2017 ANNUAL MEETING SPONSORS

$10,000 and Up
- Florin Analytical Services

$5,000 - $9999
- Nugget Casino Resort
- Agnico Eagle (USA) Ltd
- Goldcorp
- Hecla Mining Company

$2,500 - $4,999
- Small Mine Development
- Coeur Mining
- Norton Rose Fulbright
- SRK Consulting (U.S.) Inc.
- First Drilling
- NewFields
- Silbayne-Stillwater
- Stantec

$1,000 - $2,499
- Boart Longyear
- Geo-Logic Associates
- Crowley Fleck PLLP
- Freemyer & Associates
- Kinross Gold
- Mine Development Associates
- Rio Tinto Kennecott Exploration Company
- Tech-Flow
- TonaTec Exploration LLC

$500 - $999
- Jentech Drilling Supply, Inc.
- RockTech USA, Inc.
- Sunshine Mining & Refining Company, Inc.
- Debra & Eric Struhsacker
- Foth Infrastructure & Environment
- Hall Mineral Services
- International Directional Services
- Libertygold

Up to $499
- Fordia USA
- ACZ Laboratories
- GK Machine
- Montgomery & Associates
- Idea Drilling
- Brahma Group, Inc.
- Hidden Valley Insurance
Eric M. Struhsacker is an exploration geologist with approximately 40 years of experience including assignments with Renaissance Gold Inc., AuEx Ventures, Inc., Victoria Resources, Homestake Mining Company, Sante Fe Pacific Gold Corporation, Chevron Resources Company, and Exxon Minerals Company. He has conducted exploration for gold and silver deposits in the Great Basin, copper and molybdenum deposits in the western United States, volcanogenic massive sulfide deposits in Maine and Arizona, and geothermal resources in the Great Basin.

Eric is a Certified Professional Geologist (CPG #11107) with the American Institute of Professional Geologists. He is a 1973 graduate from Dartmouth College and earned a Master of Science from Montana State University in 1976. He is a member and former President and Vice President of the Geological Society of Nevada.

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#AEMA17

2017 Program Chairman

Eric M. Struhsacker
Consulting Exploration Geologist
Reno, Nevada
estruhsacker@sbcglobal.net

2017 Program Co-Chairman

Clark West
Global Mining Service/Marketing Manager
Agru America, Inc.
Reno, Nevada
cwest@agruamerica.com

Clark started in the waterproofing industry in 1985 as a superintendent for a roofing company. He worked up to the position of Vice President before leaving to start in the flexible geomembrane industry in 1990 with National Seal Company as a field superintendent specializing in mine leach pads and ponds construction. In 1993 he was promoted to the Sales Division as the Sales Engineer for the Western Region moving to the position of Western Region Sales Manager in 1996. In 1999 through acquisitions Clark became an employee of the Serrot International company and served as the Western Region Sales Manager until 2002. He then started the Sierra Geosynthetics Incorporated liner installation company with partners.

In 2008 he joined Agru America as the Western Region Manager with the major responsibility of developing the mining industry market for them to coincide with their new manufacturing facility in Fernley, Nevada. Currently Clark holds the position of Mining Service and Marketing Manager working globally and has experience in all facets of the flexible membrane industry dealing with installation, sales and marketing.

2017 AEMA President

Erik Best
Land Manager – North America
Kennecott Exploration Company
Rio Tinto
Salt Lake City, UT
Erik.best@riotinto.com

2017 American Exploration & Mining Association President, Erik Best, has a B.S. in Biology and J.D. from the University of Wyoming College of Law. He works as Rio Tinto Exploration-Kennecott Exploration Company’s Land Manager for North America where he focuses on land management, negotiations, permitting and governmental outreach. He has been a member of the AEMA Board of Trustees since 2012 where he has been involved on issues relating to Public Lands, Mining Law & Policy and Membership. In his spare time, he enjoys spending time with his family, fishing and traveling.
**SCHEDULE OF EVENTS**

**SUNDAY DECEMBER 3**
- 7:00 - 8:00  Registration for SRCE short course
- 8:00 - 5:00  Short Course (SRCE)
- 3:00 - 5:00  Registration & Packet Pick Up

**MONDAY DECEMBER 4**
- 7:00 - 5:00  Registration & Packet Pick Up
- 8:00 - 5:00  Short Courses

**TUESDAY DECEMBER 5**
- 7:00 - 5:00  Registration & Packet Pick Up
- TBA  Tours Depart
- 8:00 - 5:00  Short Courses
- 2:30 - 5:00  AEMA Board Meeting
- 6:00 - 8:00  Hosted Awards & Recognition Reception

**WEDNESDAY DECEMBER 6**
- 7:00 - 5:30  Registration & Packet Pick Up
- 7:00 - 9:15  Breakfast Burritos - *hosted by Kappes Cassiday & Associates and Florin Analytical Services*
- 8:00 - 11:30  Morning Technical Sessions
- 9:00 - 6:30  Exhibit Hall & Student Posters
- 9:35 - 10:20  Exhibit Hall Coffee Break (All sessions break)
- Noon - 1:30  Welcoming Luncheon
- 2:00 - 5:30  Afternoon Technical Sessions
- 3:35 - 4:20  Exhibit Hall Coffee Break (All sessions break)
- 5:30 - 6:30  Welcoming Reception

**THURSDAY DECEMBER 7**
- 7:00 - 5:30  Registration & Packet Pick Up
- 7:00 - 9:15  Breakfast Burritos - *hosted by Kappes Cassiday & Associates and Florin Analytical Services*
- 8:00 - 11:30  Morning Technical Sessions
- 9:00 - 6:30  Exhibit Hall & Student Posters
- 9:35 - 10:20  Exhibit Hall Coffee Break (All sessions break)
- Noon - 1:30  Welcoming Reception
- 2:00 - 5:30  Afternoon Technical Sessions
- 3:35 - 4:20  Exhibit Hall Coffee Break (All sessions break)
- 5:30 - 6:30  Young Professional’s Reception

**FRIDAY DECEMBER 8**
- 7:00 - Noon  Registration & Packet Pick Up
- 7:00 - 9:15  Breakfast Burritos - *hosted by Kappes Cassiday & Associates and Florin Analytical Services.*
- 8:00 - 11:30  Morning Technical Sessions
- 9:00 - Noon  Exhibit Hall & Student Posters
- 9:35 - 10:20  Exhibit Hall Coffee Break (All sessions break)
- 11:30 - Noon  Exhibit Hall Sandwich Lunch
- Noon - 5:00  Exhibit Tear Down

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**INDUSTRY OUTLOOK LUNCHEON KEYNOTE SPEAKER**

Tony Jensen
President and Chief Executive Officer Royal Gold, Inc.

Tony Jensen is President and Chief Executive Officer of Royal Gold, Inc. Prior to joining Royal Gold, he spent 18 years with the Placer Dome group of companies. Tony’s background is anchored in operations and balanced with corporate administration, finance and business development experience gained in the United States and Chile, where he occupied senior management positions.

Tony has over 30 years of experience in the mining industry and currently represents Royal Gold at the World Gold Council (Chair, Compensation Committee) and the National Mining Association. He is a member of the University Advisory Board of the South Dakota School of Mines and Technology. He holds a Bachelor of Science degree in Mining Engineering from South Dakota School of Mines and a Certificate in Finance from Golden Gate University in San Francisco.

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**Keynote Speaker Luncheons**

*All luncheons will be held on the Main Floor of the Casino in the Celebrity Showroom.*

**Tickets are $50.00 each**

Order tickets on the registration form. There will be a limited number of tickets available for sale at the AEMA registration desk.
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<th>Short Courses</th>
<th>One Day Short Courses</th>
<th>Field Trips</th>
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</thead>
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<tr>
<td>SUNDAY DEC 3</td>
<td>8:00 - 5:00</td>
<td>Using SRCE Version 2.0 - New and Updated Training</td>
<td>Jeff Parshley SRK (U.S.), Inc.</td>
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<td>MONDAY DEC 4</td>
<td>8:00 - 5:00</td>
<td>Using SRCE Version 2.0 - New and Updated Training</td>
<td>Jeff Parshley SRK (U.S.), Inc.</td>
<td>Minimizing Permitting Pitfalls &amp; Delays on Federal Lands</td>
<td>Understanding &amp; Running Quality Assurance/Quality Control</td>
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<tr>
<td>TUESDAY DEC 5</td>
<td>8:00 - 5:00</td>
<td>Using SRCE Version 2.0 - New and Updated Training</td>
<td>Jeff Parshley SRK (U.S.), Inc.</td>
<td>Minimizing Permitting Pitfalls &amp; Delays on Federal Lands</td>
<td>Understanding &amp; Running Quality Assurance/Quality Control</td>
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</tbody>
</table>

**Tuesday Evening**

**AEMA ANNUAL AWARDS & RECOGNITION RECEPTION**

6:00 - 8:00 5th Floor - Chalet Terrace - This hosted reception is open to all attendees.
# 2017 Technical Session Program

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<tr>
<th>Day</th>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Exhibits Open</th>
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<tbody>
<tr>
<td><strong>WED DEC 6</strong></td>
<td><strong>MORNING</strong></td>
<td>State &amp; Province Reports</td>
<td>Exhibit Hall</td>
<td>Exhibits Open 9:00-6:30</td>
<td>Coffee Break 9:35-10:20</td>
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<tr>
<td></td>
<td>8:00 - 11:30</td>
<td>Mining in South America</td>
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<td></td>
<td></td>
<td>Rob Valceschini&lt;br&gt;Geo-Logic Associates</td>
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<tr>
<td></td>
<td>Noon</td>
<td>WELCOME LUNCHEON</td>
<td>Sandwich Lunch</td>
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<tr>
<td><strong>WED DEC 6</strong></td>
<td><strong>AFTERNOON</strong></td>
<td>Critical Minerals for Technology &amp; Energy</td>
<td>Exhibit Hall</td>
<td>Exhibits Open 9:00-6:30</td>
<td>Coffee Break 3:35-4:20</td>
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<tr>
<td></td>
<td>2:00 - 5:30</td>
<td>New Mining in Old Districts</td>
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<td></td>
<td></td>
<td>Tim Arnold&lt;br&gt;Pershing Gold Corporation</td>
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<td></td>
<td>Noon</td>
<td>WELCOME RECEPTION IN THE EXHIBIT HALL</td>
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<tr>
<td><strong>THUR DEC 7</strong></td>
<td><strong>MORNING</strong></td>
<td>Lithium&lt;br&gt;Ruth Carraher&lt;br&gt;C&amp;M Consultants &amp; Paul Dockweiler&lt;br&gt;GeoSyntec Consultants</td>
<td>Public Lands&lt;br&gt;Debra Struhsacker&lt;br&gt;Pershing Gold Corporation</td>
<td>Exhibits Open 9:00-6:30</td>
<td>Coffee Break 9:35-10:20</td>
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<td></td>
<td>8:00 - 11:30</td>
<td>Doing Business Cross-Border - Opportunities &amp; Pitfalls</td>
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<td>Robert Maynard&lt;br&gt;Perkins Cole</td>
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<td></td>
<td>Noon</td>
<td>INDUSTRY OUTLOOK LUNCHEON</td>
<td>Sandwich Lunch</td>
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<tr>
<td><strong>THUR DEC 7</strong></td>
<td><strong>AFTERNOON</strong></td>
<td>Large Left Lateral Leaps to Geologic Buster&lt;br&gt;Hunsaker &amp; Molly Hunsaker&lt;br&gt;Hunsaker, Inc.</td>
<td>Large Left Lateral Leaps&lt;br&gt;Environmental Professionals&lt;br&gt;David Steed &amp; Ken Houser&lt;br&gt;SWCA</td>
<td>Exhibits Open 9:00-6:30</td>
<td>Coffee Break 3:35-4:20</td>
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<td></td>
<td>2:00 - 5:30</td>
<td>Finding and Accessing Capital - What Miners Should Know</td>
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<td>Tim Alch&lt;br&gt;TAA Advisory, LLC</td>
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<td></td>
<td>Noon</td>
<td>HAPPY HOUR RECEPTION IN THE EXHIBIT HALL</td>
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<tr>
<td><strong>FRI DEC 8</strong></td>
<td><strong>MORNING</strong></td>
<td>The Curt Everson&lt;br&gt;Great Basin Exploration Session</td>
<td>Mineral Processing&lt;br&gt;Metallurgical Extraction for Mining Sustainability&lt;br&gt;Abandoned Mine Lands&lt;br&gt;AMLS</td>
<td>Exhibits Open 9:00-noon</td>
<td>Coffee Break 9:35-10:20</td>
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<td></td>
<td>8:00 - 11:30</td>
<td>Greg Hill&lt;br&gt;Renaissance Gold</td>
<td>Courtney Young&lt;br&gt;CAMP &amp; Melanie Bond&lt;br&gt;Bond Mineral Svcs&lt;br&gt;Univ NV Reno</td>
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<td></td>
<td>Noon</td>
<td>Hosted Sandwich Lunch in the Exhibit Hall prior to tear down</td>
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*Exhibits Open 9:00-6:30*  
*Coffee Break 9:35-10:20*  
*Exhibits Open 9:00-noon*  
*Coffee Break 9:35-10:20*
The Standardized Reclamation Cost Estimator (SRCE) is a public domain Microsoft Excel-based tool that has been used in Nevada for more than 10 years to calculate mine closure costs for financial assurance. The SRCE uses straightforward user inputs to create a first-principles estimate of closure costs. In addition to the Nevada-specific version, another version of SRCE is available for use in other states and internationally.

