### Session No. 39
Vapors, Brines, Sulfides, and Mines: Understanding Metal Mobility in Magma-Hydrothermal Systems and Their Supergene Successors (Posters)

**Jane Didaleusky: Presenting** (Jean Cline, Adam Simon, Scott Nowicki, and Steve Ludington: Co-Authors)

THE METAL POTENTIAL OF BLACK SHALES OF EUREKA COUNTY AND NYE COUNTY, NEVADA, USA

[Abstract](#)

**Sunday, October 31**: 8:00 AM-6:00 PM  
Colorado Convention Center: Hall B

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### Session No. 44
Volcanic and Landscape Evolution of the Jemez Mountains Volcanic Field (Posters)

**Carla Eichler: Presenting** (Terry Spell and John Wolff: Co-Authors)

CHEMICAL AND PETROGRAPHIC CHARACTERISTICS OF CRYSTALS FROM THE EAST FORK MEMBER, VALLES CALDERA, NEW MEXICO, USA

[Abstract](#)

**Sunday, October 31**: 8:00 AM-6:00 PM  
Colorado Convention Center: Hall B

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### Session No. 39
Vapors, Brines, Sulfides, and Mines: Understanding Metal Mobility in Magma-Hydrothermal Systems and Their Supergene Successors (Posters)

**Jordan Armstrong: Presenting** (Jean Cline: Co-Author)

DECIPHERING THE EVOLUTION OF ORE FLUIDS AT THE BATU HIJAU COPPER-GOLD PORPHYRY DEPOSIT, SUMBAWA, INDONESIA

[Abstract](#)

**Sunday, October 31**: 8:00 AM-6:00 PM  
Colorado Convention Center: Hall B
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<thead>
<tr>
<th>Session No. 26</th>
<th>Geochemistry Geology (Posters)</th>
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<tbody>
<tr>
<td><strong>Julie Baumeister: Presenting</strong> (Valerie Tu, Amanda Olsen, and Libby Hausrath: Co-Authors)</td>
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<tr>
<td>CHEMICAL WEATHERING RATES OF OLIVINE AND SERPENTINE IN NATURAL ENVIRONMENTS</td>
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<tr>
<td><strong>Abstract</strong></td>
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<tr>
<td><strong>Sunday, October 31: 8:00 AM-6:00 PM</strong></td>
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<td>Colorado Convention Center: Hall B</td>
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<table>
<thead>
<tr>
<th>Session No. 11</th>
<th>Vapors, Brines, Sulfides, and Mines: Understanding Metal Mobility in Magma-Hydrothermal Systems and Their Supergene Successors (Society of Economic Geologists; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; GSA Hydrogeology Division)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Adam Simon: Presiding</strong> (With Jacob Lowenstern and Charles Alpers)</td>
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<tr>
<td><strong>Sunday, October 31: 8:00 AM-12:00 PM</strong></td>
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<td>Colorado Convention Center: Room 601</td>
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<tr>
<td><strong>Jean Cline, Adam Simon, Anthony Longo: Co-Authors</strong> (John Muntean: Presenting)</td>
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<tr>
<td>THE ORIGIN OF CARLIN-TYPE GOLD DEPOSITS</td>
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<td><strong>Abstract</strong></td>
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<td><strong>Sunday, October 31: 8:15 AM</strong></td>
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<td><strong>Adam Simon: Presenting</strong> (John Muntean and Brian Aillaud: Co-Authors)</td>
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<td>THE FORMATION OF AU-RICH PORPHY DEPOSITS: WHERE IS THE CU?</td>
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<tr>
<td><strong>Abstract</strong></td>
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<td><strong>Sunday, October 31: 9:20 AM</strong></td>
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<tr>
<td>Colorado Convention Center: Room 601</td>
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<tr>
<td>Session No. 147</td>
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<tr>
<td>Stratigraphic, Structural, Geomorphic, and Tectonic Evolution of the Lake Mead Region, Southwestern United States, from the Oligocene to the Present (GSA Quaternary Geology and Geomorphology Division)</td>
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</table>

**Andrew Hanson: Presiding** (With Amy Brock)

**Monday, November 1: 1:30 PM-5:30 PM**
Colorado Convention Center: Room 607

<table>
<thead>
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<td>Stratigraphic, Structural, Geomorphic, and Tectonic Evolution of the Lake Mead Region, Southwestern United States, from the Oligocene to the Present</td>
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</table>

