Access to the SUMMERXCHANGE technical program becomes available July 19, 2022. Watch and learn at your convenience this summer with full availability to presentations and sessions through the end of September.

Live Virtual Keynote
- The sizzling content continues with a dynamic panel discussion. More information coming soon!

Recorded Presentations
- MINEXCHANGE 2022 Keynote Session:
  The Undiplomatic Truth: Mining Missing the Mark on Securing Popular Support
  Ambassador Todd Chapman, International Business Consultant

  The Power of Purpose (Robert E. Murray Innovation Lecture)
  George Hemingway, Managing Partner, Stratalis

- Signature Lectures:
  Health & Safety Division Breakfast: Mining’s Social License in an ESG World
  Hugh Thatcher, Thatcher Company

  Dreyer Lecture: Navigating the Hurricane of the Junior Resource Market in the Search of Ore Deposits
  Jeff Pontius, Geologist

Technical Session Content Capture (30+ presentations - audio and slides)
- Coal & Energy: Automation and Innovation in Mine Production Operations
  A Discussion of the Design and Development of an Intrinsically Safe Drone for Underground Coal Mining Applications
  Pedram Roghanchi, Assistant Professor, New Mexico Institute of Mining & Technology

  Development of Shuttle Car Autonomous Docking with a Continuous Miner Using 3-D Depth Cameras
  Joseph Sattile, Professor, University of Kentucky and Sibley Miller, University of Kentucky
Concepts for the Development of an Autonomous Roof Bolting Module for Enhancing Miner Safety
Steven Schafrik, University of Kentucky; and Anastasia Xenaki, Mining Engineer, University of Kentucky

Developing a Semi-Autonomous Shuttle Car: Performance of a Lab-Scale Prototype
Vasilis Androulakis, University of Kentucky

• Coal & Energy: Accessing Capital in the Ever-Changing Energy Landscape
  Social Challenges for Coal in Raising Capital
  John Craynon, Teaching Assistant Professor, West Virginia University

• Environmental: Environmental Policy and Regulation
  Status of Waters of the U.S. in the Arid West
  Brian Lindenlaub, Vice President, WestLand Resources, Inc

  Implications of Operating in an Environmental Justice Community
  Alma Feldpausch, Principal Health Scientist, Ramboll US Consulting

  Real-Time Monitoring and Data Management of a NEPA Draft EIS Public Comment Period
  Jessica Joyner, Project Manager, Brown and Caldwell

  Decarbonization Strategies for Miners
  Ron Miller, Principal, Reliant Energy Solutions LLC

• Environmental: Mine Water Management
  Making Informed Operational Decisions for Water Management at a Remote Legacy Mine Using a Probabilistic Water Balance Model
  Dale Kolstad, Vice President, Barr Engineering Co.

  Geochemical Model to Predict Aquifer Restoration Following Low pH In-Situ Uranium Recovery
  Kathryn Johnson, Senior Geochemist, Barr Engineering Co.

  Wetbud: A Constructed Wetlands Design Tool
  Caroline Gerwig, Student

  Impacts Assessment to Wetlands During Mine Development – Looking Beyond Drawdowns
  Vikas Tandon, Lead Environmental Scientist, Foth Infrastructure & Environment, LLC

• Mining & Exploration: Geosciences: Geology: Making the Grade - Operational Practices for Improving Grade Control
  Improvement of Productivity Through Mine to Mill Reconciliation
  Abani Samal, Principal, GeoGlobal LLC

  An Operational Tool to Adjust Ore Polygons for Blast Movement
  Seshadri S. Kanchibotla, Director, Seshat Consultants Pty Ltd

• Mining & Exploration: Management: Mine Financing & Investing
Digital and Technological Trends Enabling Supply Chain Transparency and How this Could Impact Mine Finance and Projects
Pratt Rogers, Assistant Professor, University of Utah

- **Mining & Exploration: Management: Sustainable Development Across the Entire Mining Value Chain**
  Building a Global Community: The Creation of the Global GeoForum
  Mackenzie Sorensen, Senior Mineralogist, Rio Tinto

  Using the Sustainable Livelihoods Framework to Understand Artisanal and Small-Scale Mining in Colombia
  Alejandro Delgado-Jimenez, PhD Student, Colorado School of Mines

  The Permitting and Public Relations of Controversial Projects in Mining
  Madison Akers, Grad. Mining Engineer, Northern Star Resources

  5.7 Magnitude Earthquake and the Kennecott Tailings Storage Facility
  Eva Hover, Hydrologist, Rio Tinto

- **MPD: MPD Plenary Session**
  The Journey…and the Lessons
  Kathleen Altman, Consultant, Chair of SME Council of Education

- **Tailings: Technological Advancements**
  Site-Specific Approach for Developing Profiles of Critical State Soil Mechanics Parameters in Mine Tailings Deposits
  Jason Harvey, Geotechnical Engineer, Barr Engineering Co

  Tailings Draindown Estimates: Implementation and Considerations
  Nick Rocco, Geotechnical Engineer, Newfields

  Inherent Uncertainties in Determining Breach Parameters Utilized in Numerical Tailings Dam Breach
  Mark Walden, NewFields Mining Design and Technical Services