Over the last two years the non-Nevada version has been significantly upgraded with numerous new features and improved performance to create SRCE 2.0. The new features greatly expand the capabilities and functionality of the model - so much that we have completely revamped our standard SRCE training short course.

Because so many of the new features focus on things like detailed cost scheduling, filtering, and tracking costs by category, we have completely updated our curriculum to focus on strategizing the model setup based on site or company specific needs, and the type and intent of the cost estimate.

There will still be a heavy emphasis on hands-on training, but after an initial few simple exercises, we will focus on closure cost types, how to set up a closure chart of accounts, developing useful filters, and effective scheduling for project-specific needs. Because the scope of the training has expanded beyond the introductory nature of previous short courses, this will be a three-day short course.

Attendees will need to bring a laptop computer and engineering scale ruler for the hands-on exercises. If users wish to bring an existing SRCE model from a previous version, we will show them the process of importing that model into SRCE Version 2.0.

MINIMIZING PERMITTING PITFALLS & DELAYS ON FEDERAL LANDS

2-Day Course (MONDAY & TUESDAY)
Cost: $350
Instructors: Kevin L. Johnson, Geologist, Minerals and Geology Management (CNO) - Regions 5 and 6, Grants Pass, OR and Ken Loda, Lead Geologist, Humboldt River Field Office Bureau of Land Management, Winnemucca, NV

This two-day workshop will cover permitting requirements and Plans of Operations under the Forest Service’s 36 CFR 228A regulations and the BLM’s 43 CFR 3809 regulations. The first day will cover the basic regulatory requirements. Presenters will then cover specific aspects of the process, including suggestions for minimizing, if not avoiding, permitting pitfalls.

On the second day, presenters will discuss their experience with the permitting process, specifically focusing on what went wrong and what worked. The workshop will close with a joint industry/regulatory panel.

1-DAY SHORT COURSES

SHORT COURSE | MONDAY DECEMBER 4

UNDERSTANDING AND RUNNING AN EFFECTIVE QA/QC PROGRAM
Cost: $300
Instructor: Todd McCracken, Manager – Mining, WSP Canada, Inc., Sudbury, ON Canada

Your project has a QA/QC program, but is it effective and does it meet the standards of best industry practice? This full day course examines various components of an effective QA/QC program, and will concentrate on how to setup and run a program in the real world.

Topics will include an in-depth look at data management, drilling, sampling, specific gravity and analytical QA/QC, including how to select a laboratory and the use of Blanks, Duplicates and Standards in the program.
Real examples of effective programs will be presented to the group with an active discussion on what should be considered minimum requirements. Tricks of the trade and cost effective solutions will be presented throughout the course. Participants will be encouraged to engage in discussions throughout the course.

SHORT COURSES | TUESDAY DECEMBER 5

U.S. MINING LAW ONE DAY SHORT COURSE

Cost $300

Course Organizer: R. Craig Johnson, Parsons Behle & Latimer, Salt Lake City, UT

This full-day course contains a comprehensive overview of the mining law in the United States relating to the acquisition, exploration, development, operation and closure of hard rock mining projects. The course provides in-depth coverage of types of land and mineral ownership in the U.S., types of mineral claims, historical and current issues under the General Mining Law of 1872, the process and issues involved in obtaining, holding and financing mineral tenures, an overview of environmental permitting, acquiring power, and an overview of water law in the western U.S. The course includes an overview of the typical methods for entering into exploration and development joint venture arrangements, including the revised Rocky Mountain Mineral Law Foundation “Form 5” limited liability company agreement, lease, purchase and sale of exploration and mining project issues, and a discussion of the standard royalty mechanisms including net smelter return and net profits interest royalties. The course also covers current significant environmental issues in the exploration and development of operations, including key air and water discharge issues, environmental impact statements, permitting of tailings facilities, bonding, and mine closure and reclamation issues. The course is ideal for persons who are interested in acquiring mining projects in the U.S., or simply wish to have a refresher on key concepts.

DESIGNING FOR NO MORE LOUSY POWERPOINT SLIDES

Cost $150

Instructors: Eric S. Cheney, Professor Emeritus, Department of Earth and Space Sciences, University of Washington, Seattle, WA and
Eric A. Cheney, CFP, Turman Financial, Corvallis OR

Learn how to prepare presentations that will keep the audience interested. The first half of the class will be classroom discussion on building presentations and public speaking. The second half will be hands-on learning. Basic knowledge of PowerPoint is required for this class. Come to class with your laptop and 4 slides that you have prepared that include text and illustrations.

FUNDAMENTALS OF MINERAL & METALLURGICAL PROCESSING

Cost: $300

Instructors: Eur-ing Dr. Corby G. Anderson QP CENG FIMMM FICHEME, Harrison Western Professor, Kroll Institute for Extractive Metallurgy, George S. Ansell Department of Metallurgical and Materials Engineering, Colorado School of Mines, Golden, CO and
Dr. Courtney Young, QP, Department Head and Lewis S. Prater Distinguished Professor, Metallurgical & Materials Engineering, Montana Tech, Butte, MT

This short course is open to anyone wanting to learn about mineral processing and extractive metallurgy operations. It is particularly good as a refresher or introductory course. In this regard, the course begins with simple concepts such as sampling, analysis (mineralogical, chemical and size), material balances and smelter schedules. It then introduces attendees to processing methods and equipment, particularly those utilized in the mining industry (but also the recycling industry as well). Various unit operations are reviewed including comminution (crushing, grinding, screening and classification), mineral separations (flotation, magnetic, gravity and electrostatic), and metal production and purification (hydrometallurgy, pyrometallurgy and electrometallurgy) as well as environmental management (dewatering, tailings disposal, and waste treatment for water, dust and air). Flowsheets of typical operations are reviewed throughout with implications on flowsheet development.

Attendees will need to bring a laptop computer.

MSHA ANNUAL SURFACE MINER REFRESHER COURSE

Cost: $20 Lunch Fee

Instructor: Tim Pruitt, EHS Manager, Boart Longyear Drilling Services, Elko, NV

MSHA Part 48 regulations require that surface mining workers complete a minimum of 8 hours of refresher training each year. This 8 Hour Surface Miner refresher class will do just that. Boart Longyear Drilling Services is offering this class at no cost to you. Prerequisite to this class is participants previously had new miner or refresher class.

Participants will receive a Certificate of Completion (MSHA 5000-23) - good for 1 year.

Nugget’s newly remodeled meeting rooms
FIELD TRIPS | TUESDAY DECEMBER 5

AGRU AMERICA, INC. FERNLEY FACILITY TOUR
Cost: $75
Choice of morning - Depart from Nugget Valet area 8:00 am return noon
or afternoon - Depart from Nugget Valet area 1:30 pm return by 4:30 pm
PPE provided
Organizer: Clark West, Mining Service, Agru America, Inc., Fernley, NV
Tour of the Agru America production facility in Fernley NV, just 30 minutes from Reno/Sparks, to witness state of the art leach pad, tails dam, pond and closure liner manufacturing with production from raw polyethylene pellets to finished goods including an extensive tour showing ASTM and GRI testing in house at our GAI/ LAP certified laboratory.
A welding demonstration will be included along with the Quality Control methods used. Also a Quality Assurance engineer will discuss the role they play in the design and installation of liners.
See the highest quality materials being manufactured that are an integral part of the mining industry from mine opening to closing.
All will find this tour interesting.

AEMA’S NORTHERN NEVADA 3-MINE VISITS TOUR
Cost: $275
Organizer: Nick Rauh, Mountain/Midwest Technical Manager, Agru America, Inc., Fernley, NV
DEPARTS FROM THE NUGGET 7:00 AM, RETURNS 6:00 PM
Maximum number is 29
Required: Steel toe boots, safety glasses, high visibility vest & hard hat
American Exploration & Mining Association will be offering a mine tour to three individual mines in the northern Nevada region. This tour will visit Coeur’s Rochester Mine, Pershing Gold’s Relief Canyon Mine and Rye Patch Gold’s Florida Canyon Mine. The tour will allow attendes to witness a gold pour firsthand at the Florida Canyon Mine. This is a great opportunity to see two world class gold mining operations and a silver mine operation.

Nugget’s newly remodeled exhibit hall area:
Nugget Ballroom (left) and Hallway (below)
**STATE & PROVINCE REPORTS (Part 1)**

Chaired by: Rich Perry, Administrator, Nevada Division of Minerals, Carson City, NV

**Area of Interest - Mineral Deposits, Geology & Exploration**

**Session Description:**

Want to hear about exploration and mining activities for the past year in western states and provinces? In this all-day session, state and province economic geologists will provide an update on the latest activities in their respective areas, and discuss new opportunities for exploration and mineral development. Speakers include:

- **Legislative Streaming of Mine Permitting in Oregon**, Ian Madin, Deputy Director & Chief Scientist, Oregon Department of Geology & Mineral Industries, Portland, OR
- **Yukon Geology, Exploration and Mining Overview**, 2017, Scott Caselman, Economic Geology, Yukon Geological Survey, Whitehorse, YT, Canada

**MINING IN SOUTH AMERICA**

Chaired by: Rob Valceschini, P.E., Mining Group Lead, Geo-Logic Associates, Inc., Sparks, NV

**Area of Interest - Mineral Deposits, Geology & Exploration**

**Session Description:**

Mining in South America involves many variables and challenges including changing political regimes, socio-economic considerations, unique environmental considerations, high altitude, extreme rainfall, rugged terrain, high seismicity and project development logistics to name a few. Despite these challenges economic mineral deposits continue to be mined and developed. This session provides insight into how these many challenges are being addressed in today’s volatile metals market. Talks include:

- **Permitting, Logistics and Socioeconomic Experience in South America**, Larry Morasse, Construction Manager, Barrick, Reno, NV
- **Seismic Design of Tailings, Heap Leach Pads and Water Storage Dams with Specific Emphasis on the High Seismicity Encountered in South America**, Dr. Neven Matasovic, P.E., G.E., Principal Engineer, Geo-Logic Associates, Newport Beach, CA
- **Mining in South America**, South American Manager, AGRU America

**GROWTH COMPANIES – Is Exploration Coming Back in Style?**

**Chaired by:** Joseph Anthony Kizis, Jr., President & Director, Bravada Gold Corporation, Reno, NV

**Area of Interest - Business & Finance**

**Session Description:**

Exploration and mining companies are again thinking about growth now that the devastating multi-year downturn in the sector appears to be largely behind us. Those companies that survived are positioning themselves to take advantage of increased investor interest in their assets, and new companies are being formed to explore for and to develop mineral deposits. Exploration, particularly in safe jurisdictions like Nevada, is again being funded. You can’t find if you don’t look after all, and sooner or later that means sufficient funding to conduct drilling.

