



## CALL FOR ABSTRACTS: PRESENTATIONS & DEMONSTRATIONS

2018 Silverton Innovation Expo

### **Supporting the Evolution of Reclamation & Mining in the Rocky Mountain West Hosted by Mountain Studies Institute**

August 28 – 30, 2018

Kendall Mountain Center, 1 Kendall Place, Silverton, Colorado

Addressing abandoned and draining mines is a highly complex social and environmental problem that demands an integrated, holistic approach. To succeed, we must pivot from a practice of isolated improvements to one that recognizes the advantages of collaboration, innovation, adaptive management, business perspectives, and solution-driven approaches. The designation of the Bonita Peak Mining District Superfund Site presents an opportunity to catalyze a science-based approach to innovation, mobilize community and business development in Silverton, and demonstrate the benefits of private-public partnerships to provide for safe water quality and improved economic opportunity for surrounding communities.

To this end, Mountain Studies Institute and our partners developed the concept for and launched the inaugural Silverton Innovation Expo in 2017. Now in its second year, the Innovation Expo will offer updates and advancements based on priorities defined by the inaugural Innovation Expo.

In 2018, we will push boundaries and barriers to innovation through exploring issues and addressing challenges defined in 2017. Like the first year, this unique Expo will be a meeting of the minds, bringing together industry representatives, businesses, government agencies, scientists, nonprofits and citizens to explore the need and opportunities for innovation through expert presentations, networking opportunities, poster sessions, trainings, and field tours of active reclamation sites.

Priorities defined by participants of the first Expo:

- **Showcase** the potential for Innovation and technology by pursuing a systems approach to accelerating business.
- **Offer a Boot camp and support for businesses** that addresses how to advance ideas from bench test to early state to market
- **Establish clear guidelines** testing and evaluation
- **Address liability and existing tools** for innovation acceleration
- **Network** time and space for innovators, industry representatives, scientists, creators and customers
- **Train future generation** and develop the talent pool
- **Facilitate access to sites** for companies and researchers

### **OPPORTUNITIES FOR PARTICIPATION**

The 2018 Innovation Expo offers unprecedented opportunities to engage your targeted audience and deliver on your marketing objectives with a more dynamic and interactive presence. We invite companies and partners to present, demonstrate their product(s), sponsor, and exhibit at the event. For information on sponsorship and exhibitor opportunities including custom events, please visit [www.mountainstudies.org/expo](http://www.mountainstudies.org/expo).



## THE AUDIENCE

The first Innovation Expo conference took place in August of 2017, and – advertised only through word of mouth— was attended by over 75 participants representing delegates from Colorado, Washington, Utah, Oregon, and Norway. Sectors represented included businesses, mining industry, consultants, community members, scientists, engineers, start-ups, venture capital, accelerators, and local, regional, state and federal agencies. We expect the attendance to increase and spread in geography and numbers. This year, the Expo Committee has invited mining executives, venture capital, and agency personnel across a five-state region to attend. While other conferences or expos may be larger, this event is intentionally targeting pioneers, early adopters, and those on the leading edge of technology and innovation to a targeted conversation to advance innovation in remediation.

THEME	SOCIAL	TECHNOLOGY	ENVIRONMENTAL	BUSINESS ECOSYSTEM	POLICY & PRACTICE
topics	Water as value	Advances in technology, characterization, and modeling	Water & Waste: management in mountain areas	Advancing Innovation	Pathways to Innovation
sub-topic	Water quality for water use	Water management in mountain areas	Addressing acid drainage at its source	Incentives to get more ideas moving	Legal strategies without Good Samaritan
sub-topic	Fate of legacy and post-closure water	Real-time characterization	Breaking the chain of acid creation	Support for Ideas: moving from bench-test to start up to market	Approval Roadmap: Bench test to Market
sub-topic	How society and stakeholders value water	Modeling the future	Water optimization	Articulating the challenge: advancing the appropriate technologies	On-site testing: opportunities within CERCLA/Superfund
sub-topic	Watershed approaches	Proven vs emerging technologies	Moving to Net Zero-minimizing inputs to maximal benefit	Connecting the dots: establishing partnerships to fuel advancement	
sub-topic	Mitigating risks to water and society	Optimizing water treatment- beyond the treatment plant	One man’s waste is another man’s.... : from waste to product		
sub-topic	Water and social license to operate	Systems approach-advancing understanding	Waste mitigation and minimization		

In an effort to further the conversation launched at the inaugural Innovation Expo, the agenda this year provides ample opportunities for demonstration of the technologies and science, as well as relevant tools and updates for navigating legal hurdles. Last year we identified potential economic opportunities associated with mine reclamation, and this year, we'll provide tools that move those ideas to market and strengthen businesses.



