST CENTURY- A MINERS APPROACH

Brianna Greer, Solid Solution GeoSciences LLC

Brian K. Briggs, P.E., COO, Ouray Silver Mines

Ouray Silver Mines Inc.'s is bringing the historic Revenue-Viriginus back into production with a focus on community engagement and environmental protection. Ouray Silver Mines' strong commitment to

environmental protection is demonstrated through the recently permitted passive treatment system for adit discharge that will function during operations and closure.

Panel Discussion: What are our goals going forward? How do we get there?

PETER BUTLER, Animas River Stakeholders Group

Peter Butler has been involved in Colorado water issues in many different capacities for over thirty years. He has been working with the Animas River Stakeholders Group (ARSG) on abandoned mine remediation and improving water quality since the group's inception twenty-two years ago and is currently one of the group's co-coordinators. Peter has a bachelor's degree in physics from Colorado College, a master's degree in economics from the University of Colorado, and a Ph.D. in Natural Resource Policy from the University of Michigan. His Ph.D. is a combination of economics, water law, hydrology, and water quality management. He served on the Colorado Water Quality Control Commission for nine years, with three years as chair. In addition, he has been chair of the La Plata County Water Policy Advisory Commission and president of the Lake Durango Water Authority.

CHRIS HASSEL, Harrison Western

Mr. Hassel is President and Chief Executive Officer of Harrison Western Construction Corporation, Inc. Prior to joining Harrison Western, Mr. Hassel was associated with Arapahoe Utilities & Infrastructure Inc. as Vice President of Operations; Garney Construction as a Senior Project Manager; and Barbarossa and Sons, Inc. in Minneapolis, Minnesota as Project Manager. His construction responsibilities with all three firms centered on business development and project management of complicated heavy civil, industrial, underground and tunneling construction. He earned a B.S. Degree in Political Science with an emphasis on Business Administration/Constitutional Law from St. Johns University in Minnesota

BRIANNA GREER, Solid Solutions Geosciences, LLC

Briana Greer is an environmental consultant specializing in mining geochemistry, water quality sampling and modeling, and mine permitting. She has 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 in Canada, the United States, Cameroon, Colombia, Peru, the Philippines, and Mexico have benefited from Ms. Greer's expertise.

BRIAN K. BRIGGS, P.E., COO, Ouray Silver Mines

Mr. Briggs is a Principal Engineer with SRK in Colorado and Wyoming with 30 years of mining industry experience in both underground and surface mine development and production. His expertise includes design, project development and evaluation, financial analysis, and environmental compliance. Mr. Briggs received a BS degree in Mining Engineering and a MS in Agricultural Engineering from the University of Wyoming. He is a 6th generation mining engineer from Ouray, Colorado.

GUINEVERE NELSON, Watershed Coordinator, Willow Creek Reclamation Committee

Guinevere works with the WCRC to secure funds and manage projects that implement best management practices to address water quality impairments caused by nonpoint sources of pollution from legacy mining. Guinevere is also working on a graduate degree in Environmental Management with a focus on providing information about the human and environmental story of change in the Willow Creek watershed. Her work will benefit other watershed groups in the region to help disseminate knowledge on the successes and lessons learned from reclamation work.

Field Tour

Friday August 5th

Friday, August 5	Silverton Area	
8:00- 8:30	Meet at the Double Tree Parking Lot to carpool	
8:30-10:00	Drive to Silverton- Meet at Silverton Visitor Center (restrooms available)	<i>*Note- if more than 40 people register, we will do two groups</i>
10:00-12:30	Mineral Creek- Kohler, Carbon Lakes, Growler, Brooklyn, and Browns Gulch mines	Kirsten Brown, CO Department of Reclamation, Mining and Safety
12:30-1:30	Brown Bag Lunch- Mayflower Mill and Tailings, Sunnyside Gold	Bev Rich, San Juan County Historical Society Larry Perino, Sunnyside Gold Corporation
1:30-3:30	Cement Creek- Elk Tunnel, Gladstone District, and Red and Bonita mines	Peter Butler, Animas River Stakeholders Group
3:30-4:30	Return to Silverton and Durango	