We will begin this session with a market perspective of what growth means to investors, and then several companies will present their plan to deliver growth to their shareholders. Talks include:

- **Trends in Exploration Financing**, John Kaiser, Founder, Kaiser Research Online, Moraga, CA
- **Profitable Growth Through Consolidation of Three Mines and A Mill in Northern Nevada**, Brian Morris, Senior Vice President, Exploration, Klondex Mines Ltd, Reno, NV
- **Gold Resource Corporation Nevada - An Emerging Producer**, Joy Lester, Chief Geologist, Gold Reserve Corporation, Denver, CO
- **Paramount Gold Nevada Corp.; Unlocking Value through Acquisition and Enhancement of US Gold Properties**, Glen Van Treek, President, CEO, Director, Paramount Gold Nevada Corp., Winnemucca, NV
- **Contact Gold - A New Look at the Pony Creek Project, Southern Carlin Trend**, Matt Lennox-King, President/CEO, Contact Gold Corp., Vancouver, BC, Canada
- **Innovative Financing of Discoveries and Mineral Exploration - Riverside Resources, Inc., John-Mark Staude, President/CEO, Riverside Resources Inc., Vancouver, BC, Canada

**UNDERGROUND TECHNOLOGY AND INNOVATIONS TO OPTIMIZE EFFICIENCIES**

**Chaired by:** Ian McMullen, Klondex Mines Ltd., Reno, NV

**Area of Interest - Operations**

**Session Description:**

The aim of this session is to align selected mining methods, reflecting current ore control and modeling practice, with applicable mining technologies where doing so enhanced profitability by maximizing value through improved grade, minimal dilution, and protection of costs. Presentations should include any relevant experiences, applicable real world solutions, and clearly demonstrate current or future efficiencies associated with mining method selection. Talks include:

- **Auxiliary Ventilation Best Practices for Optimized Underground Operations**, Pedram Rostami, PhD, CAPM, Project Manager, Stantec, Tempe, AZ
- **Installation of a Thin Spray-on Liner Ground Support System at the Cote Blanche Mine Production Shaft**, Greg Sutton, Project Manager, Cementation USA Inc., Sandy, UT

(continued on next page)
TECHNICAL SESSIONS

MORNING SESSIONS | WEDNESDAY DECEMBER 6... (Continued)

SESSION TIMES: 8:00 - 11:30 COFFEE BREAK 9:35 - 10:20

(Underground Technology... continued)

- GeoShack, Dan Hendriks, VP Sales - Mining Group, GeoShack, Dallas, TX
- Re-Thinking Grade Control in Narrow Vein and Other Highly Selective Underground Mine Situations, Donald Eugene Cameron, Principal Cameron Resource Consulting, LLC, Liberty Lake, WA

BASELINE SUCCESS: The Path to Efficient Permitting

Chaired by: Benjamin Veach, P.E., Principal, Stantec Consulting Services, Inc., Reno, NV

Area of Interest - Environmental

Session Description:

State and Federal permitting requirements continue to change throughout the mining life cycle. The costs of Exploration, Mining, and Reclamation are tied to complex schedules and require a comprehensive approach to properly manage the expenditure of increasing amounts of capital.

This session is designed to explore current topics and to discuss impacts to schedules from the paradigm of environmental and cultural aspects of permitting in mining. The various elements from the Plans of Operations through NEPA permitting and on to Reclamation for both mines and exploration projects will be discussed. Meet the people that can explain current Sage-grouse rules in plain English. Hear how experts approach to properly manage the expenditure of increasing amounts of capital. Gain insights from the regulatory perspective that see things work as they should. Talks include:

- Baseline Groundwater as a Foundation on which to Build a Successful Permitting Action, Rachael Peavler, MS, Hydrologist and NEPA Specialist, MWH Global, Salt Lake City, UT
- Greater Sage-grouse: Baseline and Mitigation Requirements Post ARMPA, Christopher Jasmine, Rangeland Ecologist, Newmont Mining Company, Elko, NV
- Navigating Cultural Resource Baseine Studies; Implementing Section 106, Jason Spidell and Barbi Malinky Harmon, Kautz Environmental Consultants, Inc., Reno, NV
- Baseline Studies, Success and Failure, Mark Hall, PhD, Field Manager, Winnemucca District, Bureau of Land Management, Winnemucca, NV
- Changes in the Proposed Requirements for EA’s land EIS’s; the Secretarial Order, Michele Lefebvre, PhD, NEPA Project Manager, Stantec, Keaau, HI

BEFORE YOU DIG: Talk to your landman!

Co-chaired by: Cathy Suda, Manager, US Land & Assets, Teck American Incorporated, Spokane, WA and Tracy O. Guinand, Professional Consultant, Tracy Guinand Land, LLC, Reno, NV

Area of Interest - Legislative & Public Affairs

Session Description:

It takes more than just locating your claims to conduct mineral exploration and development. This session, developed with assistance from the Nevada Landman’s Association, will provide overviews of importance for surface access and use of land, water law, joint venture agreements and other requirements for claim holders. Talks include:

- Surface Access and Use for Mining Projects on Federal Lands, Wells Parker, Partner Energy & Natural Resources and Ben Machlis, Partner Regulatory Affairs Group, Dorsey & Whitney LLP, Salt Lake City, UT
- Water Law, Jeff Faillers, Attorney at Law, Harris, Thompson & Faillers, Reno, NV
- The Good The Bad and the Ugly— The Benefits and Burdens of Mining Claim Ownership on Federal Lands and Associated Environmental Risks (CERCLA and more), Joshua Cook, Partner, Energy, Environment & Natural Resource, Crowley Fleck PLLP, Billings, MT
- Joint Venture Agreements Now, Laura K. Granier, Partner, Holland and Hart, Reno, NV

AFTERNOON SESSIONS | WEDNESDAY DECEMBER 6

SESSION TIMES: 2:00 - 5:30 COFFEE BREAK 3:35 - 4:20

STATE & PROVINCE REPORTS (Part 2)

Chaired by: Rich Perry, Administrator, Nevada Division of Minerals, Carson City, NV

Area of Interest - Mineral Deposits, Geology & Exploration

Session Description:

Want to hear more about exploration and mining activities for the past year in western states and provinces? In this all-day session, state and province economic geologists will provide an update on the latest activities in their respective areas, and discuss new opportunities for exploration and mineral development. Talks include:

- Mining Issues Facing New Mexico in 2017, Virginia McLemore, Senior Economic Geologist, New Mexico Bureau of Geology and Mineral Resources, Socorro, NV
- Gold in the Selwyn Basin: more than just a base-metal province, Patrick Sack, Economic Geologist, Yukon Geological Survey, Whitehorse, YT, CANADA
- Nevada Mineral Exploration Update, John Muntane, Director, Center for Research in Economic Geology, Nevada Bureau of Mines and Geology, University of Nevada Reno, Reno, NV
- USGS Update, Tom Crafford, Mineral Resources Program Chairman, US Geological Survey, Reston, VA
- Alaska’s Mineral Industry in 2017: Mine and Exploration Updates, Mike Catsi, Business Development and Communications Director, Alaska Industrial Development and Export Authority, Anchorage, AK
NEW MINING IN OLD DISTRICTS

Chaired by: Tim Arnold, Vice President of Operations, Pershing Gold Corp., Lovelock, NV

Area of Interest - Business & Finance

Session Description:

It has been said that the best place to explore for a new mine is next to an old one. Considering land ownership, infrastructure, and improved prices for commodities, old mining districts are certainly getting scrutinized. This session will feature new(ish) mines and projects that are in or near production in historic mining districts. They will update us with the status of the project or operation, and hopefully bring back some memories of places many of us have worked or visited. Or, read about in history books… Talks include:

- The Restoration and Redevelopment of the Stibnite Gold Project, John Meyer, Vice President Development, Midas Gold Idaho, Inc., Boise, ID
- The Hasbrouck Project, Sandy McVey, COO, West Kirkland Mining, Inc., Vancouver, BC, CANADA
- Restarting the Revenue-Virginius Mine - You Can Teach a New Miner Old Tricks, Brian Briggs, CEO, Ouray Silver Mines, Inc., Ouray, CO
- Can Mining in Michigan be Great Again?, Denis Miville-Deschênes, President and CEO, Highland Copper Company, Inc., Longueil, QC, CANADA
- The Reopening of Relief Canyon, Tim Arnold, Vice President Operations, Pershing Gold Corporation, Lovelock, NV
- Premier’s Cove Project: To Mine or Not to Mine?, Brent Kristof, Senior Vice President Operations, Premier Gold Mines Limited, Reno, NV
- Can Mining in Michigan be Great Again?, Denis Miville-Deschênes, President and CEO, Highland Copper Company, Inc., Longueil, QC, CANADA

SURFACE MINING - ADVANCED TECHNOLOGIES FOR THE INDUSTRY

Chaired by: Kanaan Hanna, Mining Engineer, Consultant, Littleton, CO

Area of Interest - Operations

Session Description:

This session will cover technological advancement and case studies that have improved safety, productivity, and lowered costs in open pit mining operations. Topics will include, open pit optimization, geotechnical monitoring and modeling, blasting, autonomous equipment, 2D/3D satellite imagery and geological mapping, business improvements, and maintenance practices. Talks include:

- UAV Applications for Mine Tailings Surveying and Monitoring, Johnny Lyons-Baral, Applications Engineer, Hexagon Mining, Tucson, AZ
- Probability Theory in Pit Slope Stability Evaluation, James A. Cremeens, Chief Geotechnical Eng./Sr. Executive Manager, Knight Piésold & Co., Denver, CO
- It’s All About The Data, David Prance, Director Business Development, Trimble Mining, Willetton, WA, AUSTRALIA

NEW MINING IN OLD DISTRICTS (Continued)

- The Restoration and Redevelopment of the Stibnite Gold Project, John Meyer, Vice President Development, Midas Gold Idaho, Inc., Boise, ID
- The Hasbrouck Project, Sandy McVey, COO, West Kirkland Mining, Inc., Vancouver, BC, CANADA
- Restarting the Revenue-Virginius Mine - You Can Teach a New Miner Old Tricks, Brian Briggs, CEO, Ouray Silver Mines, Inc., Ouray, CO
- Can Mining in Michigan be Great Again?, Denis Miville-Deschênes, President and CEO, Highland Copper Company, Inc., Longueil, QC, CANADA
Afternoon Sessions | Wednesday December 6... (Continued)

Cultural Resources Best Practices: Planning, Implementing and Troubleshooting - Understanding the Process and Divining Future Trends in Cultural Resource Issues in Mining Projects

Co-Chaired by: Tom Lennon, Ph.D., RPA, President Western Cultural Resource Management, Inc., Boulder, CO and Connie Rogers, Partner, Davis Graham & Stubbis LLP, Denver, CO

Area of Interest - Environmental

Session Description:

This technical session discusses best and evolving practices for National Historic Preservation Act (NHPA) Section 106 compliance and mitigation. We will again focus on planning, implementation and trouble-shooting issues, along with tips and strategies for engaging in a production discussion with state and federal agencies and other stakeholders. At the initial planning stages, industry has the best opportunity to understand and manage levels of effort, schedules, reporting, agreement document stipulations, mitigation measures, monitoring, discoveries, and more. Using hard-earned experience, we will explore means of cooperation to make the process more efficient and effective. This session will also address how, and whether, to coordinate NEPA compliance with NHPA 106 Process compliance. This session will also address state cultural resources laws and offer suggestions for coordinating compliance with both state and federal standards.

