

Wednesday Morning Technical Sessions

STATE AND PROVINCE REPORTS

Ponderosa A

Interest Track: Mineral Deposits, Geology and Exploration

Chair: Alan Coyner, Administrator, Nevada Division of Minerals, Carson City, NV

Session Description: Get the very latest update on all mining, minerals, and energy activity in the key states and provinces. From gold to sand and gravel, from exploration to production, this is a "must session" for exploration, miners, and investors. Bring your notebook and find out what is really happening from the regional experts in our business. Today's latest news is tomorrow's golden opportunity. *Featured talks and speakers:*

- **Wyoming**, Robert Gregory, Geologist, Wyoming Geological Survey, Laramie, WY
- **Oregon**, Clark Niewendorp, Mineral Resources Geologist, Oregon Department of Geology & Mineral Industries, Portland, OR
- **Alaska**, Dave Szumigala, Senior Minerals Geologist, Alaska Division of Geological & Geophysical Surveys, Fairbanks, AK

Break

- **Yukon**, Mike Burke, Staff Geologist, Yukon Geological Survey, Whitehorse, YT, CANADA
- **Nevada**, Jon Price, State Geologist and Director, Nevada Bureau of Mines & Geology, Reno, NV and Alan Coyner, Administrator, Nevada Division of Minerals, Carson City, NV
- **Idaho**, Virginia S. Gillerman, Ph.D., Economic Geologist/Associate Research Geologist, Idaho Geological Survey, Boise, ID

NEVADA PROSPECTORS FORUM - PART I

Ponderosa B

Interest Track: Mineral Deposits, Geology, and Exploration

Co-Chairs: Mark J. Abrams, Exploration Manager, Agnico-Eagle (USA) Limited, Reno, NV

Eric M. Struhsacker, Senior Geologist, AuEx, Inc. Reno, NV

Session Description: The Nevada Prospector's Forum will consist of two sessions, Wednesday and Friday mornings. The Forum will feature short presentations describing mineral and geothermal energy prospects in Nevada and adjacent locations in the Basin and Range. The forum will provide explorationists an opportunity to discuss the mineral endowment and promising targets of their prospects in the context of geologic setting and style of mineralization. *Featured talks and speakers:*

- **Jarbidge Mining District at One Hundred Years, Elko County, Nevada**, John Berndt, Consultant, Elko, NV
- **The Cross Prospect, Lincoln County, Nevada**, Ken Brook, Desert Ventures, Inc., Reno, NV
- **The Goldfield February-Premier Project -- A Buried Bonanza, Esmeralda County, Nevada**, Thomas Temkin, Lode Star Gold, Inc., Goldfield, NV
- **Exploration Opportunities and New Mine Development at Borealis, Mineral County, Nevada**, Steven Craig, Consulting Geologist, Reno, NV
- **Rio Fortuna's Wind Mountain Gold/Silver Project, Washoe County Nevada**, Elliott Crist, Fortune River Resource Corporation, Reno, NV
- **South Mountain Project, Owyhee County, Idaho**, Peter Parsley, Thunder Mountain Gold, Inc., Garden City, ID

Break

- **Hycroft Exploration Update, Humboldt County, Nevada**, Dave Flint, Allied Nevada Gold Corporation, Reno, NV
- **Rosebud Revisited and Reinterpreted, Pershing County, Nevada**, Greg Hill, & Robert Cuffney, Harvest Gold Corporation (U.S.), Reno, NV
- **History of the Snowstorm Exploration Project, Northern Elko and Humboldt Counties, Nevada**, Winthrop Rowe, Richaard Fifarek, Elizabeth Crawford and Steven Evans, Snowstorm LLC, Winnemucca, NV

POWER SESSION I - THE BUSINESS CASE FOR STRATEGIC ENERGY MANAGEMENT

Bonanza B

Interest Track: Business and Finance

Chairs: **Ann S. Carpenter**, *President & CEO, Remote Energy Solutions, Reno, NV*
Luke J. Russell, *Vice President Environmental Services, Coeur d'Alene Mines Corporation, Coeur d'Alene, ID*

Session Description: The 1st of a 2-part session, this session will be presented as a panel discussion with questions and answers following the 5 topics. *Featured talks and speakers:*

- **Business Case for Strategic Energy Management: "Green-Backs Before Green"**, *Dr. Charles Reith, GMU Professor, Adjunct Professor of Environmental Science & Policy, Maestro Ventures, Vancouver, BC, CANADA*
- **Developing a Strategic Energy Plan**, *Ed Birch, President, Strategic Energy Group, Portland, OR*
- **Understanding Future Greenhouse Gas (GHG) Requirements**, *Zack Gorstein, Remote Energy Solutions, Reno, NV*

Break

- **Energy Management Standards: ISO for Energy Management - WII-FM (What's in it for Mining)?** *Jon Feldman, CEM, Managing Consultant, Energy Management, Hatch Management Consulting, Oakville, ON, CANADA*
- **Panel Discussion**

OPEN PIT MINES -

MINING IN CHALLENGING TIMES - EVALUATION & PLANNING FOR MINE OPTIMIZATION

Bonanza A

Interest Track: Operations

Chair: **William B. Goodhard**, *Vice President & General Manager – Round Mountain Gold Corp., Round Mountain, NV*

Session Description: Open Pit Mining is not insulated from the challenges presented by the global economic down-turn. Our session will examine how surface mining operations are addressing these challenges and looking to the future demands on production once the economy turns around. Innovations in technology, operations, planning, and cost reduction are the basic tool kit that are driving success and reviewed in this session. *Featured talks and speakers:*

