MINING: THE EVER CHANGING LANDSCAPE

The mining industry has been through a wide range of changes since its beginnings. Changes in the industry have occurred on nearly every facet of the business including personnel, technology, policy, safety and processing. Mining continues to be a profitable and vibrant piece of the local, regional and national economy. The conference focuses on the technological, economic, environmental, and regulatory outlook for mining and related industries. The key topics that will be discussed during the opening session, keynote address, and six technical sessions are:

- Efforts to characterize, quantify and extract mineral and water resources
- Changes relevant to regulatory requirements and compliance strategies
- Technological improvements and innovation
- Safety, operability and environmental concerns

For the 29th year, this unique conference will be the place for mining, chemical processing, reclamation and environmental experts, locally and internationally, to exchange technical information and ideas. Sponsors are the Society for Mining Metallurgy and Exploration (SME); the American Institute of Chemical Engineers (AIChE); the American Institute of Professional Geologists (AIPG); and the Association of Fertilizer and Phosphate Chemists (AFPC). Typically, this conference is attended by more than 500 people, mostly from Central Florida. You won’t want to miss the opening session and keynote luncheon which will be on October 8th, 2014 at 8:30 a.m. and 12:00 noon respectively.
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<td>1:30-2:05</td>
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**Wednesday Afternoon**

Concurrent Sessions are:
1. Geology / Mine Planning
2. Analytical /Regulatory

**Thursday Morning**

Concurrent Sessions are:
3. Mining and Mineral Processing
4. Environmental Health and Safety

**Thursday Afternoon**

Concurrent Sessions are:
5. Chemical Processing
6. Reclamation
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<tr>
<td>Session Chair</td>
<td>Marc Hurst</td>
<td>Karen Mort</td>
<td>Glen Oswald</td>
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<tr>
<td>Session Abstract</td>
<td>The Geology and Mine Planning Session will explore recent advances in the on-going effort to characterize, quantify, and extract mineral and water resources. As the world’s ever-growing population increases demand for resources, pressure for more-innovative methods of extraction with fewer environmental side-effects increases, too. These sometimes-opposing goals make an ever-changing landscape for geologists and mine planners.</td>
<td>The Analytical/Regulatory Session will present to the attendees various topics of interest regarding Analytical and Regularly issues and research. The analytical and regulatory segment of today’s environmental field is a very important part of the mining process. Topics that will be discussed include characterization of low pH water and simple treatment for discharge compliance, air quality issues in Hillsborough County, update on Florida streams (UMAM and NNC), and an engineer’s insight into bureaucracies that affect our lives and regulate the phosphate industry. This session will be beneficial to all that attend.</td>
<td>It all begins with mining! The 2014 Mining and Minerals Processing technical session will cover mining related topics that practitioners in the industry will find valuable. Firms that support their operation with technical innovations take an edge into the tough competitive environment. This session will present ideas that can be taken back to the mine to improve costs, production, quality, safety and the environment.</td>
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<td>Speaker</td>
<td>Ron Basso, P.G</td>
<td>Beverly H. Banister</td>
<td>Ross McClenithan</td>
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<tr>
<td>Title</td>
<td>The Impact of Karst Development on Peace River Flow</td>
<td>EPA Overview and Key Regulatory Updates</td>
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<td>Kevin D. Farmer</td>
<td>Naihil Betemarian</td>
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<td>David Cass</td>
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<td>Exploring &amp; Developing the Bayovar 12 Sedimentary Phosphate Deposit, Peru: Learning from the Neighbors</td>
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<td>Development of Sinkholes in a Thickly Covered Karst Terrane</td>
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<th>Reclamation</th>
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<td>Laura Morris</td>
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<td>Session Abstract</td>
<td>The Environmental, Health &amp; Safety Session will include a forward thinking perspective of the water quantity and quality issues that face the mining industry. The availability of low-cost water supplies for the industry continues to diminish in the face of increasing competition and more restrictive regulations and the complexities involved in implementing Florida’s new numeric nutrient criteria are likely to pose major challenges in the coming years. This session will include experts that will discuss the expected impacts of these issues and what innovative approaches are on the horizon that will ensure the continued success of the mining industry.</td>
<td>The Chemical Processing Session will have five presentations addressing current and future phosphate operations. The ever-changing nature of the industry requires innovative thinking with regards to virtually every aspect of the manufacturing process including safety, operability and environmental concerns. Presentation topics will address several of these fundamental issues and will include novel processes for acid manufacture, granulation production and water treatment.</td>
<td>Reclamation of mined lands is a complex and dynamic process that results in diverse habitats for flora, fauna, and the people that use them. These diverse and successful habitats come through the collaborative work of a wide array of professionals and tradesman who contour and manage the land. This year’s Reclamation Session includes a wide range of topics ranging from the integrated management of undesirable vegetation, wildlife utilization, to landform grading techniques.</td>
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<tr>
<td>Speaker</td>
<td>Daniel Hammond</td>
<td>Khoula Khalless, PhD</td>
<td>Derrick Thompson</td>
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<td>Title</td>
<td>NNC - Be Careful What You Wish For</td>
<td>Wet Process Phosphoric Acid Purification using Nanofiltration Membrane</td>
<td>Geomorphic Reclamation Design and Construction of the Teach AML Site in Wapello County, Iowa</td>
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<td>Adam E. Platt</td>
<td>Kevin Lambrych</td>
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<td>Title</td>
<td>Jim Bays</td>
<td>Proven Solutions for Phosphoric and Sulfuric Acid Service</td>
<td>Babcock Ranch Community Invasive Species Integrated Management</td>
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<td>Patrick Morgan</td>
<td>Eric Michel</td>
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<td>Dr. John Carr</td>
<td>Lauren Deaneer</td>
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<td>Title</td>
<td>Conveyor Belt Machine Guarding Assessment Protocols</td>
<td>Scale Inhibition in a Process Line and Heat Exchanger at Simplot Phosphates LLC. Using PHOSFLOW Reagents</td>
<td>Reclamation from the Wildlife’s Perspective</td>
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<td>Guarding Equipment</td>
<td>An Overview of Dry Gypsum Stacking Operation for Hemi-Hydrate Phosphogypsum at the Ma‘aden Phosphate Company, Ras Al Khair Facility, Kingdom of Saudi Arabia</td>
<td>Significant Upland Wildlife Habitat &amp; Top Soiling</td>
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<td>Ashraf H. Riad, PhD.D., P.E.</td>
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<td>President Focus Ventures Ltd</td>
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<td>EPA Overview and Key Regulatory Updates</td>
<td>Beverly H. Banister</td>
<td>Director of the Air, Pesticides and Toxics Management Division U.S. EPA, Region 4</td>
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<td>Characterization of Low pH Water and Simple Treatment for Discharge Compliance</td>
<td>Halei Betemaram</td>
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<td>Air Director Environmental Protection Commission of Hillsborough County</td>
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<td>John Kiefer</td>
<td>Principal Water Resource Engineer AMEC</td>
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<td>Ross McIverathan</td>
<td>Maintenance Project Coordinator Mosaic</td>
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<td>Determination of Apatite Liberation and Locking Characteristics for Phosphate Beneficiation</td>
<td>Rashida Daoudi</td>
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<td>Centrifugal pumping of high yield stress Florida phosphate clays and tailings slurries</td>
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<td>Glen Oswald</td>
<td>Process Engineering Manager - Mining Mosaic</td>
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<td>Water Quality Treatment Results Using a Combined Treatment Wetland and Sand Filtration System</td>
<td>Adam E. Platt, Jim Bays</td>
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