The presentation will involve panel member presentations and discussion with participants. In addition to Tom and Connie, we are assembling a panel of experts to join us in this discussion. Panel members include:

- Tom Lennon, Ph.D., RPA, President Western Cultural Resource Management, Inc., Boulder, CO
- Connie Rogers, Partner, Davis Graham & Stubbis LLP, Denver, CO
- Laura Granier, Partner, Holland & Hart, Reno, NV
- Karen Bennett, Attorney at Law, Environment Energy & Natural Resources, Clark Hill, Washington, DC

Dont forget your tickets: Welcoming Luncheon - $50 Industry Outlook Luncheon - $50 Exhibit Hall Sandwich Lunch - $15 Drink Tickets $6

Morning Sessions | Thursday December 7

Mining Development in the Midwest: Great Lakes States Operations and Development Projects

Chaired by: Frank Ongaro, Executive Director, Mining Minnesota, Duluth, MN

Area of Interest - Mineral Deposits, Geology & Exploration

Session Description:

The advancement of base and precious metal mining development projects is bringing opportunity to the Midwest. Great Lakes States are attracting global investment and poised to lead the way in responsible development of the metals that make our modern society possible.

This session will highlight several of the development projects and proposals moving forward in the region and their exemplary efforts toward environmental responsibility. Talks include:

- Permitting & Litigation Update, Brad Moore, Executive VP, Environmental and Governmental Affairs, PolyMet Mining, Hoyt Lakes, MN
- Managing Costs and Expanding Operations, Matt Johnson, External Relations Manager, Eagle Mine, Skandia, MI
- Project (Engineering) Update, Glenn Barr, Director of Engineering, Twin Metals Minnesota, St. Paul, MN
- Building a Safety Centered Team: A Drilling Company’s Perspective, Julian J. Collins, President and CEO, IDEA Drilling LLC, Virginia, MN
- Resurgence of Gold Exploration in Upper Midwest Greenstone Belts, William F. Rowell, CPG, Consultant, Minneapolis, MN
- Policies, Politics, and Projects: Are Midwest States Inviting Investment?, Stephen V. Donohue, PH, Vice President - Mining, Foth Infrastructure & Environment, LLC, Green Bay, WI, and Frank Ongaro, Executive Director, Mining Minnesota, Duluth, MN

Lithium - What is in your battery? Where does the Lithium come from? Where will it come from?

Co-Chaired by: Ruth A. Carrather, Geologist, C&M Consultants, Reno, NV and Paul Dockweiler, Senior Geologist, Geosyntec Consultants, Las Vegas, Nevada

Area of Interest - Mineral Deposits, Geology & Exploration

Session Description:

Lithium Brines are presently the largest source of Li production, with Li-bearing pegmatites having been an historically significant source. Lithium is presently being produced from brines in Nevada, Argentina, Bolivia, Chile, and China, and production from pegmatites in Australia. Development of pegmatites in Canada, China, and Finland is in progress, as well as development of Li-bearing clays in Serbia and Mexico.

This session will cover the geology of Li brines, Li-bearing pegmatites, Li-bearing clays, and the relationship of high Lithium content to the melting of continental crust and subsequent caldera development. Talks include:
TECHNICAL SESSIONS

MORNING SESSIONS | THURSDAY DECEMBER 7... (Continued)

(Lithium continued)

• Li Enrichment in Intracontinental Rhyolite Magmas Leads to Large Li Clay Deposits in Caldera Basins, Tom Benson, Researchers, Stanford University, Stanford, CA

• Lithium-bearing Clays in the Western United States: Mineralogy and Lithium Content, Lisa Stillings, Research Geologist, USGS, Reno, NV

• Rhyolite Ridge - A Hydrothermal Lithium-boron Deposit, Esmerlada County, Nevada, Bernard Rowe, Managing Director, Global Geosciences Ltd., North Sydney, NSW, AUSTRALIA

• Emplacement and Characteristics of Economic Spodumene Pegmatites, Gary Pearce, MSc Geol, P.Eng., Equapolar Research, Ottawa, ON, CANADA

• Do Geothermal Systems Play a Role in Lithium Brine Enrichment in Nevada Playas?, Catherine Hickson, Director, COO, Dajin Resources Corp., Vancouver, BC, CANADA

• Lithium Supply and Market; Past, Present and Future, Pablo Cortegoso, Consultant - Lithium Projects Development, SRK Consulting, Denver, CO

ALASKA

Co-Chaired by: Deantha Crockett, Executive Director, Alaska Miners Association, Anchorage, AK and Mike Satre, Manager of Government and Community Relations, Hecla Greens Creek Mining Co., Juneau, AK

Area of Interest: Operations

Session Description:
Alaska’s mining industry is seeing big changes in 2017, and thanks to changes within the federal government, for the better. Hear from industry representatives on an uptick in exploration investment, new partnerships to pursue mineral deposits, how industry is responding to rapidly changing regulation, and how the State is leveraging its place as a top mineral potential jurisdiction. Talks include:

• Alaska Mining 2017: the State of the State, Curt Freeman, President, Avalon Development Corp, Fairbanks, AK

• Reform at the Department of the Interior, Steve Wackowski, Senior Advisor to the Secretary, Alaska, U.S. Department of the Interior, Anchorage, AK (Tentative)

• Geology and Mineralization of the Main and North Peak Au-AG-CU Deposits, Peak Project, Alaska, Curt Freeman, President, Avalon Development Corp., Fairbanks, AK (speaker) and Brad Juneau, President, Contango ORE, Inc., Houston, TX

• Trilogy Metals: Advancing the Ambler Mining District in Alaska by Forming String Partnerships, Rick Van Nieuwenhuysen, President, Trilogy Metals, Vancouver, BC CANADA

• Pebble: A Path Forward, John Shively, Chairman, Pebble Project, Anchorage, AK

• Resource Expansion at Coeur Alaska Kensington Gold Mine (Jaulin Exploration Drilling Project) Michelle Deal, Exploration Geologist, Coeur Alaska- Kensington Gold Mine, Fairbanks, AK

MINE CLOSURE AND RECLAMATION

Chaired by: Dustin Wasley, PE, Principal Engineer, GeoEngineers, Spokane, WA

Area of Interest: Environmental

Session Description:
The mining industry and land management agencies contend with significant technical, legal, and financial considerations for mine closure. Mine closure challenges run the gamut from remediating turn-of-the-century abandoned/inactive mines to closing modern operations. This session will present case studies and technical presentations on closure criteria and approaches from the mining industry and land management agencies. Talks include:

• Overview of Nevada’s Mine Closure and Reclamation Programs, Thomas Gray, Closure Branch Supervisor, Nevada Division of Environmental Protection, Carson City, NV

• Mother Lode Mine - Re-examining Mercury Bioaccumulation Following Hot Spot Removal Action, 15 years later, Ryan Tobias, Senior Biologist, GeoEngineers, Bend, OR

• A Case Study for Final Closure of a Mine Site, Santa Fe Calvada Mine, Nevada, John Cooper, Principal Engineer, SRK Consulting, Elko, NV

• Mineral Hill - From Mine to Wildlife Corridor, Debbie Johnston, Vice President - Mining, Morrison Maierle, Missoula, MT

(continued on next page)
TECHNICAL SESSIONS
MORNING SESSIONS | THURSDAY DECEMBER 7... (Continued)

(Mine Closure and Reclamation... continued)

- Khayyam Mine EE/CA: Investigation Challenges and Risk-Based Justification for No-Action Response. Tongass National Forest, Alaska, John Bingham, Senior Associate Engineer, Hart Crowser, Seattle, WA

PUBLIC LANDS SESSION -
Capitalizing on Recent Executive and Secretarial Orders to Reduce Barriers to Mineral Exploration and Development on Public Lands

Chairied by: Debra Struhsacker, Senior Vice President, Pershing Gold Corporation, Lovelock, NV

Area of Interest - Legislative & Public Affairs

Session Description:
President Trump’s recent regulatory reform and public lands Executive Orders and Interior Secretary Zinke’s Secretarial Orders hold great promise in reducing some of the impediments to mineral exploration and development on the Nation’s public lands. This session will focus on opportunities for the mining industry to work with the Trump administration to capitalize on these Executive and Secretarial Orders. Session speakers will present ideas for using the Executive and Secretarial Orders to reduce land use and access restrictions, to shrink or revoke some withdrawals, and to improve the permitting process. Talks include:

- Keynote Speaker: Secretary Zinke’s Secretarial Orders, Kathleen Benedetto, Senior Advisor, BLM, Washington, DC
- The Office of Management and Budget’s Role in Executive Orders, Danielle Jones, Senior Policy Analyst, Office of Management and Budget (invited), Washington, DC
- The Trump Administration’s Use of Executive Orders to Shape its Regulatory Reform Agenda, Thomas Perry, Partner, Marten Law, Boise, ID
- An Effective AND Efficient NEPA Process – Secretary Zinke’s NEPA Streamlining Order and Beyond, Laura Granier, Partner, Holland & Hart, Reno, NV
- Public Policy Benefits of Privatizing Public Lands, Allen Freemyer, President, Freemyer & Associates PC, Washington, DC

AFTERNOON SESSIONS | THURSDAY DECEMBER 7

SESSION TIMES: 2:00 - 5:30  COFFEE BREAK 3:35 - 4:20

LARGE LEFT LATERAL LEAPS TO GEOLOGIC


Area of Interest - Mineral Deposits, Geology & Exploration

Session Description:
This year we will continue the tradition of provocative talks, accentuated by “inspired” discussions and commentary. Of course we will count on (un)conventional beverages to help. The session is targeting presentations on the cutting edge of exploration science. This is a forum for unusual deposit types and a chance to bring to the light of day new and/or great leaps in exploration, exploration technology, exploration philosophy, or the development of mineral projects. Talks include:

- Soil Survey from Hell, Alan Morris, Consulting Geologist, RMGIS, Spring Creek, NV
- Pumpelly’s Rule Revisited: the Great Falls Tectonic Zone and Idaho-Montana Porphyry Belt and the itsy bitsy structures in the big ore deposits in between, Chris Dail, Exploration Manager, Mida Gold Idaho, Inc., Donnelly, ID
- Drilling Optimization, Clint Streadbeck, Country Manager, USA, AMC USA, LLC, Salt Lake City, UT
- Thinking Slow and Slower: Exploration, Cognition and Geo-logical Fallacies, Geoff Burtner, Geologist, Oriented Targeting Solutions, Sacramento, CA
- UFO’s, Seismotectonics, Wave-Energy Funneling and Precious Metals. Mysterious connections between (super)natural phenomena, an eclectic dissertation project & mineral exploration, Justin Millard, University Nevada-Reno, Reno, NV

FINDING AND ACCESSING CAPITAL - What Miners Should Know

Chairied by: Tim Alch, Financial Analyst, Managing Partner, TAA Advisory LLC, Edgewater, NJ

Area of Interest - Business & Finance

Session Description:
Your discovery, project and or mining company is at a point where more capital is needed: What should you think about? Do in advance? What types of capital are best? What is the impact of capital available? Including streaming, royalty, off-take agreements, etc.? What are recent trends in mining finance? What has changed in the past year? Join us for a lively discussion with leading experts who will talk about recent deals done and answer your questions. Talks include:

- Accessing Mineral Discovery and Early Stage Development Capital Current Trends and 2018 Outlook, John Mark Staude, President, CEO, Riverside Resources, Inc., Vancouver, BC CANADA
- Accessing Capital - How Funding Exploration, Development, Operations & Closing are Adjusting to the New Normal for Mining, Alain Haliimi, Head of Metals Mining Americas, Commonwealth Bank of Australia, New York, NY
- Role of QP’s in Making a Resource/Reserve Report Useful for Bankers and Investors - Key points that make a report trustworthy, Abani Samal, Principal, GeoGlobal LLC, Salt Lake City, UT
MINING HYDROLOGY

Co-Chaired by: Ronald T. Parratt, Environmental Specialist, Newmont, Reno, NV and Mike Hardy, P.E., P.G., WRS, Project Manager, Lomus & Associates, Reno, NV

Area of Interest - Operations

Session Description:

Water as it relates to or is impacted by mining activities has rapidly become a critical aspect to how mining companies and their sites operate. Surplus supply, deficit supply, operations, process, monitoring, permitting, and reclamation activities on site and within the mining communities affect the mining process. This session seeks to provide information as it relates to the water activities, and challenges of mining companies and their sites, and to foster communication to address the water challenges of the mining industry. Talks include:

- Hydrologic Evaluation of the Yankee Doodle Tailings Impoundment, West Ridge Area, Silver Bow County, Montana, Robert Anderson, Senior Hydrogeologist/Water Specialist Principal, Hydrometrics, Inc., Helena, MT
- A Method to Incorporate Highwall Runoff into Pit-Lake Water Balance Calculations, Connor Newman, Hydrogeohemist, Nevada Division of Environmental Protection, Carson City, NV
- Electronic Leak Detection and Leak Location Methods on Geosynthetic Liners in the Mining Industry, Shawn Calendine, Geoscientist/Marketing & Development Director, hydroGEOPHYSICS, Inc., Tucson, AZ
- Crossroads-Pipeline Pit Expansion Dewatering, 2017 Update, Brian Peck, Senior Hydrogeologist, Barrick Gold of North America - Cortez Mine, Crescent Valley, NV
- Water Pollution Control Permitting in Nevada for Metals Mining, Shawn Gooch, Staff Engineer, Bureau of Mines Regulation and Reclamation, Carson City, NV

EMBRACING ONLINE TOOLS FOR REPUTATION MANAGEMENT & EXTERNAL OUTREACH

Chaired by: Trevor Hall, President, Clear Creek Digital, Wheat Ridge, CO

Area of Interest - Legislative & Public Affairs

Session Description:

Communication tools, particularly social and online networks, are becoming increasingly important to the external communications and outreach of a mining operation. This session will provide an environment where mining professionals can learn current communication trends for brand and reputation management, crisis communication, and online external outreach. Talks include:

- Mining and the Paradigm Shift in Communications: Why it Matters for the Industry, Trevor Hall, President, Clear Creek Digital, Wheat Ridge, CO
- Perception is Reality: Engaging the Public in the Information Age, Adam Hawkins, President, Global External Relations, Phoenix, AZ
- Engaging New Stakeholders and Investors using Online Communications, Sean Kingsley, Vice President Finance, Secova Metals Corp., Vancouver, BC, Canada
- When in Crisis, Choose Social Media, Devon Coquillard, Communications & Outreach Manager, American Exploration & Mining Association, Spokane, WA
- Legislative & Public Affairs: Affectively Building Public Awareness Accurately Using Emerging Technologies, Shane Goosney, Senior Project Specialist, Stantec, Tempe, AZ

LARGE LEFT LATERAL LEAPS FOR ENVIRONMENTAL PROFESSIONALS – IF I RAN THE WORLD...

Chaired by: David Steed, Mining Business Line Lead and Ken Houser, Senior Principal, SWCA Environmental Consultants, Salt Lake City, UT

Area of Interest - Environmental

Session Description:

Representatives from agencies, industry, legal firms, and the political world, discussing how they would change the regulatory and permitting landscape. Each speaker has one slide to show how they would change the permitting process. Open forum discussion focusing on such potential topics as:

- What should the Trump administration do in 2018 to make America Great Again?
- Long-term liabilities, how can we limit our exposure—or at least quantify them—while still being a responsible miner?
- What is the ONE thing that could be done right now to make NEPA work for everybody—agencies, mining companies, environmental groups?
- What is the ONE thing that Congress could change to make NEPA work for everybody in the long-term?
- Endangered Species Act—does it go too far? How can it work better?

Panel members include:

- Connie Rogers, Partner, Davis Graham & Stubbs, Denver, CO
- Katherine Arnold, Director of Environment, Rosemont Copper Company, Tucson, AZ
- Christopher Thomas, Partner, Perkins Coie LLP, Phoenix, AZ
- Gene Weglinski, Senior Permitting Coordinator, Donlin Gold, LLC, Anchorage, AK
- Nick Enos, Principal Geoscientist, BGC Engineering, Bend, OR
- Ron Rimelman, Vice President Environment, Health, Safety & Sustainability, NovaGold, Salt Lake City, UT
MORNING SESSIONS | FRIDAY DECEMBER 8
SESSION TIMES: 8:00 - 11:30 COFFEE BREAK 9:35 - 10:20

THE CURT EVERSON GREAT BASIN EXPLORATION SESSION

Chaired by: Greg Hill, Principal Geologist, Renaissance Gold, Reno, NV

Area of Interest: Mineral Deposits, Geology & Exploration

Session Description:
As exploration in the Great Basin heats up once again, alongside a rising gold equities market, interesting geological concepts are being developed and tested. With an increasing need for new mines, more companies are exploring early-stage prospects that present real opportunities for discovery. Because surficial indications of mineralization can often be more subtle than in the past, creative approaches and innovative thinking, applied along with conventional boots-on-the-ground exploration, are as important as ever. This session will highlight early-stage exploration projects, some of which have seen significant activity in the past, along with others that may be less familiar. Talks include:

- What’s Going on on the West Side of the Osgood Mountains?, Ann Carpenter, COO Osgood Mountains Gold, Reno, NV
- The Keystone District on the Cortez Trend: An applied, comprehensive gold exploration program to a large early Tertiary gold-bearing hydrothermal system, Dave Mathewson, Vice President Exploration, US Gold Corporation, Elko, NV
- The Eastside Gold Deposit - a New Discovery in Esmeralda County, Nevada, Andy Wallace, President Columbus Gold NV, Cordex Exploration Co., Reno, NV
- Relationship of Mineralization to Dome Formation at the Gilbert South Property, Nye County, Nevada, Mark Coolbaugh, Chief Geoscientist, Renaissance Gold, Inc., Reno, NV
- The Goldbanks Project: A lot of high grade smoke, but where’s the fire?, Chad Peters, Exploration Manager, Nevada, Premier Gold Mines Ltd, Reno, NV

MINERAL PROCESSING/EXTRACTIVE METALLURGY FOR MINING SUSTAINABILITY

Co-Chaired by: Melanie M. Bond, PE, Owner/Principal Engineer, Bond Minerals Services and Engineering, PLLC, Lead, SD and Dr. Courtney Young, Department Head Metallurgical and Material Engineering, Lewis S Prater Distinguished Professor, Montana Tech, Butte, MT

Area of Interest - Operations

Session Description:
A selection of papers intended to inform early stage project managers of the many mineral processing and metallurgical testing options available to support the development goals of the project while promoting an early look towards environmental sustainability of future operations. Talks include:

- Global Mining Capital Estimation and Project Execution Failure, Dr. Corby Anderson, Harrison Western Professor, Department of Metallurgical & Materials Engineering, Colorado School of Mines, Golden, CO
- The Use of Pilot Scale HPGR Crushing in Metallurgical Testing for Heap Leach Optimization, David Kruth, Metallurgical Engineer, Kappes Cassidy and Associates, Reno, NV
- Prediction of Performance of a Vertical Stirred Mill Using a Bond Ball Mill, Danielle Rocha, PhD Candidate, Dept. of Metallurgical Materials Engineering, Colorado School of Mines, Golden, CO

(Mineral Processing... continued)

- Key Critical Support for Exploration and Project Development Using Automated Mineralogy, Sarah Prout, Senior Mineralogist, SGS Minerals Services, Burnaby, BC CANADA
- Pyroprocessing of Copper Smelter Slag into Reusable Products, Natalie Deringer, Student, CAMP, Montana Tech, Butte, MT
- Mining Sustainability by Tailings Repurposing and Water Treatment, Dr. Courtney Young, Dept. Head Metallurgical and Material Engineering, CAMP, Montana Tech, Butte, MT

ABANDONED MINE LANDS (AMLs)

Chaired by: Ronald Breitmeyer, Assistant Professor of Geological Engineering, University of Nevada, Reno

Area of Interest - Environmental

Session Description:
There are an estimated 400,000 abandoned mine features in the State of Nevada alone. Those features include everything from minor prospect ground disturbances to massive mill sites and tailings disposal areas, generally classified as physical safety hazards or environmental hazards. Of the 400,000 features some estimate as many as 20,000 of those may pose environmental hazards and risks to human health or the environment. There is considerable uncertainty about the environmental risk factors posed by abandoned mine lands (AMLs) due to limited records and data available for many of these sites. Additionally, given the vast number of sites likely to exist, there is a dearth of current site characterization and investigation. The Nevada Abandoned Mine Lands Environmental Team (NAMLET), led by the NDEP AML Program, is a coalition of several state and federal agencies, members of the mining industry, as well as non-profit organizations and the Nevada System of Higher Education, with a common goal to formulate ideas and solutions for characterizing and remediating environmental risks posed by AML hazards.

This session would include presentation of collaborative projects between NDEP, the University of Nevada, federal agencies, and private industry aimed at developing tools and human resources in the interest of correcting environmental issues created by historical and legacy mining activities. This session would provide an opportunity to share interesting projects among those interested in AML issues, and learn from others working in the field. The session would also provide opportunity to share ideas and reflections on AML issues amongst all stakeholders. Talks include:

- Academic-Agency-Stakeholder Partnerships for AML Research and Development, Assistant Professor of Geological Engineering, University of Nevada, Reno
- Bridging Soft Soils and Voids when Reclaiming Abandoned Quarries, Marco Isola, Erin Michaels and Phil Sledge, MaccAferr, Inc.
- Monte Cristo Mining Area Non-Time-Critical Removal Action: Challenges Overcome and Lessons Learned, Bernard Kronschnabel, Cascade Earth Sciences
- AML Project: Inventory and Characterization of Inactive/Abandoned Mine (AML) Features in New Mexico, Virginia McMileare, New Mexico Bureau of Geology and Mineral Resources
- Effects of Modeling Decisions on Bounding Estimates of Percolation at an Unlined Tailings Disposal Facility with Limited Monitoring Data, Spencer Whitman, University of Nevada, Reno
MORNING SESSIONS | FRIDAY DECEMBER 8... (Continued)

MINE CLOSURE AND REMEDIATION

Chaired by: Nick Rauh, Mountain/Midwest Technical Manager, Agru America, Inc., Fernley, NV

Area of Interest: Environmental

Session Description:

Mine closure is a critical component of environmental management in the mining industry. A thorough mine closure and reclamation plan is a complicated and often overlooked aspect in the design life of a site. This session will present technical presentations and case studies on the closure and remediation process from shut down to post-closure monitoring from mining professionals and land management agencies. Talks include:

- **The Value of a Detailed Temporary Closure Plan - Save Your Assets**, Steve Boyce, P.E. Principal Consultant, SRK Consulting, Inc., Elko, NV
- **Closure of Waste Rock Facilities in Nevada Using Composite Covers, a Modern Solution to Historical Issues**, Chris MacMahon, Senior Engineer, Golder Associates, Reno, NV
- **Lowering the Carbon Footprint and Extending the Life-Cycle of Metal and Coal Surface Mines**, Raymond Donelick, Business Development Manager, BiMBy Power Company, Viola, ID
- **Critical Geohydrologic Aspects of Evaporation-Cells for Process Solution Management**, Rob Valceschini, P.E. Principal Engineer, Geo-Logic Associates, Reno, NV

LEGISLATIVE & REGULATORY AFFAIRS

Chaired by: Laura Skaer, Executive Director, American Exploration & Mining Association, Spokane, WA

Area of Interest: Legislative & Public Affairs

Session Description:

The Trump administration has brought renewed optimism for our industry. Industry experts and congressional staff will offer their insights on key legislative, regulatory and judicial issues facing the industry. Topics to be discussed may include: Greater Sage-grouse; CERCLA 108(b) financial assurance; Strategic and Critical Minerals legislation; Permitting reform; Mining Law reform; Waters of the U.S. rulemaking; and what to expect in 2018. Topics will be narrowed prior to the meeting.

Speakers include:

- **Congress and Project Streaming: Past, Present, and Future**, Fred R. Wagner, Partner, Venable LLP, Washington, DC
- **Kathleen Benedetto**, Senior Advisor BLM, Washington, DC
- **Matt Ellsworth**, Government Affairs Manager, American Exploration & Mining Association, Spokane, WA
- **Others to be determined as issues are finalized**
2017 ANNUAL MEETING SPONSORSHIP OPPORTUNITIES

Your sponsorship dollars help to defray the costs associated with the Annual Meeting and allows you the opportunity to enhance your visibility among the industries most influential business leaders. Sponsor’s names will appear on the AEMA website, in The Bulletin, in Annual Meeting brochures and at the Annual Meeting.

PLEASE LIMIT YOUR CATEGORIES TO 3 PER SPONSORSHIP.

SHORT COURSE SPONSORSHIPS (per day)
• Coffee Breaks ■ Monday ■ Tuesday $ 500 $ 4,000
• Lunches ■ Monday ■ Tuesday $ 500 $ 4,000

RECEPTIONS
• Tuesday - Awards & Recognition Reception $ 2,500 N/A
• Wednesday - Welcoming Reception in the Exhibit Hall $ 2,500 N/A
• Thursday - Happy Hour Reception in the Exhibit Hall $ 2,500 N/A
• Thursday - Young Professionals Mixer $ 500 N/A

EXHIBIT HALL TECHNICAL SESSION BREAKS (each break)
• Morning ■ Wednesday (Thursday is full) ■ Friday $ 500 N/A
• • Friday morning Moose Milk $ 500 $ 1,500

MEALS
• Wednesday - Welcoming Luncheon $ 2,500 N/A
• Wednesday - Exhibit Hall Sandwich Lunch $ 250 N/A
• Thursday - Government Industry Breakfast (sponsorship is full) N/A N/A
• Thursday - Industry Outlook Luncheon $ 2,500 N/A
• Thursday - Exhibit Hall Sandwich Lunch $ 250 N/A
• Friday - Hosted Exhibit Hall Sandwich Lunch $ 250 N/A

GENERAL SPONSORSHIP OPPORTUNITIES
Registration Bag (sponsorship is full) N/A N/A
• Student Travel Aid $ 300 N/A
• General Convention Sponsors $ 100 N/A

TECHNICAL SESSIONS
• Technical Session Sponsors $ 500 N/A
• Thursday Traditional LLLL Session - beer $ 100 N/A
• Thursday Environmental LLLL Session - beer $ 100 N/A

EXHIBIT HALL
• Core Shack Displays $ 500 N/A
• Student Poster Session $ 300 N/A
• Exhibit Hall Bars $ 500 $ 2,500

2017 Annual Meeting Sponsorship Agreement
Complete this form and return it by mail to AEMA 10 N Post Street, Ste. 305, Spokane, WA 99201-0705; by fax: (509) 623-1241 or by email: heyerwood@miningamerica.org

Event Sponsored ____________________________ Amount $____________________
Sponsoring Company ____________________________
Contact ____________________________ Title ____________________________
Email ____________________________
Address ____________________________
City, State, Postal Code ____________________________
Payment ■ Please Invoice Me ■ Check ■ VISA ■ MasterCard ■ American Express ■ Discover
Card Number ____________________________ Expir Date __________
Name as it appears on the Card (please print) ____________________________
CC billing address & Zip ____________________________
(city and state are not required fields)
The Student Poster Contest is designed to give young men and women the opportunity to present papers to the convention attendees. This year’s contest will be judged on Wednesday December 6. Set up will take place on Tuesday December 5.

CONTEST DESCRIPTION

The contest is structured to simulate the presentation of a project or process to management by an engineer, geologist or metallurgist. The candidate will be judged on his/her ability to convey meaning and conviction that the work is significant and is of benefit to the minerals industry. The contest provides an excellent opportunity for young people to meet leaders in the minerals industry and to develop communication skills with other professionals who may not necessarily be skilled in the student’s particular discipline. We are accepting papers dealing with exploration, operations, management, economics, reclamation and other subjects pertinent to the mining industry.

PRIZES TO BE AWARDED

- Grand Prize ~ $350 - a $250 gift certificate from Miners Incorporated - donated by the Wray D. Farmin Family Fund and a $100 check donated by the William C. Jordan Fund
- 2nd Prize ~ $200 Check donated by Sponsors of the 2017 AEMA Annual Meeting
- 3rd Prize ~ $150 Check donated by Sponsors of the 2017 AEMA Annual Meeting
- 4th Prize ~ $100 Check donated by Sponsors of the 2017 AEMA Annual Meeting
- 5th Prize ~ $ 75 Check donated by Sponsors of the 2017 AEMA Annual Meeting

SPECIFICATIONS

BOOTH DIMENSIONS:
Each student will be provided a 4’ x 8’ poster board display unit (that will accept push pins), a table and a chair.

DISPLAY MATERIALS:
The display materials for hanging on the panels should be maps, diagrams, charts and posters that are of good quality. Core, rock samples, test results, demonstrations, handouts or other such items can be displayed or distributed on the table.

SIGNAGE:
AEMA will prepare one “identifying” sign for each student to display at his/her booth. The sign will have the student’s name, school name and the presentation title.

SET UP & JUDGING:
Exhibitor, core shack and student poster set up will take place between 8:00 am and 5:00 pm on Tuesday December 5. Judging will be on Wednesday December 6. Students are expected to be at their posters and ready to discuss their poster projects.

COST

Technical Session fees are waived for all full time students who are members, or become members of AEMA. Student membership fees are $25.00 annually. Student travel aid is available. Contact Pat Heywood - pheywood@miningamerica.org

This entry form does not constitute a registration. Students must complete and return a registration form. See form in this brochure, or on line at www.miningamerica.org

HOW TO ENTER

Interested students should complete and return the registration form below to AEMA on or before October 15. If you have any questions please contact Pat Heywood pheywood@miningamerica.org.

2017 STUDENT POSTER CONTEST ENTRY FORM

Return the completed form to AEMA~ 10 N Post St., Ste. 305, Spokane, WA 99201-0705
Email to: pheywood@miningamerica.org; or Fax to: (509) 623-1241

Student Name

School

Preliminary Title of Presentation (may be changed prior to October 15)

Email

Cell Phone

Address

City State/Province Postal Code Country
REGISTRATION INFORMATION

EVERYONE MUST REGISTER...
This includes chairs, speakers & exhibitors. To receive the advanced discounted registration fee your completed registration form must be received by AEMA on or before midnight PST Sunday November 19, 2017.

CANCELLATIONS/SUBSTITUTIONS...
Your registration fee minus a 20% cancellation charge will be refunded if your written notification is received by AEMA on or before November 19, 2017. After that date, refunds will not be issued. You may send a substitute from your organization.

PACKET PICKUP & ON SITE REGISTRATION
AEMA on site registration and badge pickup will be located on the 2nd floor of the Nugget Casino Resort in the foyer adjacent to the Casino Tower (formerly West Tower) elevators. AEMA registration desk hours:

- Sunday December 3
  - 3:00 pm - 5:00 pm
- Monday December 4
  - 7:00 am - 5:00 pm
- Tuesday December 5
  - 7:00 am - 5:00 pm
- Wednesday December 6
  - 7:00 am - 5:30 pm
- Thursday December 7
  - 7:00 am - 5:30 pm
- Friday December 8
  - 7:00 am - noon

NEW - YOU MUST HAVE YOUR MEMBER LOG-IN TO REGISTER ON LINE. If you did not receive your email log-in please check your spam folder. If it is not there, click “forgot my password”. If you still encounter problems contact Devon Coquillard - dcoquillard@miningamerica.org

ATTENTION STUDENTS, CHAIRS, SPEAKERS & EXHIBITORS

STUDENTS: Technical session registration fees are waived for all full time college students who are AEMA members (or join when registering). Annual membership fees for students - $25.00. AEMA also has travel and lodging assistance available to qualified students. Contact Pat Heywood - pheywood@miningamerica.org for more information.

SHORT COURSE INSTRUCTORS & SPEAKERS: We will comp short course registration if you are an AEMA individual member, one of the two corporate representatives or employee of a corporate member. The exception to this is employees of the federal government and state regulatory agencies & geological surveys. This exception DOES NOT apply to college or university professors or other employees of colleges and universities who are not associated with the state geological survey/bureau of mines. Should they choose not to become a member they will pay 50% of the course fee. IMPORTANT -- Speakers -- Please indicate which short course you are speaking in on the line provided on the registration form.

TECHNICAL SESSION CHAIRS & SPEAKERS: We will comp technical session registration for session chairs and 1 speaker per talk (maximum of 6 comped speakers per session) provided you are either individual members of AEMA, one of the two corporate representatives of a member company, or employed by a member company. The exception to this is employees of the federal government and state regulatory agencies & geological surveys. This exception DOES NOT apply to college or university professors or other employees of colleges and universities who are not associated with the state geological survey/bureau of mines. Non-member session chairs and speakers will be required to register at the member rate of $350. IMPORTANT -- Speakers --- Please indicate which session you are speaking in on the line provided on the registration form - do not enter the Interest Area or your talk title.

EXHIBITORS: Registration is in addition to reserving your booth space. Please coordinate. You are allowed 2 complimentary technical session badges and 2 complimentary exhibit hall only badges. Spouse and Guest passes do not qualify for Exhibitor ribbons. THEY WILL NOT BE ALLOWED IN TO THE HALLS PRIOR TO 9:00 AM. If you exceed this allotment, you will be billed. Exhibitors who receive a complimentary technical session badge as a short course chair, technical session chair or technical session speaker will not count against these allotments. You must be registered prior to November 19, 2017.

ANYONE NOT REGISTERED PRIOR TO MIDNIGHT NOVEMBER 19, 2017 PST WILL BE CHARGED AN ADDITIONAL $50 LATE FEE WHEN REGISTERING ON SITE - NO EXCEPTIONS
All attendees, speakers, chairs and exhibitors are responsible for making their own guest folio; room, tax, resort fee and incidental charges. The hotel requires a one night’s room deposit, per room, to guarantee accommodations. All major credit cards are accepted for the deposit, which is refundable if cancellation is made forty-eight (48) hours prior to arrival. This deposit guarantees the room until 12:00 midnight, on the scheduled arrival date. Check-in is 3:00 pm and Check-out is 11:00 am.

ROOM RATES
Resort and Casino (formerly West and East) Towers (Single or Double Occupancy) - $99
Triple and Quad occupancy rates are $10 per person over the quoted rate
Limited number of Government Rate Rooms $89

Rates apply three days before (November 30) and three days after (December 11)

Room Reservation Cut-off is November 19, 2017

HOSPITALITY CONTACTS
Hospitality Suite Reservations
Amanda Flangas, Executive Vice President of Sales
Amanda.Flangas@marnellgaming.com
775.356.3348

Food & Beverage for your hospitality suite or in your exhibit booth
Liz Shephard Director of Convention Operations
Elizabeth.Shepard@marnellgaming.com
775.356.3312

Special Meeting Room Reservations
Liz Shephard Director of Convention Operations
Elizabeth.Shepard@marnellgaming.com
775.356.3312

IMPORTANT INFORMATION ~ DON’T BE SCAMMED BY IMPOSTERS
We will not be using any outside company or agency to book rooms. In order to reserve your room you must either reserve it on-line through the AEMA website, or call the Nugget Casino Resort directly at the above listed phone number.

Newly remodeled double queen & petite king rooms

Newly remodeled king suite
## ANNUAL MEMBERSHIP DUES - you must join, renew or have a current membership to get discount rates

<table>
<thead>
<tr>
<th>Membership</th>
<th>New</th>
<th>Renew</th>
<th>Fee</th>
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<tr>
<td>Individual Active</td>
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<td></td>
<td>$120</td>
</tr>
<tr>
<td>Retired Senior (65 and over &amp; not working)</td>
<td></td>
<td></td>
<td>$35</td>
</tr>
<tr>
<td>Full-time University Student (ID required)</td>
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<td>$25</td>
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</table>

- My membership is current

## SHORT COURSE/FIELD TRIP REGISTRATION - (student discounts available on some courses - contact AEMA)

<table>
<thead>
<tr>
<th>Course</th>
<th>Days</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Using the Standardized Reclamation Cost Estimator (SRCE) Effectively</td>
<td>3</td>
<td>$650</td>
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<tr>
<td>Minimizing Permitting Pitfalls &amp; Delays on Federal Lands</td>
<td>2</td>
<td>$350</td>
</tr>
<tr>
<td>Mine Waste Management, Tailings &amp; Waste Rock-Technologies &amp; Techniques</td>
<td>2</td>
<td>$600</td>
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</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Days</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Quality Assurance/Quality Control (1 day Mon)</td>
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<td>$300</td>
</tr>
<tr>
<td>U.S. Mining Law (1 day Tue)</td>
<td></td>
<td>$300</td>
</tr>
<tr>
<td>No More Lousy PowerPoints (1 day Tue)</td>
<td></td>
<td>$150</td>
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<tr>
<td>Fundamentals of Mineral &amp; Metallurgical Processing (1 day Tues)</td>
<td></td>
<td>$300</td>
</tr>
<tr>
<td>MSHA Annual Refresher Training for Exploration (1 day Tues) <em>Lunch Fee Only</em></td>
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<td>$20</td>
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<tr>
<td>Agru America, Inc. Plant Tour (1 day Tues)</td>
<td></td>
<td>$75</td>
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<tr>
<td>3 Mines (Gold &amp; Silver) Tour (1 day Tue)</td>
<td></td>
<td>$275</td>
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- I am a Short Course Chair/Speaker (check course box above) on-mbr speakers pay 1/2 course fee

## FULL REGISTRATION (includes technical sessions, exhibit hall & social functions)

<table>
<thead>
<tr>
<th>Type</th>
<th>Member or US Gov’t</th>
<th>Non-Member</th>
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<tbody>
<tr>
<td>Full Registration</td>
<td>$375</td>
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<td>Retired Senior (65 and over &amp; not working)</td>
<td>$325</td>
<td>$575</td>
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<tr>
<td>I am a Technical Session Chair* or Short Course Chair</td>
<td>No Fee</td>
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</tr>
<tr>
<td>I am a Technical Session Speaker *</td>
<td>No Fee</td>
<td>$375</td>
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*enter session name: _______________________

- Full Time University Student (ID required)
- Press Pass (1 per media group)
- Tech Session Reg Fee ____________________

## EXHIBIT HALL ONLY REGISTRATION (includes exhibit hall & social functions)

<table>
<thead>
<tr>
<th>Type</th>
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<tbody>
<tr>
<td>Exhibit Hall Pass</td>
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<td>Complimentary Spouse Exhibit Hall Pass</td>
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- Expo Only Reg Fee _______________________

## MEAL AND DRINK TICKETS

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<th>Type</th>
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<tbody>
<tr>
<td>Welcoming Luncheon</td>
<td></td>
<td>$50 ea @</td>
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<tr>
<td>Exhibit Hall Sandwich Lunch (<em>walk around lunch</em>)</td>
<td></td>
<td>$15 ea @</td>
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<tr>
<td>Industry Outlook Luncheon</td>
<td></td>
<td>$50 ea @</td>
</tr>
<tr>
<td>Exhibit Hall Sandwich Lunch (<em>walk around lunch</em>)</td>
<td></td>
<td>$15 ea @</td>
</tr>
<tr>
<td>Drink Tickets</td>
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<td>$ 6 ea @</td>
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- Meal & Drink Tickets ____________________

## TOTAL AMOUNT DUE AND FORM OF PAYMENT

<table>
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<th>Total Amount Due</th>
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<tbody>
<tr>
<td>Check</td>
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<tr>
<td>Visa</td>
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<tr>
<td>MasterCard</td>
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<tr>
<td>American Express</td>
<td></td>
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<tr>
<td>Discover</td>
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<tr>
<td>PO (Government Agency)</td>
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Card Number: ____________________________ Expir Date: __________________________
Name as it appears on the Card (please print): __________________________

CC billing address (# and street name only) & Zip: __________________________
2017 EXHIBITOR ADVANCED DISCOUNT REGISTRATION FORM

Return to AEMA by Fax: (509) 623-1241, or mail to AEMA, 10 N. Post St., Ste 305, Spokane, WA 99201-0705, USA.
To quality for Advance Registration Pricing, your completed form must be received by AEMA no later than Sunday November 19, 2017

Exhibiting Company ____________________________________________________________ Booth # __________________________

Name as you want it to appear on your badge - please print clearly ________________________________________________________________________

Title ________________________________________________________________________

Company if different from above ________________________________________________________________________

Address: ________________________________________________________________________

City: ___________________________ State/Province: ___________________________ Postal Code: ___________________________

Country: ___________________________ Phone: ___________________________

Email: ___________________________ Twitter: ___________________________

Spouse Name (complete & check box below for complimentary exhibit hall badge): ________________________________________________________________________

Spouse badge may not be used as additional exhibitor

ANNUAL MEMBERSHIP DUES - you must join, renew or have a current membership to get discount rates

<table>
<thead>
<tr>
<th>Membership Level</th>
<th>New</th>
<th>Renew</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Individual Active</td>
<td>☐</td>
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<td>☐</td>
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</tr>
<tr>
<td>Full-time University Student (ID required)</td>
<td>☐</td>
<td>☐</td>
<td>$25</td>
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</tbody>
</table>

Membership Fee _________________

My membership is current

SHORT COURSE/FIELD TRIP REGISTRATION - (student discounts available on some courses - contact AEMA)

Two & Three day courses
- Using the Standardized Reclamation Cost Estimator (SRCE) Effectively (3 days) $650
- Minimizing Permitting Pitfalls & Delays on Federal Lands (2 days) $350
- Mine Waste Management, Tailings & Waste Rock-Technologies & Techniques (2 days) $600

One day courses
- Quality Assurance/Quality Control (1 day Mon) $300
- U.S. Mining Law (1 day Tue) $300
- No More Lousy PowerPoint (1 day Tue) $150
- Fundamentals of Mineral & Metallurgical Processing (1 day Tues) $300
- MSHA Annual Refresher Training for Exploration (1 day Tues) (Lunch Fee Only) $20
- Agru America, Inc. Plant Tour (1 day Tues) $75
- 3 Mines (Gold and Silver) Tour (1 day Tues) $275

I am a Short Course Chair/Speaker (check course box above) No Fee

No Fee

Short Course Fee _________________

EXHIBITOR FULL REGISTRATION - 2 free per booth space - please coordinate

Member or US Gov’t Non-Member

| Registration (using 1 of 2 free passes) | No Fee | No Fee |
| Additional Paid Registration | $375 | $625 |
| I am a Technical Session Chair* or Short Course Chair | No Fee | No Fee |
| I am a Technical Session Speaker * | No Fee | No Fee |
| *enter session name: | | |
| Full Time University Student (ID required) | No Fee | $100 |

Tech Session Reg Fee _________________

EXHIBIT HALL ONLY REGISTRATION (2 free per booth space)

| Exhibit Hall Pass - (using one of the two free passes) | No Fee | No Fee |
| Additional Paid Exhibit Hall Pass | $75 | $150 |

Expo Only Reg Fee _________________

MEAL AND DRINK TICKETS

<table>
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<tr>
<th>Special food requirements</th>
<th>Wednesday</th>
<th>Thursday</th>
</tr>
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<tbody>
<tr>
<td>Welcoming Luncheon</td>
<td>Quantity</td>
<td>@ $50 ea =</td>
</tr>
<tr>
<td>Exhibit Hall Sandwich Lunch (walk around lunch)</td>
<td>@ $15 ea =</td>
<td></td>
</tr>
<tr>
<td>Industry Outlook Luncheon</td>
<td>@ $50 ea =</td>
<td></td>
</tr>
<tr>
<td>Exhibit Hall Sandwich Lunch (walk around lunch)</td>
<td>@ $15 ea =</td>
<td></td>
</tr>
<tr>
<td>Drink Tickets</td>
<td>@ $6 ea =</td>
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Meal & Drink Tickets _________________

TOTAL AMOUNT DUE AND FORM OF PAYMENT

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<th>Check</th>
<th>Visa</th>
<th>MasterCard</th>
<th>American Express</th>
<th>Discover</th>
<th>PO (Government Agency)</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
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Card Number ___________________________ Expir Date ___________________________

Name as it appears on the Card (please print) ___________________________

CC billing address (# and street name only) & Zip ___________________________

AEMA's 2017 Final Registration Brochure
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Services</th>
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<tbody>
<tr>
<td>ACI Northwest, Inc.</td>
<td>HVAC, 746</td>
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<tr>
<td>Acker Drill Company</td>
<td>Drilling Equipment, Drilling Rigs, 229</td>
</tr>
<tr>
<td>ACZ Laboratories, Inc.</td>
<td>Analytical Laboratory Services, 319</td>
</tr>
<tr>
<td>Ad Wear</td>
<td>Advertising Specialties Apparel, 306</td>
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<tr>
<td>AECOM</td>
<td>Environmental Consultants, 219</td>
</tr>
<tr>
<td>Agru America, Inc.</td>
<td>Geosynthetics, Liners, 203</td>
</tr>
<tr>
<td>All Mining</td>
<td>Mine Construction, 325</td>
</tr>
<tr>
<td>Alaska Marine Lines, Inc.</td>
<td>Transportation Services, 123</td>
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<tr>
<td>ALS Minerals</td>
<td>Assay Laboratory, Laboratory Analytical Services, 132</td>
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<tr>
<td>AMC Mining Consultants (Canada) Ltd.</td>
<td>Engineering Consultants, 725</td>
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<tr>
<td>Amec Foster Wheeler</td>
<td>Engineering and Environmental Consultants, Consulting Engineers, 432</td>
</tr>
<tr>
<td>America West Drilling Supply</td>
<td>Drilling Supplies, 228</td>
</tr>
<tr>
<td>American Assay Laboratory</td>
<td>Assay Laboratory, Mineralogy Analyzer, 822</td>
</tr>
<tr>
<td>American Drilling Corp., LLC</td>
<td>Diamond Core Drilling, 403 and 405</td>
</tr>
<tr>
<td>American Mining &amp; Tunneling, LLC</td>
<td>Mine Development, Contract Mining, 407 and 409</td>
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<tr>
<td>Anachemia Mining</td>
<td>Laboratory Equipment &amp; Supplies, Laboratory Chemicals, 775</td>
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<td>Anvil International</td>
<td>Grooved Piping Products, 212</td>
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<td>ARCADIS</td>
<td>Environmental Consultants, Engineering Services, 419</td>
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<td>ASD Inc.</td>
<td>NIR Spectral Radiometers, 536</td>
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<tr>
<td>Assured Partners of Colorado Insurance</td>
<td>Insurance Services, 642</td>
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<tr>
<td>Atlas Copco</td>
<td>Rock Excavation, and Construction LLC, Mining Equipment, Rock Support, 224</td>
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<tr>
<td>Baroid Industrial Drilling Products</td>
<td>Drilling Fluid Products, 516</td>
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<td>Barr Engineering Co.</td>
<td>Ceramic Wear Parts, 865</td>
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<tr>
<td>Bishop Manogue High School</td>
<td>High School Mining Program, 875</td>
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<tr>
<td>Black Jack Resources</td>
<td>Mineral Exploration Property, 538</td>
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<td>Boart Longyear</td>
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<td>Multi-Power Products, Ltd., Drill Manufacturer</td>
<td>ICMJ’s Prospecting &amp; Mining Journal, Mining Publications</td>
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<tr>
<td>Amec Foster Wheeler, Engineering and Environmental Consultants, Consulting Engineers</td>
<td>ASD Inc., NIR Spectral Radiometers</td>
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<tr>
<td>DOSECC Exploration Service, Diamond Core Drilling, Drilling Company</td>
<td>Global Mining Equipment LLC, Rock Crushers, Mill Design</td>
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<tr>
<td>TestAmerica Laboratories, Inc., Analytical Laboratory Services</td>
<td>Black Jack Resources, Mineral Exploration Property</td>
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## 2017 EXHIBITORS BY BOOTH NUMBER