- **Mine Planning and Pre-development**, *Juanita McCord, Senior Mine Engineer, Eureka Moly, LLC, Eureka, NV*
- **Modular/GPS**, *Ed Desjardins, Sr. Manager, Mining Technology, Technical Services, Barrick Gold Corporation, Brookfield Place, Toronto, ON, CANADA*
- **Proposed Methods for Correlating Fragmentation to Ore Recovery**, *Tyler Acorn, Drill & Blast Engineer, Newmont Mining Corporation, Carlin, NV and Aaron Burton, Newmont Mining Corporation*

Break

- **Sharing Maintenance Best Practices Across different Geographies**, *Jeremy Brans, Manager of Operations Strategy, Kinross Gold Corporation, Toronto, ON, CANADA*
- **Backfilling Depleted Open Pit Mines with Geomembrane Lined Process Ore Heaps and Waste Fills for Reduced Closure Costs**, *Allan Breitenbach, P.E., Vector Engineering, Golden, CO.*

LARGE LEFT LATERAL LEAPS FOR ENVIRONMENTAL PROFESSIONALS -- OR -- NUCLEAR ADMISSIONS

Genoa

Interest Track: Environmental

Chairs: **Dr. Terry Mudder**, *President, Times Limited, Sheridan, WY*
Lee "Pat" Gochnour, *Principal, Gochnour & Associates, Inc., Parker, CO*

Session Description: This session is intended to explore unconventional, unpopular, politically incorrect or even wacky ideas related to the nuclear power industry including its role in energy strategy, carbon offsetting, solid waste management, permitting, environmental issues and all other controversial areas. Audience participation is not only allowed, but essential to the success of the session. Provocative, spirited discussion is encouraged, so dust off those hair-brained ideas, get out your "if I could change things" list and join in the fun. *Featured talks and speakers:*

- **Nuclear Confusion**, *Dr. Terry Mudder, President, Times Limited, Sheridan, WY*
- **Clowns to the Left of Me, Jokers to the Right: The Failure of the Nuclear Waste Policy Act**, *Mark Logsdon, Principal Geochemist, Geochimica, Inc., Aptos, CA*

Break

- **Neutrons to Electrons**, *Dr. Terry Mudder, President, Times Limited, Sheridan, WY*
- **LLLLs for ISLs in SD and CO**, *Richard Blubaugh, Vice President, EH & S Resources, Greenwood Village, CO*

ALASKA PROJECTS UPDATE 2009

Genoa

Interest Track: Mineral Deposits, Geology, and Exploration

Chairs: Steve Borell, *Executive Director, Alaska Miners Association, Anchorage, AK*
Steve Denton, *Vice President Business Development, Usibelli Coal Mine, Inc., Healy, AK*

Session Description: Alaska's mining industry continues to expand as several significant new projects mature and initiatives at existing operations increase output and/or reserves. Several major new precious and base metal projects have entered the project definition stage and are expected to begin permitting in 2009 or the near future. Alaska's vast coal resources appear poised to take a larger picture in the world and national energy picture as the Department of Defense launches an Alaska synthetic fuels initiative and export demand for Alaska coal continues to grow. *Featured talks and speakers:*

- **Coal Resources in Northern Alaska**, Teresa Imm, *Director - Resource Department, Arctic Slope Regional Corporation, Anchorage, AK*
- **U.S. Department of Energy Alaska Coal Activities**, Brent Sheets, *Regional Manager, National Energy Technology Laboratory, Arctic Energy Office, Fairbanks, AK*
- **Alaska Airborne Geophysical/Geological Mineral Inventory Program: 16 Exciting Years of HEM Surveying and Geologic Mapping**, L.E. Burns, *Senior Geoscientist, M.B. Werdon, R.J. Newberry, D.J. Szumigala, L.K. Freeman, and J.E. Athey, Alaska Division of Geological & Geophysical Surveys, Fairbanks, AK*

Break

- **Whistler Cu-Au Porphyry Project**, Michael Roberts, *Senior Geologist, Kiska Metals Corporation, Vancouver, BC, CANADA*
- **Update on the Palmer Cu-Zn-Ag-Au Project and the Untapped Potential of the Alexander Triassic VMS Belt**, Darwin Green, *Vice President - Exploration, Constantine Metal Resources, Vancouver, BC, CANADA*
- **Money Knob Deposit, Livengood Project**, Jeff Pontius, *President & CEO, International Tower Hill Mines Ltd., Highlands Ranch, CO*

GROWTH COMPANIES INTO 2009 – PART I

Ponderosa A

Interest Track: Business and Finance

Chairs: Ralph R. Noyes, *CPRS, Investment Advisor, Coeur d'Alene, ID*
James D. Frank, *Chairman, JDF Consulting LLC, Hayden Lake, ID*

Session Description: This year's edition of Growth Companies will continue to focus on companies that are experiencing growth in spite of market conditions. Again we will try to feature small to mid size companies targeting either precious or base metals. These companies will continue to make new discoveries, develop new mines, or increase their production, returning real value to their shareholders in the coming years. Presentations will focus on each company's management, corporate philosophy for growth, share performance, and a broad portfolio of exciting exploration and mining properties. *Featured talks and speakers:*

- **Hecla Mining Co**, Cheryl Turner
- **AuEx Ventures, Inc.**, Ronald L. Parratt, *President and Chief Executive Officer, Reno, NV*
- **Esperanza Silver Corporation**, William Pincus, *President & Chief Executive Officer, Vancouver, BC, CANADA*

Break

- **Mines Management, Inc.**, Douglas Dobbs, *Vice President, Spokane, WA*
- **Western Lithium Corp.**, Dennis P. Bryan, *Senior Vice President of Development, Reno, NV*

UNDERGROUND MINING - PRACTICAL SOLUTIONS TO MINING IN THE MODERN WORLD

Ponderosa B

Interest Track: Operations

Chair: Nigel Bain, *Manager, Goldstrike Underground Division, Barrick Goldstrike, Inc., Elko, NV*

Session Description: High cost of materials, challenges with experienced manpower, fluctuation in commodity pricing, capital scarcity, and the green movement. How to survive in the world of mining? Success depends on practical thinking, working as partners with all venues of supplies and equipment, and making certain that every step counts. Sharing ideas, discussing success stories, and networking as an industry will ensure safe, efficient production. As things seem to be moving in the direction of a global economy so must the mining industry move toward global success. *Featured talks and speakers:*

- **Deep Post End of an Era**, Katie Reed, *Mine Engineer, Deep Post Mine, Newmont Mining Company, Carlin, NV*
- **Wiring Your Company for Sustainable Frontline Improvements**, Keith Russell, *Principal, Partners in Performance International, Atlanta, GA*
- **Blast Vibration Control in Barrick Goldstrike's Underground Division**, Miguel A. Lamadrid, *Senior Mine Engineer, Goldstrike Underground, Barrick Gold North America, Elko, NV*

Break

- **Lake Dorothy Hydroelectric Project, Lake Tap and Tunnel, Juneau, AK**, Ben Roberds, *Project Engineer, J. S. Redpath Corporation, Reno, NV*
- **Leeville - Newmont's Largest U/G Gold Producer with a Great Positive Safety Attitude**, Joe Driscoll, *Mine Manager, Leeville Mine, Newmont Mining Company, Carlin, NV*

URANIUM

Bonanza B

Interest Track: Operations

Chair: George M.L. Robinson, *Principal, R Squared, Inc., Centennial, CO*

Session Description: Uranium is the only viable option to meet the "new" energy policy goals and objective. The session will provide a brief introduction to exploring and producing the "green" energy of the future. Case studies related to convention and in-situ uranium recovery will be presented including the presentation of the regulatory, political and public challenges facing the industry. *Featured talks and speakers:*

- **Powertech Uranium-A New In-Situ Producer**, *Wallace Mays, COO, Powertech (USA), Greenwood Village, CO – Not Available*
- **Permitting the Nichols Ranch ISR Project-What it takes to Start a New ISR Facility in Wyoming**, *Mike Thomas, EHS, Uranerz Energy Corporation, Casper, WY – Not Available*
- **The Challenges of Developing Uranium Resources in Today's Market**, *William Paul Gorenson, Vice President, Mestana Uranium LLC, Corpus Christi, TX*
- **Ground Water Restoration Practices and Requirements for Uranium In-Situ Recovery Projects in the United States**, *Wayne W. Heili, Vice President - Mining, Ur-Energy USA Inc., Casper, WY*

Break

- **The Uranium Recovery Industry and the Current Nuclear Renaissance-A Physicist's Perspective**, *Steve Brown, Certified Health Physicist, SENES Consultants Limited, Englewood, CO*
- **Groundwater Restoration at Uranium In-Situ Recovery Mines**, *Susan M. Hall, Geologist, U.S.G.S., Denver, CO*
- **Drilling Engineering Concepts and Tools for Uranium ISR Well Design and Construction**, *Matt Hartmann, P.G., Hydrogeologist, SRK Consulting, Inc., Fort Collins, CO*
- **Exploration and Discovery of Blind Breccia Pipes and the Potential Significance to the Uranium Endowment of the Arizona Strip District, Northern Arizona**, *Eugene D. Spiering, VP Exploration, Quaterra Resources, Inc., Vancouver, BC, CANADA*

STRATEGIES FOR OPTIMIZING MINE WASTE MANAGEMENT

Bonanza A

Interest Track: Environmental

Chairs: Lisa Bithell Kirk, M.S., P.G., *Doctoral Candidate, Principal Geochemist, Enviromin, Inc., Bozeman, MT*

Session Description: Mining companies are continually assessing new ways to mine more efficiently and thus improve profit and shareholder return. Historically, environmental management has been seen as a "cost" that is necessary to limit liability, when in fact, optimized waste management systems can reduce net mining, processing and closure costs. Papers presented in this session will address methods of mine waste handling, placement, and reuse that can reduce operating costs by improving environmental compliance and overall mining efficiency throughout the mine life cycle.

Featured talks and speakers:

- **Pond Reclamation at U.S. Borax**, *Richard Peevers, Project Engineer, Vector Engineering, Inc., Grass Valley, CA – Not Available*
- **Reducing Cost and Impact through Use of Alternative Feed Stock Materials at Northwest Mine Sites**, *Nicole Prokup, Environmental and Sales & Marketing Manager, Evergreen Recycling, Inc., Morgan, UT*

Break

- **Microbial Ecology in Operational Mine Waste Management**, *Lisa Bithell Kirk, M.S., P.G., Doctoral Candidate, Principal Geochemist, Enviromin, Bozeman, MT*
- **Assessment of Value Recovery from Mine Waters**, *Matt Dey, Principal Geochemist, SRK Consulting, Wales, UK – Not Available*

MERCURY CONTROL MEASURES

Bonanza C

Interest Track: Legislative & Public Affairs

Chair: Nevada Mining Association, Reno, NV

Session Description: Mercury occurs naturally at many gold ore deposits in Nevada. During ore processing, mercury can be liberated and also can be vaporized and released to the atmosphere. Mercury from numerous natural and industrial sources can be transported to surface water bodies where it can be consumed by fish. Advisories are in place to limit fish consumption from numerous water bodies around the world due to elevated mercury concentrations and associated health concerns.