KIRSTIN BROWN, COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY
Reclamation Specialist/Geologist

Kirstin Brown is a geologist with the Colorado Division of Reclamation, Mining and Safety, Inactive Mine Program. She has 14 years of experience in mine reclamation. Her work includes safeguarding abandoned mine sites to protect human safety, water quality projects and investigations, underground mine investigations and underground construction projects, three dimensional mapping, and coal mine fires. Kirsten will provide information and background for efforts in the Mineral Creek drainage to improve water quality, including the Kohler Mine closure and bulkhead, restoration of the Carbon Lakes mine site and riparian area, and the Brooklyn Mine.

PETER BUTLER, ANIMAS RIVER STAKEHOLDERS GROUP
Animas River Stakeholders Group Co-Coordinator

See bio above

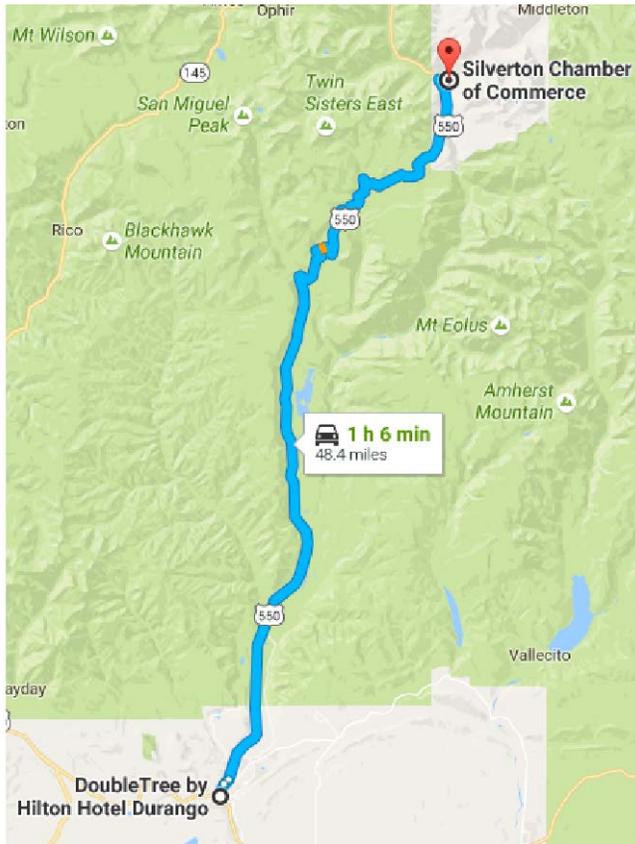
BEVERLY RICH, SAN JUAN HISTORICAL SOCIETY
President of the Board, Preservationist

Beverly Orr Rich is a Silverton native, whose father worked at the Mayflower Mill and the Sunnyside mine. She served as San Juan County Treasurer for 25 years until she retired in 2015. She is the San Juan County Historical Society Board President. Over the years, the Society has been instrumental in restoring and preserving many iconic buildings in San Juan County, including Animas Forks townsite, Old One Hundred Boarding House, Caledonian Mine Boarding House, and San Juan County Jail. Beverly was born and raised in San Juan County. Beverly will offer a tour of the Shenandoah- Dives/Mayflower Mill, a National Historic Landmark, that stands as the nations best preserved hard-rock mining flotation mill. Beverly lives in Silverton with her dog, Annie.

LARRY PERINO, SUNNYSIDE GOLD CORPORATION
Reclamation Manager

Larry Perino is the Reclamation Manager for Sunnyside Gold Corporation in Silverton, CO.

Driving and Meeting Point Maps



Evaluation

We would like to thank you for attending the fourth annual San Juan Mining 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 2017, 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 these areas:

	Very Good	Good	Neutral	Poor	Very Poor
Venue	5	4	3	2	1
Food	5	4	3	2	1
Workshop Topics	5	4	3	2	1
Presentation Topics	5	4	3	2	1
Length of Presentations	5	4	3	2	1
Quality of Panel Sessions	5	4	3	2	1
Poster Session	5	4	3	2	1

Additional Comments: