Accommodations are available at the KwaTaqNuk Resort, which is located on Flathead Bay in Polson, Montana. Rooms are also available at the Port Polson Inn (located across the street from the KwaTaqNuk Resort). Please mention the Mine Design, Operations & Closure Conference when making reservations.

KwaTaqNuk Resort
303 US Hwy. 93 E
Polson, Montana
(800) 882-6363
(406) 883-3636
Rates: $55 – single
$70 – double
*Must show State ID

KwaTaqNuk Inn
Port Polson Inn
301 US Hwy. 93 E
Polson, Montana
(800) 654-0682
Rates: $35 – single
$55 – double
*Must show State ID

Air service is available to:
• Missoula International Airport
  (406) 549-6001
• Kalispell Glacier International Airport
  (406) 257-5994
Both airports are located 65 miles from Polson.

Land Application of Mine Effluent
(April 27 & 28, 2003)

Decision-makers, managers, and operators are among the target audience for the 2003 Land Application of Mine Effluent Workshop. This workshop is a 2-day immersion into land application technology for mine wastewaters. It will offer overviews of land application successes and failures in the Western U.S., define the terminology and the components of the process, and provide the questions you should consider when deciding on mine wastewater management methods. The heart of the workshop will acquaint you with the science behind a sound land application program, the “how to” techniques, and use of the limiting design factor concept.

Sunday (April 27): Topics will include the chemical constituents of mine waters, critical soil factors, the LAD water balance, calculating hydraulic and chemical mass loading, vegetation selection, and the process of site screening. Top specialists will give presentations on the soil-water-plant system in LAD operations, regulatory planning and permitting, conducting baseline studies, and compliance monitoring.

Monday (April 28): Topics will begin with LAD system design and operation, including overviews of system layout, sprinkler selection, and operation for permit approval. A variety of perspectives will be provided by mine operators, consultants, regulators and environmental organization representatives. The workshop will conclude with a round-table discussion and Q&A session among the speakers and audience.

Instructors will be Tom Osborne, Hydrosolutions, and Mike Wireman, US EPA. Other participants will include Scott Fisher, Pat Plantenberg, & Wayne Jepson, Montana DEQ, Jim Kuipers, Kuipers Engineering, as well as several others.
Mine Design, Operations & Closure
Conference 2003

GENERAL SESSION

April 2003—DAY 1
7:30 a.m. Introduction, Dr. Karl Barghara, Montana Tech
Plenary Session
7:45 a.m. “The State of Mining/Water Education”
Dr. Lee Suprata, University of Missouri-Rolla
8:30 a.m. “You Can’t Make a Silk Purse out of a Sow’s Ear”
Dr. William Hummel, University of Utah
9:15 a.m. “Mining in Alaska”
Stan Fuss, Alaska Department of Natural Resources
10:00 a.m. BREAK

Mine Closure—Session I
10:30 a.m. “Black Pine Mine”
Jeff Gabbard, US Forest Service
11:00 a.m. “What Can We Achieve in Closure? The New World Mining Response & Restoration Project”
Allan Kirk, Maxis Technologies
11:30 a.m. “Status of the Hidden Mine Cleanup & NRDA Project”
Norm Dey, US Forest Service
Noon – 1:30 p.m. LUNCH

Mine Closure—Session II
1:30 p.m. “Sulfate-reducing Bioreactors—Current Findings”
Dr. Glenn Miller/Dr. Tim Tukamoto, Univ. of HIro, Rona
2:00 p.m. “Metal Contamination of Arsenic-rich Waters in the Surrounds of Sulfide Tailings & Orebodies”
Dr. Bob Robbins, UNSW, Sydney, Australia
2:30 p.m. “Risk Analysis & Risk Management Measures for Mine Decommissioning or Closure”
Dr. Dave Evans, CSC Project Management Services
3:00 p.m. BREAK

Mine Update Session
3:30 p.m. “Lodecote Mine”
Brett Foster/Mark Beth, US Forest Service
4:00 p.m. “Design & Development of Golden Sunlight’s Underground Project”
Henry Bogert, Underground Mine Superintendent
4:30 p.m. “Montana Tunnels Mining, Inc.—With re-development”
John Schoffer, Montana Tunnels
5:00 p.m. “Snowmaking: Innovative Cold Weather Nitrogen Treatment at the East Boulder Mine”
Bruce Gilman/Matt Wolfe, Stillwater Mining Company
6:00 p.m. WELCOME RECEPTION

April 30, 2003—DAY 2
8:00 a.m. Mine Operations Session
“Barrett Talc Mining & Milling in Montana”
John Funk, Barrett Minerals, Inc.
“Rocky Mountain Regional Hazardous Substance Research Center”
Bruce Gilman, Stillwater Mining Company
“Montana Tech of the University of Montana”
John Zillman, Montana Tech of the University of Montana
“Mines Waste Technology Program”
Dr. Tim Tsukamoto, Univ. of NV, Reno
“Mining in Life-Cycle Center, Mackay School of Mines, University of Nevada, Reno”
Dr. Bob Robins, UNSW, Sydney, Australia
“Perspective from Bureau of Land Management”
David Bistline, Bureau of Land Management
2:30 p.m. Panel Discussion
Close of Conference

May 1, 2003—DAY 3
8:30 a.m. Mine Technologies Session
“Revaporation of Mining Wastes Using Organic Soil Amend
ments & Evaluate the Potential for Creating Attractive Naissance for Wildlife”
Darcy Byrne-Kelly, MSA Technology Applications, Inc.
Phosphoric Acid Stabilization of Heavy Metals in Mine-Waste Contaminated Soils at the Joplin, Missouri, FFL Site”
Joy Corke, MSA Technology Applications, Inc.
“Coal Bed Methane—Industry Perspective”
Harman Koepp, Montana Coal Bed Natural Gas Alliance
“Perspective on Coal Bed Methane”
Tom Richardson, Montana Board of Oil and Gas
“Coal Bed Methane & Environmental Concerns”
Greg Halterman, Montana DEQ
11:30 a.m. Perspective on Coal Bed Methane
Bureau of Land Management
Noon – 1:30 p.m. LUNCH
1:30 p.m. “Perspective from Bureau of Land Management”
David Bistline, Bureau of Land Management
2:00 p.m. “Perspective from Fossil”
Bruce Williams, Fossil Exploration & Production Company
3:30 p.m. Panel Discussion

Conference Sponsors

The Mine Design, Operations & Closure Conference is grateful for the support of the following companies/agencies:

• USDA Forest Service
• Bureau of Land Management
• Montana Department of Environmental Quality
• Montana Tech of the University of Montana
• Mine Waste Technology Program
• U.S. Department of Energy
• U.S. EPA Office of Research & Development
• MSA Technology Applications, Inc.
• Mining Life-Cycle Center, Mackay School of Mines, University of Nevada, Reno

If you have questions, please call (406) 496-4311.