Recognizing the issue, gold mining operators in Nevada have had in place for many years air pollution control devices to capture mercury so that it is not released to the atmosphere. Mercury can be vaporized when ore, carbon, or gold concentrates are heated. Air pollution control devices are in place at ore roasters and autoclaves, carbon regeneration kilns, electrowinning circuits, retorts and melting furnaces. Operators in Nevada as well as the Nevada Division of Environmental Protection (NDEP) were the recipients of the 2003 EPA award for Outstanding Achievement for participation in the Voluntary Mercury Reduction Program. More recently, NDEP passed regulations to build off the successful voluntary program to require a mandatory program for air pollution control of mercury which is commonly referred to as Nevada MACT (Maximum Achievable Control Technology). *Discussion topics and leader include:*

- **Discussion Leader:** Katie Laird, Chair, Nevada Mining Association Air Subcommittee, Environmental Engineer, Barrick Goldstrike, Elko, NV
- **Methods for Mercury Testing, Storage and Stabilization – Not Available**
- **Explanation of the Nevada Mercury Control Program – Not Available**
- **A Look at Mercury as a Global Pollutant – Not Available**

Thursday Morning Technical Sessions

NEVADA GEOTHERMAL UPDATE

Ponderosa A

Interest Track: Mineral Deposits, Geology & Exploration

Chair: John Snow, Geothermal Commissioner, Nevada Commission on Mineral Resources, Reno, NV

Session Description: Nevada continues to experience a record-breaking level of geothermal energy exploration and development. Geothermal energy companies face many of the same challenges that the mining industry does in exploration, permitting, drilling and capital requirements. This session will provide you with information concerning geothermal energy policy, exploration techniques, new project startups, and a summary of all the latest geothermal developments in Nevada. *Featured talks, topics and speakers:*

- **Update on Geothermal Developments in Nevada**, Alan Coyner, Administrator, Nevada Division of Minerals, Carson City, NV
- **Overview of the Nevada Geothermal Power Blue Mountain Geothermal Project Near Winnemucca, NV**, John Casteel, Geologist, Geothermal Power, Inc., Winnemucca, NV
- **Nevada Earthquake and Seismic Noise Studies as Geothermal Indicators** Ileana M. Tibuleac, University of Nevada Reno, Reno, NV

Break

- **Overview of Activities at the UNR Great Basin Training Center for Geothermal Energy**, Lisa Shevenell, PhD, Nevada Bureau of Mines & Geology, & Director of the Great Basin Center for Geothermal Energy, Reno, NV
- **Temperature Survey Methods and Techniques for Geothermal Exploration**, Mark Coolbaugh, Research Assistant Professor, Great Basin Center for Geothermal Energy, University of Nevada Reno, Reno, NV
- **The Geothermal Industry's Need for Metals**, Doug Knight, Engineer, Standard Steam Trust, Denver, CO

DISCOVERING CHINA AND MONGOLIA: EXPLORATION TO MINING

Ponderosa B

Interest Track: Mineral Deposits, Geology and Exploration

Chair: Dr. Dean McDonald, *Vice President Exploration, Hecla Mining Company, Vancouver, BC CANADA*

Session Description: Asia is on an aggressive growth path. Due to outstanding mineral endowment, market liberalization policies and revised mining laws China and Mongolia have been successful in attracting foreign exploration and mining capital. This session will look at known ore occurrences and the method of their formation, regional geological potential and some of the key exploration projects and case studies from leading industry players. We will also look at the challenges of working in these countries. *Featured talks and speakers:*

- **The Geologic Framework of China and its Mineral Potential**, Dr. Craig Hart, *Mineral Deposits Research Unit, University of British Columbia, Vancouver, BC, CANADA*
- **Exploration and Development of the Fuwan Silver Deposit**, Dr. Ken Cai, *Chairman & CEO, Dwight Melrose, Vice President Exploration, Minco Silver Corporation, Vancouver, BC, CANADA – Not Available*
- **Exploration and Mining in High-Grade, Precious Metal Ying District, China**, Dr. Rui Feng, *Director, Chairman & CEO, Silvercorp Metals Inc., Vancouver, BC, CANADA – Not Available*

Break

- **Heruga – The most recent discovery on the Oyu Tolgoi Trend Mongolia** Lindsay Bottomer, *Vice President Corporate Development, Entrée Gold Inc., Vancouver, BC, CANADA*

POWER SESSION DEUX - STRATEGIC ENERGY MANAGEMENT CASE STUDIES

Bonanza B

Interest Track: Business and Finance

Chairs: Ann S. Carpenter, *President & CEO, Remote Energy Solutions, Reno, NV*
Luke J. Russell, *Vice President Environmental Services, Coeur d'Alene Mines Corporation, Coeur d'Alene, ID*

Session Description: This session will present case studies relating to the following 5 topics discussed in Wednesday morning's Power Session I. *Featured topics and speakers:*

