2019 MINING SUMMIT

Securing Arizona’s Future as the Silicon Valley of Mining
Thursday, January 10, 2019 | 9:30 am - 2:30 pm | University of Arizona Stadium Club

WELCOME
to our Arizona mining think tank discussion with fellow VIP industry, academic, and government leaders
AT-A-GLANCE

When: 9:30 – 2:30 pm

Followed by a networking reception from 2:30 - 4:30 pm

Where: Dan Dunlap Stadium Club

University of Arizona Football Stadium
545 N National Championship Drive, Level 6
Tucson, Arizona 85719
Take the elevator at the Steward Observatory Mirror Lab

Parking: Cherry Avenue Garage, 1641 E Enke Drive
See page 6 for detailed parking instructions

Dress: Business casual

PROGRAM

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## AGENDA

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<tr>
<td>9:00</td>
<td>Registration begins</td>
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| 9:30 | Opening remarks  
Steve Trussell, Executive Vice President, Arizona Mining Association and Arizona Rock Products Association |
| 9:45 | Importance of mining and the mining supply chain to the state of Arizona  
Keith Watkins, Senior Vice President of Economic/Rural Development, Arizona Commerce Authority  
Juan Ciscomani, Senior Advisor for Regional and International Affairs for Governor Ducey |
| 10:05 | Mining’s significance to the public sector  
Francis McAllister, Vice President of Land and Water, Freeport-McMoRan |
| 10:25 | Why Caterpillar located its regional headquarters in Tucson  
Sudhanshu Singh, Global Product Manager, Caterpillar, Inc. |
| 10:40 | BREAK |
| 11:00 | Innovations in mining technology and sustainability  
How the UA leads mining innovation and workforce development, and connects Arizona’s expansive mining ecosystem  
Mary Poulton, Co-Director, Lowell Institute for Mineral Resources, and Professor Emerita, Mining & Geological Engineering  
Resources  
Ralph Stegen, VP, Minesite Geology, Freeport-McMoRan  
Eric Seedorff, Director, Lowell Program in Economic Geology and Associate Professor, Geosciences |

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<td>Remote Sensing</td>
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<td></td>
<td>Leon Duplessis, Chief Engineer, Technology Center-Mining, Freeport-McMoRan</td>
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<td>Isabel Barton, Assistant Professor, Mining &amp; Geological Engineering</td>
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<td>Mineral Processing</td>
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<td></td>
<td>Rick Gilbert, VP Technology, Freeport-McMoRan</td>
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<td>Jaeheon Lee, Associate Professor, Mining &amp; Geological Engineering</td>
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<td>John Haynes, Head of Development and Technical Services, KGHM</td>
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<td>Julie Neilson, Director, Center for Environmentally Sustainable Mining, and Assoc. Research Professor, Soil, Water, and Environmental Sciences</td>
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<td>Eric Mears, VP, Haley &amp; Aldrich</td>
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<td>John Lacy, Director, Global Mining Law Center, and Professor, Law</td>
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<td>Safety</td>
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<td>Chris Lilley, Manager, HSE, Resolution Copper</td>
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<td>Eric Lutz, Acting Associate Director for Safety and Health, Lowell Institute for Mineral Resources</td>
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<td>Chris Bijsterveld, Business Manager, Ground Probe</td>
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<td>Brad Ross, Director, Geotechnical Center of Excellence, and Professor of Practice, Mining &amp; Geological Engineering</td>
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<td>John Lyons-Baral, Senior Applications Engineer, Hexagon Mining</td>
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<td>James Werner, Assistant Director, UA San Xavier Mining Laboratory</td>
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<td>Phil Pearthree, Director, Arizona Geological Survey</td>
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<td>The significance of networking organizations for innovation</td>
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<td>Bill Assenmacher, President, Southern Arizona Business Coalition</td>
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| 12:30| **Lunch and Innovation Exhibition**  
Attendees will have an opportunity to interact with presenters and additional exhibitors from the UA and industry |
| 1:30 | Building a world-class innovation ecosystem: Silicon Valley vs Arizona  
Mary Poulton, Co-Director, Lowell Institute for Mineral Resources, and Professor Emerita, Mining & Geological Engineering  
*Dr. Poulton will present a side-by-side comparison of Arizona and Silicon Valley to help illustrate what it takes to build a world-class innovation ecosystem in a specialized field, the critical role of the University, and how participants can work together to fill the gaps.*  
*The presentation will be followed by discussion and action planning: who needs to do what to make this vision a reality?* |
| 2:10 | **Closing Remarks**  
Greg Boyce, Chair, Lowell Institute for Mineral Resources; Director, Newmont Mining; and former CEO, Peabody Energy |

*The event will be followed by a networking reception in the same venue, from 2:30 – 4:30 p.m. All attendees are welcome to attend.*
MAP AND PARKING INSTRUCTIONS

Meeting: Dan Dunlap Stadium Club
Venue: University of Arizona Football Stadium
545 N National Championship Drive, Level 6
Tucson, AZ 85719

Parking: Cherry Avenue Garage
1641 E Enke Drive
Tucson, AZ 85719

(for non-UA participants) Your parking reservation is pre-paid and guaranteed so long as you RSVP’d, you park in the Cherry Avenue Garage, and you arrive before 9:30 a.m.
You may collect your pre-paid swipe card at the summit venue when you register, you do not need it to get in the garage, only out.

NOTE: in the unlikely event the garage sign says “FULL” when you arrive, pull up to the gate and press the button for the attendant. Tell the attendant you have a reservation under “Mining Summit” and the attendant will issue you a ticket so you may enter the garage. You will simply use the swipe card when you exit.
PARTICIPATING ORGANIZATIONS

Arizona Mining Association
Arizona Rock Products Association
UA Lowell Institute for Mineral Resources
AMIGOs
Southern Arizona Business Coalition
Mining Foundation of the Southwest
Arizona Tech Council
Tucson Metro Chamber
Freeport-McMoRan
Caterpillar
Barrick Gold
Hexagon Mining
Ground Probe
EMX Royalty
ASARCO
Newmont
Anglo
Rio Tinto (Resolution)
Modular Mining
KGHM International
Florence Copper
South32
HudBay (Rosemont)
Haley & Aldrich
Granite Construction
Lhoist N. America
CalPortland
Cemex
Drake
Arizona Materials
Arizona Governor’s Office, Natural Resource Policy Advisory
Arizona Governor’s Office, Arizona Mexico Commission
Arizona Commerce Authority
Arizona State Legislature – House and Senate
Key Legislative Staff Members
Natural Resource Policy Advisors House and Senate
Arizona Board of Regents
Arizona Department of Environmental Quality
Arizona State Land Department
Arizona Geological Survey
Arizona State Mine Inspector’s Office
Attorney General’s Office
The University of Arizona
UA Tech Launch Arizona
QUESTIONS?

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          Office Phone: 520-621-2988
          Cell Phone: 760-546-8694