



INTERNATIONAL MINE WATER ASSOCIATION

## 2013 Annual Conference Golden, Colorado USA



### Short Course #8

#### Practices to Ensure Construction of Technically Sound and Economically Justified Dewatering and Production Wells

CEO heads are rolling. Mining companies are focused on increasing shareholder value. Directives saying do it cheaper are flying through cyberspace.

Do they really want cheaper or are they demanding sound technological solutions that are cost justified? This workshop will examine practices that will ensure dewatering and production wells will meet technical objectives while at the same time fulfill financial demands of the "suits".

Who should attend this workshop? Well owners and consultants interested in design and construction topics related to achieving optimal well performance. People who view wells as capital investments and seek to understand more about value added technology are also encouraged to attend. We intend to make this a very interactive workshop with input from all attendees.

#### Topics to be Covered

- Build Your Well Around the Pump -- with Special Considerations in Fractured Rock (Atkinson)
- Production Logging to Determine Where the Water in Your Well is Coming From (Lacoco)
- Selection of Water Well Casing and Screen (McGillicuddy)
- Design and Analysis of Pumping Tests (Weber)
- Pump Selection and Design of Pumping Systems (Greene)
- Life-Cycle Economic Analysis of Water Wells / Considerations for Design and Construction (Glotfelty)

#### Instructors

**Dr. Lee Atkinson** has 38 years of varied experience as a consulting hydrogeologist in the areas of mine dewatering and ground-water supply. His expertise includes analysis of fractured rock aquifers, estimating inflow to surface and underground mines, design of dewatering systems for mines, design of innovative field-testing equipment and methods, hydrogeologic site characterization, and ground-water exploration and development.

**Jim Lococo** is responsible for worldwide sales of Mount Sopris (MSI) geophysical logging systems. He has more than 35 years of experience in slimline borehole geophysics applied to ground water, environmental, engineering, mining & shallow natural resource applications.

**Kevin McGillicuddy** joined the Roscoe Moss Company in 1996 as Chief Hydrogeologist working as a technical liaison to municipal water agencies, groundwater consultants, and water well contractors. He has coordinated several educational workshops on water well design, testing and rehabilitation. Prior to joining Roscoe Moss Company, he worked as Director of Recharge Operations and as a Senior Hydrogeologist for the Orange County Water District. He is a Registered Geologist in the State of California.

**Bruce Greene** is President and co-owner of Miller Sales & Engineering specializing in mine dewatering, pumps, and water supply systems. He specializes in pump system designs for surface and underground mine dewatering utilizing wells and pumps stations. Bruce is a Registered Professional Engineer-Mining in Arizona and member of SME and NGWA.

**Daniel Weber** manages the Denver office of Montgomery & Associates and has 30 years of experience solving a variety challenging well hydraulic problems for international and southwestern U.S. mining clients. He specializes in the design and analysis of aquifer tests and implementation of wellfield monitoring programs. Dan is a SME Registered Member and a registered Professional Geologist in Arizona and California.

**Marvin F. Glotfelty**, is co-founder and Principal Hydrogeologist of Clear Creek Associates. During the past three decades, he has specialized in water resources projects such as well design and installation programs, water supply studies, well siting studies, recharge projects, and well evaluation/rehabilitation projects. Mr. Glotfelty is a licensed well driller in Arizona, has served as the technical director of the Arizona Water Well Association since 1990, and was selected as the National Ground Water Association's Distinguished McElhiney Lecturer for 2012. He is a registered geologist in Arizona and California.