- **Renewable Energy and New Energy Deployments**, Ann Carpenter, *President & CEO, Remote Energy Solutions, Reno, NV*
- **Compressed Air and Pumping Systems - Major Energy Reductions**, Tony Teske, *Credentialed Energy Manager, Consultant, Lancaster, CA*
- **Integration of Renewable Power into Closure Planning at the Lisheen Mine, Co. Tipperary, Ireland**, John Elmes & Geoffrey Beale, *Principal, Schlumberger Water Services, Water Management Consultants, Inc., Reno, NV*

Break

- **Energy and Carbon Management at a Large Gold Mine; Discoveries Leading to Energy Savings and Carbon-GHG Reductions**, Dr. Charles Reith, *Professor of Environmental Science & Policy, George Mason University, Principal, Remote Energy Solutions, Reno, NV*
- **Sustainable Energy Savings - A Study in Environmental Leadership at a Canadian Mining Company**, Jon Feldman, *CEM, Managing Consultant, Energy Management, Hatch Management Consulting, Oakville, ON, CANADA*

HEALTH AND SAFETY - CULTURE OF PREVENTION

Genoa

Interest Track: Operations

Chair: Fred Fox, *Manager, The Trapper Consulting LLC, Salt Lake City, UT*

Session Description: A successful culture of accident and illness prevention embeds safety and health as core values in all initiatives and ongoing activities. This session will address health and safety initiatives and activities available from regulatory agencies, trade associations and mine operators. We will examine compliance enhancement and risk-based health and safety initiatives and existing support programs including education and training to help operators comply with health and safety requirements. This session is intended to plant ideas and provide available resources for reducing accidents and illnesses in the mining industry. *Featured topics and speakers:*

- **Mine Safety & Health - Getting Ahead of the Political Curve**, Bruce Watzman, *Sr. Vice President Regulatory Affairs, National Mining Association, Washington, DC*
- **Legislative, Regulatory and Case Law Update**, Timothy R. Olson, *P.C., Attorney at Law, Brighton, CO*
- **Rio Tinto - a Global Approach to Safety**, Patrick James, *CSP, Principle Advisor Safety, Rio Tinto, South Jordan, UT*

Break

- **New Mine Development - Health & Safety Priorities**, Jon Cherry, *PE, General Manager Kennecott Eagle Minerals, Rio Tinto, Ishpeming, MI*
- **The Human and Ecological Risk Assessment Process as a Decision-Making Tool for Mining Sites**, Anne Thatcher, *Certified Principal in Charge, Arcadis, Highlands Ranch, CO*

ENVIRONMENTAL LAW AND MINING IN THE OBAMA ERA

Bonanza A

Interest Track: Environmental

Session Chairs: Fred R. Wagner, *Principal, Beveridge & Diamond, PC, Washington, DC*
Peter J. Schaumberg, *Of Counsel, Beveridge & Diamond, PC, Washington, DC*

Session Description: A new administration has brought with it a renewed focus on all things related to environmental protection and enforcement. All aspects of mining have been or will be impacted by changes to the already broad scope of federal environmental regulation. This panel will feature expert legal and environmental professionals who can help you keep track of the modified and/or anticipated new requirements facing the mining industry. *Featured topics and panel chairs:*

- **Program Moderators:** Peter J. Schaumberg, *Of Counsel*, & Fred R. Wagner, *Principal, Beveridge & Diamond, PC, Washington, DC*
- **Natural Resources and Public Lands Panel Chair:** Charlotte L. Neitzel, *Partner, Holme Roberts & Owen LLP, Denver, CO*
- **Environmental Law and Mining:** Lisa Kirschner, *Partner, Parsons Behle & Latimer, Salt Lake City, UT*
- **The Coal Wars in Central Appalachia: 10 years of Litigation and Civil Unrest:** Robert G. McClusky, *Jackson Kelly, PLLC, Charleston, WV*
- **The CERCLA Section 108(b) Financial Responsibility Initiative:** Patty McGrath, *EPA Region 10 Mining Coordinator, EPA National Mining Team Co-Chair*
- **CERCLA Section 108(b) Hardrock Mining Industry:** Tawny Bridgeford, *Associate General Counsel NMA*

Thursday Afternoon Technical Sessions

TRADITIONAL LARGE LEFT LATERAL LEAPS

Ponderosa B

Interest Track: Mineral Deposits, Geology, and Exploration

Chairs: Ann Carpenter, *President & CEO, Remote Energy Solutions, Reno, NV*
Harry E. Cook, *Consultant, Carbonate Geology LLC, Redwood City, CA*

Session Description: Please come join in the Large Left Lateral Leaps (LLLL) Technical Session for 2009. We will continue the unconventional and hopefully provocative format of geological paradigm shifts. The talks will encompass innovative presentations and interpretations in an attempt to move our science forward. "Thinking Outside the Box" is deeply encouraged, with continued focus on retaining scientific integrity and respecting the "geologic fences" of the data presented – grounding the science while encouraging "leapage" forward. As is the convention we will provide 'traditional' refreshments to help motivate and coax discussions and opining from the audience and presenters alike. We are looking for the provocative, unconventional, and controversial - all driving lively discussions forward. *Featured topics and speakers:*