### 600's

<table>
<thead>
<tr>
<th>Booth</th>
<th>Company Name</th>
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<tbody>
<tr>
<td>638</td>
<td>Miners News, Publications</td>
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<tr>
<td>640</td>
<td>Motor Coach Industries, Motor Coach Manufacturer</td>
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<td>642</td>
<td>Assured Partners of Colorado Insurance, Insurance Services</td>
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<tr>
<td>643</td>
<td>Rocknokers Resources LLC, Engineering &amp; Geology Support Services</td>
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<tr>
<td>647</td>
<td>Pershing Gold Corporation, Emerging Gold Producer</td>
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<tr>
<td>648</td>
<td>MES Mining, Underground Mining Contractor, Tunneling</td>
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<td>649</td>
<td>GeoEngineers, Inc., Environmental &amp; Technology, Geotechnical Engineering</td>
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<td>650</td>
<td>McClelland Laboratories, Inc., Analytical Laboratory</td>
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<td>653</td>
<td>McGinley &amp; Associates, Environmental Consultants</td>
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<td>654</td>
<td>State of Alaska-DCCED, Government</td>
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<td>655</td>
<td>KP Ventures Well Drilling &amp; Pump Co. LLC, Well Drilling</td>
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<td>658</td>
<td>U. S. Forest Service, Government</td>
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<td>659</td>
<td>Brahma Group, Industrial Construction</td>
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<td>661</td>
<td>GIS Land Services, Geologic &amp; Cartographic Services, Title Due Diligence</td>
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<td>664</td>
<td>NIOSH Mining, Mine Safety</td>
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<td>665</td>
<td>Zonge International, Inc., Geophysical Services, Geophysical Instrumentation</td>
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<td>670</td>
<td>Wilderness Medics, Inc., Medical Services</td>
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<td>672</td>
<td>ProDeMin, Exploration Services, Mexico</td>
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<td>673</td>
<td>Carl Hamm, PPS, Pipe Systems</td>
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<td>GSE Environmental, Liners</td>
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<td>Layne, Drilling Company</td>
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### 700's

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<th>Booth</th>
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<tr>
<td>702</td>
<td>Placer Gold Design, Mining Related Fine Jewelry, Awards, Gift Items, Jewelry</td>
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<td>704</td>
<td>Knight Piesold, Consulting Engineers, Environmental Consulting &amp; Permitting</td>
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<td>708</td>
<td>Boart Longyear, Drilling Fluid Products, Drilling Company</td>
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<td>712</td>
<td>EM Strategies, Inc., Environmental Consulting &amp; Permitting</td>
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<tr>
<td>718</td>
<td>Baroid IDP-CleanWave, Water Treatment</td>
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<tr>
<td>719</td>
<td>The Mining Record, Mining Publications, Maps</td>
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<td>720</td>
<td>Baroid Industrial Drilling Products, Drilling Fluid Products</td>
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<td>722</td>
<td>First Drilling Group, Drilling Company</td>
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<td>723</td>
<td>IDS, Gyro Surveying, Geophysics, Hydrophysics, Directional Drilling, Reflex Rental &amp; Sales</td>
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<td>725</td>
<td>AMC Mining Consultants (Canada) Ltd., Engineering Consultants</td>
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<td>726</td>
<td>Genesis Gold Corporation, Exploration</td>
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<td>727</td>
<td>Mincon, Inc., DTH Hammers and Bits, Reverse Circulation Hammers &amp; Bits</td>
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<td>729</td>
<td>Inflatable Packers International LLC</td>
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<td>730</td>
<td>Jentech Drilling Supply, Inc., Drilling Supplies</td>
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### 700's (Cont’d.)

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<th>Booth</th>
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<tr>
<td>731</td>
<td>TonaTec Exploration LLC, Drilling Company</td>
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<td>U. S. Geological Survey, Government</td>
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<td>733</td>
<td>Victaulic, Grooved Piping Products</td>
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<td>734</td>
<td>Drift Exploration Drilling, Inc., Drilling Company</td>
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<td>739</td>
<td>ConeTec, Geotechnical Site Investigations</td>
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<td>740</td>
<td>Century Wireline Services, Downhole Geophysical Logging</td>
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<td>741</td>
<td>Legend, Inc., Geological Supplies, Assay Supplies</td>
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<td>742</td>
<td>Pace Analytical Services Inc., Laboratory Services, Environmental Laboratory Services</td>
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<td>743</td>
<td>Pioneer Technical Services, Inc., Engineering and Environmental Consultants</td>
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<td>744</td>
<td>SpecTIR, LLC, Hyperspectral Imaging</td>
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<td>746</td>
<td>ACI Northwest, Inc., HVAC</td>
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<td>747</td>
<td>Tech-Flow, LLC, Pump Distributor</td>
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<td>Resource West, Evaporation Equipment, Mine Ventilation Equipment</td>
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<td>750</td>
<td>Tsurumi (America), Inc., Pumps</td>
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<td>752</td>
<td>OCP Construction Supplies, LED Lighting</td>
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<td>753</td>
<td>Trihydro Corporation, Environmental Consultants, Engineering Consultants</td>
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<td>754</td>
<td>Evoqua Water Technologies, Water Treatment</td>
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<td>Engineering/Remediation Resources Group, Inc. (ERRG), Environmental Construction</td>
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<td>Crone Geophysics &amp; Exploration Ltd., Geophysical Services</td>
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<td>757</td>
<td>Field Lining Systems, Inc., Liners</td>
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<td>Diversified Drilling, Drilling Company</td>
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<td>Rockmore International, Drilling Equipment (Bits &amp; Steel), DTH Hammers &amp; Bits</td>
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<td>Mount Sopris Instrument Company Inc., Geophysical Logging Equipment</td>
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<td>Falcon Drilling Inc., Drilling Company</td>
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<td>WEG Electric Corp., Electrical Services</td>
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<td>766</td>
<td>Summit Engineering, Engineering</td>
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<td>American Mine Service, Mine Consulting</td>
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<td>Sipi Metals Corp., Refinery</td>
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<td>774</td>
<td>Solmax, Geosynthetics, Liners</td>
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<td>775</td>
<td>Anchemia Mining, Laboratory Equipment &amp; Supplies, Laboratory Chemicals</td>
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<td>777</td>
<td>American Assay Laboratory, Assay Laboratory, Mineralogy Analyzer</td>
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<td>779</td>
<td>COLOG, Borehole Geophysical, Hydrologic Logging</td>
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<td>780</td>
<td>Society of Economic Geologists, Publications</td>
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<td>781</td>
<td>Cementation USA Inc., Mine Construction</td>
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<td>782</td>
<td>Trapbag, Containment System</td>
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</table>
2017 EXHIBITORS BY BOOTH NUMBER

800's... (Cont'd.)

834 Legarza Exploration, Exploration Drill Pads, Exploration Roads
836 SciAps, Inc., Hand Held Spectrometer
838 and 840 U. S. Bureau of Land Management, Government
842 Geo-Logic Associates, Engineering Consultants
844 PAC Machine Co, Pumps
846 Utah Mining Association, Mining Association
848 Ruen Drilling, Inc., Drilling Company
854 Colorado School of Mines, Educational/University, Metallurgy/Mining Departments
858 and 860 Natural Creations, Gems and Semi-Precious Stones
864 Energold Drilling Corp., Drilling Company
865 Betterwear New Material Co., Ceramic Wear Parts
870 Electromine SA, Geophysical Logging Equipment
874 M-I Swaco, Drilling Fluid & Solids Control Company
875 Bishop Manogue High School, High School Mining Program
877 GeoShack, Aerial Data Acquisition

EXHIBIT HALL HOURS & ACTIVITIES

TUESDAY DECEMBER 5
• Exhibitor Set up 8:00 am - 5:00 pm

WEDNESDAY DECEMBER 6 ~ 9:00 am - 6:30 pm
• Exhibits Open ~ 9:00 am
• Morning Coffee Break ~ 9:35 - 10:20
• Sandwich Lunch Noon ~ 1:30 pm
  Sandwich, chips, cookie & soda $15.00
• Afternoon Coffee Break ~ 3:35 - 4:20
• Welcoming Reception ~ 5:30 pm - 6:30 pm

THURSDAY DECEMBER 7 ~ 9:00 am - 6:30 pm
• Exhibits Open ~ 9:00 am
• Morning Coffee Break ~ 9:35 - 10:20
• Sandwich Lunch Noon ~ 1:30 pm
  Sandwich, chips, cookie & soda $15.00
• Afternoon Coffee Break ~ 3:35 - 4:20
• Happy Hour Reception ~ 5:30 pm - 6:30 pm

FRIDAY DECEMBER 8 ~ 9:00 am - NOON
• Exhibits Open ~ 9:00 am
• Morning Coffee Break ~ 9:35 - 10:20
• Hosted Sandwich Lunch ~11:30 - noon
  Sandwich, chips, cookie & soda
• Tear Down - Noon ~ 5:00 PM
AMERICAN EXPLORATION & MINING ASSOCIATION
Exhibits December 6-8, 2017
NUGGET/PAVILIONS & ROSE A, B

American Exploration & Mining Association
2017

Last Updated 09/18/2017
Red and Yellow spaces are taken

5 - 8 X 10 Booths
117 - 9 X 10 Booths in rows designated with •
144 - 10 X 10 Booths  18 - 7' Poster Boards & 6' tables for Core Shack & 4 for Student Posters
26 Total Booths=25050 Sq.Ft.
All aisles at minimum 10’ wide except as noted
Floor Plan Subject to Fire Marshal Approval
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AMERICAN EXPLORATION & MINING ASSOCIATION
123rd ANNUAL MEETING

#AEMA17

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December 4-8, 2017
The Nugget Casino Resort
Reno/Sparks, NV
AEMA’s 123rd Annual Meeting, Exposition, Short Courses & Field Trips

2nd and Final Registration Brochure

Nugget Casino Resort
Sparks, Nevada USA

December 4-8, 2017