## IMPORTANT DATES

DEMONSTRATION DEADLINES	PRESENTATIONS & POSTERS DEADLINES
Submission due: July 1, 2018	Submission due: July 10, 2018
Demonstrations notification: July 15, 2018	Demonstrations notification: July 15, 2018

If you are uncertain whether your presentation idea fits with these topics or you have any questions related to this form, contact Page Buono at [page@mountainstudies.org](mailto:page@mountainstudies.org).

For more information on the Innovation Expo, please visit [www.mountainstudies.org/expo](http://www.mountainstudies.org/expo).

Please submit all abstracts to Page Buono, [page@mountainstudies.org](mailto:page@mountainstudies.org), or call with questions at 970-387-5161.

## ABSTRACT GUIDELINES FOR PRESENTATIONS, POSTERS & DISCUSSIONS

The Innovation Expo committee invites abstracts for talks, posters, and roundtable discussions to support the five themes of this year's event. Please submit all information contained in the form (last page), including your abstract, by July 10, 2018 at 5 p.m. MST. Abstract titles are limited to 12 words and abstract descriptions should be no more than 250 words. We welcome the submission of abstracts for oral presentations (20 minutes), posters (up to 42" x 60"), and topics for roundtable discussions ( $\leq$  12 person break-out groups). We will balance content contributed by industry, government, businesses, and nonprofit organizations in the final program. Your contribution should align well with the general conference themes described above. More specifically, your abstract should be related to one of these sample topics outlined in the theme table.

### Presentation, Poster, and Discussion Group Application Requirements:

- Submit the basic information at the end of this document to [page@mountainstudies.org](mailto:page@mountainstudies.org)
- Address one of the theme topics for this year's Expo.

## DEMONSTRATION SUBMISSIONS

The Innovation Expo committee is seeking solid demonstration submissions that will be of interest to our audience of operators, investors, active researchers and practitioners who are striving to innovate solutions for new mine technology and reclamation technology. Sectors represented at the Expo include businesses, mining industry, consultants, community members, scientists, engineers, start-ups, venture capital, accelerators, and local, regional, state and federal agencies. While other conferences or expos may be larger, this event is intentionally targeting pioneers, early adopters, and those on the leading edge of technology and innovation to a targeted conversation to advance innovation in remediation.



We invite technologies, products, and services that address any aspect addressing draining mines and acid generation, including but not limited to: characterization, IT sensing and support, remote power, access, treatment technologies, bi-products, market solutions, system approaches and others.

Demonstrations will be included in 2018 and 2019 Innovation Expos. Applications will be accepted for both dates at this time. Depending on the level of responses received, additional opportunities may be developed between the two events for showcasing technologies based upon interest and need.

## **DEMONSTRATION SUBMISSION GUIDELINES**

Demonstrations should describe and/or demonstrate a novel solution to an existing or new problem associated with acid mine drainage. Demonstration submissions should address the following questions:

- What challenge does your technology seek to address?
- Who are the target users?
- What will your demonstration show and how does it work?
- What is your competitive advantage or niche?
- How does your product/demonstration compare to existing systems that seek to do the same or similar things?
- How/where/when will your technology have a technical or commercial impact?

Submissions will be reviewed by the Innovation Expo steering committee, who will evaluate the advantages and novelty of the technical features being demonstrated, the challenges in producing such a system, the expected impact, and the timeliness and relevance for the Innovation Expo audience.

## **Demonstration Application Requirements**

Submissions of demonstration papers must:

- complete the abstract application below
- email pdf or word document to [page@mountainstudies.org](mailto:page@mountainstudies.org)
- be in English and in PDF format
- fit within 4 pages including any diagrams, appendices, and references.
- include specific details about all space, energy, technology and time requirements for the demonstration.
- Include all relevant contact information and credentials for authors/presenters
- Indicate the preferred year of demonstration (2018 or 2019)

Please direct all questions to [page@mountainstudies.org](mailto:page@mountainstudies.org), 970-387-5161.



**APPLICATION FORM:**

Name:

Email address:

Phone:

Company/Affiliation:

Title:

Sector:  Nonprofit  Government  Company  Industry  Student  Other: \_\_\_\_

Submission Type:  Presentation  Poster  Roundtable/Discussion

Abstract Title: (12 word limit)

Abstract: (250 word limit)

Theme:  Social  Technology  Environmental  Business Ecosystem  Policy