- **From the Kaibab Plateau to the High Lava Plains: Where is the Carlin Trend?**, Kelly Cluer, *Director, Altan Rio Ltd., Carson City, NV*
- **Structure of the Pipeline-Gold Acres Window**, Thomas Chapin, *Geologist, Barrick Gold Corporation, Reno, NV – Not Available*
- **Oil Field Brines, Organic Acids and Carlin-Style Mineralization: A Parallel Verse in the Ever Expanding Carlin Multiverse**, Jim Essman, *Project Geologist, Newmont Mining Corp., Carlin, NV*
- **Burgess II: It Really Was Good Eating**, Stanley B. Keith, *President, MagmaChem Exploration, Inc., Sonoita, AZ*
- **Origin of Carlin-Type Gold Deposits**, John Muntean, *Research Geologist, Nevada Bureau of Mines and Geology, Reno, NV – Not Available*

GROWTH COMPANIES INTO 2009 – PART II

Ponderosa A

Interest Track: Business and Finance

Chairs: Ralph R. Noyes, *Investment Advisor, Coeur d'Alene, ID*
James D. Frank, *Chairman, JDF Consulting LLC, Hayden Lake, ID*

Session Description: Part II of this year's edition of Growth Companies will continue to focus on companies that are experiencing growth in spite of market conditions. Again we will try to feature small to mid size companies targeting either precious or base metals. These companies will continue to make new discoveries, develop new mines, or increase their production, returning real value to their shareholders in the coming years. Presentations will focus on each company's management, corporate philosophy for growth, share performance, and a broad portfolio of exciting exploration and mining properties. *Featured talks and speakers include:*

- **Royal Gold, Inc.**, Tim Thompson, *Manager of Corporate Development, Denver, CO*
- **PolyMet Mining Corp.**, Joe Scipioni, *President, CEO and Director, Hoyt Lakes, MN*
- **Aquila Resources**, Thomas O. Quigley, *President, CEO and Director, Toronto, ON, CANADA*

Break

- **Duluth Metals Limited**, Henry (Rick) Sandri, *President and Director, Oakdale, MN*
- **Nevada Copper**, Joe Kircher, *Vice President & COO, Yearington, NV*
- **Revett Minerals, Inc.**, Doug Ward, *VP Corporate Development, Spokane, WA*

METALLURGY

Genoa

Interest Track: Operations

Chair: Dr. Corby G. Anderson, CEng FICHEM, Harrison Western Professor of Metallurgical & Materials Engineering, Colorado School of Mines, Golden, CO

Session Description: This session will focus as an update on the research, development, designs, technologies, recycling and environmental aspects of metallurgy now being implemented to produce critical metals and materials.

- **Hydrometallurgical Treatment of Gold Bearing Copper Enargite Concentrates**, Dr. Corby G. Anderson, CEng FICHEM, Harrison Western Professor of Metallurgical & Materials Engineering, Colorado School of Mines, Golden, CO
- **Mineral Liberation Analysis of PGM's in Stillwater Mining Company's East Boulder Mill Circuit**, Paul Miranda, PhD., Process Engineer, CAMP - Montana Tech of the University of Montana, Butte, MT – **Not Available**
- **Critical Metals Recycling, Research and Development at the Colorado School of Mines Kroll Institute for Extractive Metallurgy**, Dr. Corby G. Anderson, CEng FICHEM, Harrison Western Professor of Metallurgical & Materials Engineering, Colorado School of Mines, Golden, CO

Break

- **Fundamental Procedures to Evaluate and Design Industrial Waste Water Treatment Systems**, Jay McCloskey, Metallurgical Engineer, CAMP - Montana Tech of the University of Montana, Butte, MT
- **The Development and Implementation of Industrial Hydrometallurgical Gallium and Germanium Recovery**, Todd Fayram, Metallurgical Engineering Consultant, Continental Metallurgical Services, Butte, MT

ALTERNATIVE USES FOR CLOSED MINE SITES CASE STUDIES

Bonanza B

Interest Track: Environmental

Chair: Thomas W. Crosby, Principal Engineering Geologist, Stantec Consulting Services, Inc., Lafayette, CA

Session Description: Closed mines have been utilized for a wide variety of positive end uses. This session will provide an overview of uses for both underground and surface post closure uses, as well as case studies for specific mines. Surface mines have been utilized for wildlife habitat, recreational lakes, race tracks, commercial and residential development, and mixed use applications. Underground mines have been used for records and data storage, power generation, gas storage, scientific research, tourist attractions and other uses. *Featured talks and speakers:*

- **Native Habitat to Motocross Park - The Economic and Environmental Benefits of Changing Mine Reclamation in Real Time at the Pala Indian Reservation, California**, Douglas W. Sprague, Manager of Reclamation, Vulcan Materials Company-Western Division, Los Angeles, CA
- **Mine Life After Closure – the AJ Mine, Juneau, Alaska**, Jerry and Beverly Harmon, Owner & Manager, AJ Mine/Gastineau Mill Enterprises, Juneau, AK
- **City of Irwindale, Mining to Prosperity**, Julian (J.C.) Isham, Geology Manager, Shaw Environmental, Inc., Concord, CA – **Not Available**

Break

- **The Riverpark Project – A Case Study in Urban Reclamation**, John Hecht, P.E. President and Founding Partner, Sespe Consulting Inc., Ventura, CA
- **DUSEL: The Development of the Deep Underground Science and Engineering Laboratory at Homestake**, Sydney (Syd) De Vries, Underground Construction Project Manager, Lawrence Berkeley National Lab, Berkeley, CA

IT IS NOT TOO EARLY:

