

SHORT COURSE

MINE-WATER HYDROGEOLOGY

June 12-14, 2013

Venue: Kjeøy Research & Education Center
Northern Norway



Open pit and underground mining operations are commonly excavating rocks below the natural water table. This will result in a drawdown of the water table, which can affect the water resources. Understanding the groundwater flow system and its connection to the surface water is essential. This class is designed for regulators and mining companies that will be dealing with mine-water hydrogeology.

The topics that will be covered include:

- Introduction to hydrology
- Saturated - unsaturated flow
- Issues of fracture flow
- Groundwater discharge to open pits-underground mine workings
- Geochemical aspect of discharge water
- Geochemical evolution of pit lake and underground mine-workings water
- Hydrogeological Modeling tools

A field trip to an underground mine will be organized June 15-16 to further discuss the mining groundwater issues.

The course will be taught by Professor Dr. Joel Kuszmaul, Univ. Mississippi, USA, Dr. Bill Linderfelt, Principal Hydrogeologist, Interia Inc, USA and Dr. Ingar Walder, KREC.

Registration: at website http://kjeoy.no/event_registration/

Coarse cost: 1200 Euro including food and lodging (3 nights)

Field trip : Euro 500, including transportation, food, lodging (2 nights)

Location: Kjeøy Research & Education Center, Kjeøy Vestbygd, Norway, www.krec.no can be reached from Oslo by air to **Evenes** airport (Harstad-Narvik) using www.Norwegian.com or www.SAS.com and further bus to Lødingen. KREC has pickup service in Lødingen.

