



Conference Brochure

ABOUT

The greatest challenges in managing mine waters arise at mines in extreme environments. Mines in extremely arid environments may require expensive systems to desalinate sea water and transport the water great distances to the mine. Mines in extremely wet settings may need expensive systems to treat excess process and contact water before discharging to sensitive receivers. Mines in extremely cold climates may face frozen conditions and the challenge of operating facilities where most of the water is ice for a good part of the year. Complex hydrogeological and geochemical issues are also common to the extremely wet, dry and cold climate settings.

Mine Water Solutions in Extreme Environments is the first in an innovative new conference series that aims to examine a wide range of issues associated with mine water management in extremely wet, dry, and cold climates and with extreme hydrogeological and geochemical settings. The conference papers attest to the ingenuity of mining professionals in addressing mine water management issues by implementing proactive solutions. The technologies, advances, and case histories discussed in these papers will enable us to move forward and cost-effectively implement solutions at mines all over the world.

We expect an extraordinary audience of up to 400 consultants, engineers, managers, researchers and scientists. The technical program will include **three full days of sessions** and will be supplemented by **five short courses**. Sightseeing tours will also be available through a preferred travel agent. The conference will be held in Lima, Peru, and the gastronomic wealth and traditions of the host country will be featured at the gala dinner in the award-winning Huaca Pucllana restaurant.

WHO SHOULD ATTEND

Suggested attendees include mine and mill managers, engineers, consultants, geoscientists, regulatory personnel, and researchers involved with mine water supply, water recuperation, contaminated water migration control, tailings and tailings water management, hydrogeochemistry, and water treatment. This conference will be an exciting opportunity to present ideas, learn about innovative approaches, make contacts, and discuss problems of mutual interest.

THEMES

The following topics will be the focus for presentations:



Water Management in Extremely Wet Areas

- Precipitation and prediction of flooding and the influence of climate change
- Diversion design, erosion management and control during extreme events
- Waste disposal challenges and control of impacted water
- Water storage and treatment
- Mine closure



Water Management in Extremely Dry Areas

- Water sources preservation and alternate water supply strategies
- Tailings management to minimize water losses and closure to preserve groundwater
- Managing salts accumulation & dust
- Water desalination
- Water reuse



Water Management in Extremely Cold Areas (Periglacial and Permafrost)

- Seasonal frost effects
- Permafrost characterization, hydrology and water yields
- Cold regions operating conditions and management practices
- Cold regions mine site hydrology and hydraulic issues (e.g. ice blockage)
- Dam design in cold regions and permafrost
- Climate change design criteria and permafrost impacts
- Mine waste closure in cold environments



Complex Hydrogeological Settings (Karst and fracture flow)

- Advances in investigation techniques
- Karst hydrochemistry
- Mine and quarry dewatering
- Modeling of karstic aquifers
- Engineered measures to reduce seepage and piping of tailings



Challenging Geochemical Conditions

- Investigation, testing and predicting water quality for water management
- Geochemical control measures for underground and open pit mines, mine waste & tailings deposits
- Water treatment for impacted water
- Contaminant transfer modeling

Early Bird Rates until February 15

SPONSOR AND EXHIBITOR OPPORTUNITIES

The Organizing Committee welcomes the support of the mining, engineering, and environmental communities and invites you to participate as a sponsor. The conference will provide extensive opportunities for exposure through websites, printed materials, email broadcasts and face-to-face interaction. Exhibitors will be able to participate with a booth in a trade show adjacent to the main conference.

The Mine Water Solutions conference is your opportunity to support education and training initiatives. The net proceeds from this series of conferences will be donated to select institutions providing mining education or technology transfer to further the objectives of responsible mining in challenging environments. Please contact us at minewatersolutions@infomine.com for further information on how to become a sponsor.

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