THE VALUE OF CORPORATE SOCIAL RESPONSIBILITY (CSR) IN EXPLORATION AND PROJECT DEVELOPMENT

Bonanza A

Interest Track: Legislative & Public Affairs

Chair: **Caroline Rossignol**, *Manager, Corporate Social Responsibility, Barrick Gold Corporation, Vancouver, BC, CANADA*

Session Description: Constructive engagement at the earliest stages of resource development projects minimizes permitting delays and operational disruptions, facilitates access to local workforces and contributes to building positive relationships with important stakeholders including landowners, Indigenous communities, and local non-government organizations. Speakers in this session will share their experiences in managing this critical, yet controllable, variable in developing successful mining projects. *Featured talks and speakers include:*

- **Effective Aboriginal Engagement = Corporate Social Responsibility**, *Dan M. Jepsen, RPF, Chairman and CEP, C3 Alliance Corp., Vancouver, BC, CANADA - Not Available*
- **Herding Cats**, *Mari-Ann Green, B.A., B.Ed., Chairman & CEO, Formation Capital Corporation, Vancouver, BC, CANADA - Not Available*
- **Partnering for Success: Adding value in Exploration Through Community Engagement**, *Matt Jeschke, Regional Community Relations Manager, Kennecott Exploration Company, Rio Tinto, Salt Lake City, UT - Not Available*

Break

- **Corporate Social Responsibility: Political Correctness or a Corporate Life Style?**, *Richard Brown, Vice President, WYO-BEN, Billings, MT*

Friday Morning Technical Sessions ~ 8:00 - 11:30 am

ADVANCES IN IDENTIFYING CONCEALED MINERAL DEPOSITS

Bonanza A

Interest Track: Mineral Deposits, Geology, and Exploration

Chair: **Dave Frank**, *Outreach Coordinator, U.S. Geological Survey, Spokane, WA*

Session Description: Speakers will describe progress of current USGS research designed to improve our ability to identify concealed mineral deposits. Study areas include primary characteristics of concealed mineral deposits, characteristics of post-mineralization cover, geophysical and geochemical techniques for identifying concealed mineral deposits, and methods of combining datasets to produce estimates of possibility/probability.

Featured talks and speakers:

- **Margins and Gradients of Porphyry Cu Systems Based on Mineral Compositions**, *Peter G. Vikre, Geologist, Reno, NV - Not Available*
- **The Utility of Ground-Based Magnetic Profile Data in Concealed Mineral Resource Investigations**, *Mark W. Bultman, Geologist, Tucson, AZ - Not Available*
 - **Structural Corridors in the Yukon-Tanana Upland, Alaska - A Tool for Understanding Regional Metallogeny in a Concealed Terrane**, *Warren C. Day, Science Program Officer, Denver, CO - Not Available*

Break

- **USGS Studies at the Concealed Pebble Porphyry Cu-Au-Mo Deposit, Alaska**, *Robert G. Eppinger, Geologist, Denver, CO - Not Available*
- **Identifying Lithologic Terranes Beneath Cover Using Possibility Theory**, *Mark E. Gettings, Geophysicist, Tucson, AZ - Not Available*
- **Summary of USGS Work**, *Kate Johnson, Program Coordinator, Reston, VA - Not Available*

NEVADA PROSPECTORS FORUM - PART II

Ponderosa B

Interest Track: Mineral Deposits, Geology, and Exploration

Co-Chairs: Eric M. Struhsacker, *Senior Geologist, AuEx, Inc. Reno, NV*

Mark J. Abrams, *Exploration Manager, Agnico-Eagle (USA) Limited, Reno, NV*

Session Description: This is a continuation of Wednesday's Nevada Prospectors Forum. We will continue to feature short presentations describing mineral and geothermal energy prospects in Nevada and adjacent locations in the Basin and Range. The forum will provide explorationists an opportunity to discuss the mineral endowment and promising targets of their prospects in the context of geologic setting and style of mineralization. *Featured topics and speakers:*

- **Eureka District Exploration Update, Nevada**, Gary Edmondo, *Staccato Gold Resources, Ltd., Reno, NV*
- **New Developments at MacArthur Copper, Yearington Mining District, Lyon County, Nevada**, George Eliopoulos, *Quaterra Alaska, Inc., Reno, NV*
- **The Olympic Project, Mineral County, Nevada**, Lindsay Craig, *AuEx, Inc., Reno, NV*
- **Majuba Hill Nevada: Updating the Confusion, Pershing County Nevada**, Buster Hunsaker, *Hunsaker, Inc., Elko, NV*
- **Geology and Sediment-Hosted Gold Targets at the Red Canyon Project, Eureka County, Nevada**, Steven Koehler, *Miranda Gold Corporation, Elko, NV*
- **A Very Brief Summary of Sniper Resources Ltd.'s Overland Pass and Guild Projects, White Pine and Nye Counties, Nevada**, Doug McGibbon, *Sniper Resources, Ltd., Winnemucca, NV*

Break

- **Geology of the Rockland Mine Area, Lyon County, NV: Epithermal Au-Ag Mineralization Associated with Late Miocene Rhyolite Domes**, Tony Eng, *Enigma Resources, LLC, Carson City, NV*
- **Geology and Mineral Potential of the South Lida Property, Esmeralda County, Nevada**, Eric Saderholm & Curt Everson, *Sirius Exploration, LLC, Elko, NV*
- **Mineral Ridge: Measuring a Great Old District with Modern Benchmarks, Esmeralda County Nevada**, Chip Todd, *Scorpio Gold U.S., Spring Creek, NV*

OPEN PIT MINES & UNDERGROUND MINING - A COMBINATION SESSION

Bonanza B

Interest Track: Operations

Chair: Nigel Bain, *Manager, Goldstrike Underground Division, Barrick Goldstrike, Inc., Elko, NV*

Session Description: A continuation of Wednesday morning's Open Pit Mines and Wednesday afternoon's Underground Mining sessions, this session *features the following talks and speakers:*

- **Cooperation on Computer-based Driver Training to Reduce Accidents**, Mark B. Nelson, *President, FrameworkSolutions, Inc., Midway, UT- Not Available*
- **Blinded by the Light: the Truth About LiDAR Mapping**, Ken Wrede, *Technical Representative & Project Manager - Mining, Fugro Horizons, Inc., Rapid City, SD*
- **Review of Performance of Organic Coatings with Expandable Rock Bolt Products**, Matt Slatter, *Research & Development Manager, DSI Mining Americas, Salt Lake City, UT*

Break

- **Mapping - The Haulroad to Success?**, Ken Wrede, *Technical Representative & Project Manager - Mining, Fugro Horizons, Inc., Rapid City, SD*
- **Fleet Logic: Vehicle and Asset Health Management for Mining**, Ken Johnson, *Business Development Fleet Logic Global, LLC, Ann Arbor, MI & Richard Wilmot, Business Development, Fleet Logic Global, LLC, Orlando, FL*

MINE WATER TREATMENT – THE STATE OF TECHNOLOGY TO MEET INDUSTRY AND REGULATORY DEMANDS

Genoa

Interest Track: **Environmental**

Chair: **Scott Benowitz, P.E.**, *President, Water Engineering Technologies, Inc., Bozeman, MT*

Session Description: Water treatment in mining operations continues to mature due to mill process requirements, the need to meet lower permit effluent limits, and advancing global sustainability initiatives. This session will focus on existing and future mine water treatment requirements experienced by industry and envisioned by regulators; and technological advances in conventional and passive water treatment technologies for process recycle, discharge, and mineral sequestration. *Featured talks and speakers:*

- **Looking Forward in Water Treatment Processes for the Mining Industry**, *Dave Christophersen, Vice President / Technical Director, Crown Solutions – A Subsidiary of Veolia Water Solutions & Technologies, Vandalia, OH*
- **Historical Review of Biotreatment for Mine Water**, *James R. Fricke, Principle, Resource Environmental Management Consultants, Inc., Midvale, UT*
- **Permitting Requirements for Evaluation and Selection of Mine Water Treatment Systems**, *Doug Parker, Executive Vice President, Principal Soil Scientist/Hydrogeologist, Hydrometrics, Inc., Missoula, MT*
- **Beware the New US EPA CERCLA Financial Responsibility Requirements**, *Cliff Yeckes, P.G., CEM, MBA, Senior Vice President, Willis HRH Environmental Practice, Denver, CO*
- **Regulatory Perspective on Mine Water Management Requirements in the Future**, *Patty McGrath, Regional Mining Coordinator, U.S. Environmental Protection Agency (EPA), Region 10, Seattle, WA*
- **Advancing Water Treatment at Marlin**, *Lisa J. Wade, Environment Director, Goldcorp Inc., Guatemala C.A.*

LEGISLATIVE AND REGULATORY AFFAIRS

Ponderosa A

Interest Track: **Legislative and Public Affairs**

Chair: **Laura Skaer**, *Executive Director, Northwest Mining Association, Spokane, WA*

Session Description: The 111th Congress has seen the re-introduction of Chairman Rahall's Mining Law Reform bill that passed the House in November, 2007 and the introduction of a Senate bill (S. 796) by Jeff Bingaman (D-NM). Both bills would result in significant uncertainty, curtail mineral production on public lands, export tens of thousands of high paying jobs, and increase America's reliance on foreign sources of minerals. In July, Rep. Doug Lamborn (R-CO) introduced an alternative to the Rahall bill that industry can support (H.R. 3201) and an industry-supported Good Samaritan bill (H.R. 3203). Meanwhile, the administration and Congress are focusing on renewable energy production without clearly understanding the connection between "clean energy" and the need for more mining; EPA is increasing the regulatory burden on our industry and reinterpreting regulations that will make it more difficult or impossible to mine; and the public continues to demand the products mining provides, but doesn't want the mine "in their backyard." Industry experts will examine these issues and others that are challenging America and the future of the domestic mining industry. *Featured talks and speakers:*

- **Overcoming Community Opposition in the Age of NIMBYism**, *Christopher Hopkins, Senior Vice President Aggregates & Mining, The Saint Consulting Group, Franklin, TN*
- **The Clean Energy Coalition for Metals and Mining, (American Rare Earth Minerals: The Indispensable Resource for Clean Energy Technologies)**, *Mark A. Smith, Chief Executive Officer, Molycorp Minerals, LLC, Greenwood Village, CO*
- **The Clean Water Act Clarified; The U.S. Supreme Court Kensington Mine Tailings Decision**, *Robert A. Maynard, Boise Managing Partner, Perkins Coie LLP, Boise, ID*

Break

- **New Horizons on Environmental Compliance and Environmental Management Systems**, *Michael Bogert, Senior Counsel, Crowell & Moring LLP, Washington, DC*
- **Mining Law**, *Kathleen M. Benedetto, Legislative Staff, House Natural Resources Committee, Washington, DC*