**Wanda Taylor: Co-Author** (William Rittase: Presenting)

CENOZOIC EXTENSION IN THE RIVER MOUNTAINS, SOUTHERN NEVADA: INTERACTION OF THE SADDLE ISLAND DETACHMENT WITH THE LAS VEGAS VALLEY SHEAR ZONE AND LAKE MEAD FAULT SYSTEM

**Abstract**

**Monday, November 1: 3:05 PM**
Colorado Convention Center: Room 607

<table>
<thead>
<tr>
<th>Session No. 147</th>
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<tbody>
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<td>Stratigraphic, Structural, Geomorphic, and Tectonic Evolution of the Lake Mead Region, Southwestern United States, from the Oligocene to the Present</td>
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</table>

**Laura Eaton: Presenting** (Andrew Hanson: Co-Author)

DETERMINING THE SIGNIFICANCE AND SENSE OF OFFSET OF THE FRENCHMAN MOUNTAIN FAULT, LAS VEGAS, NEVADA: A PAIRED STRUCTURAL AND BASIN ANALYSIS

**Abstract**

**Monday, November 1: 3:20 PM**
Colorado Convention Center: Room 607

<table>
<thead>
<tr>
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</table>

**Carl Swenberg: Presenting** (Andrew Hanson and Amy Brock: Co-Authors)

THE FLUVIAL MUDDY CREEK FORMATION NEAR OVERTON, NEVADA: PROVENANCE, STRATIGRAPHY, AND MIocene-Recent EVOLUTION OF THE MORMON BASIN

**Abstract**

**Monday, November 1: 3:35 PM**
Colorado Convention Center: Room 607
Session No. 147
Stratigraphic, Structural, Geomorphic, and Tectonic Evolution of the Lake Mead Region, Southwestern United States, from the Oligocene to the Present

Tom Muntean: Presenting (Andrew Hanson: Co-Author)

DETRITAL ZIRCONS FROM THE NEOGENE MUDDY CREEK FORMATION IN SOUTHERN NEVADA INDICATE A MIXED COLORADO PLATEAU-BASIN AND RANGE PROVENANCE

Abstract

Monday, November 1: 3:50 PM
Colorado Convention Center: Room 607

Session No. 147
Stratigraphic, Structural, Geomorphic, and Tectonic Evolution of the Lake Mead Region, Southwestern United States, from the Oligocene to the Present

Andrew Hanson: Presenting (Steven Forrester: Co-Author)

PROVENANCE OF THE MUDDY CREEK FORMATION NEAR MESQUITE NEVADA AND ITS BEARING ON THE PALEO-COLORADO RIVER HYPOTHESIS

Abstract

Monday, November 1: 4:05 PM
Colorado Convention Center: Room 607

Session No. 144
The Precambrian-Cambrian Ecosphere (R)evolution: Insights from Chinese Microcontinents

Ganqing Jiang: Presenting

EVOLUTION OF THE EDIACARAN-EARLY CAMBRIAN YANGTZE PLATFORM

Abstract

Monday, November 1: 5:00 PM
Colorado Convention Center: Room 605

Tuesday, November 2nd

Session No. 185
Geology in the National Parks: Research, Mapping, Education, and Outreach (Posters)

Mengesha Beyene: Presenting (Michael Wells, Daniel Stockli, Terry Spell, and Thomas Hoisch: Co-Authors)

LATE CRETACEOUS AND LATE MIocene MOTION ON THE BOUNDARY CANYON DETACHMENT FAULT CONSTRAINED BY 40Ar/39Ar AND (U-TH)/HE THERMOCHRONOMETRY: FUNERAL MOUNTAINS, DEATH VALLEY

Abstract

Tuesday, November 2: 8:00 AM-6:00 PM
Colorado Convention Center: Hall B
### Session No. 196
New Insights on the Tectonic, Magmatic, Paleobiogeographic, and Metallogenic Evolution of Terranes in the North American Cordillera from Alaska to California (Posters)

**Pasquale Delvecchio: Presenting** (Rod Metcalf and Wendy Barrow: Co-Authors)

**Extensional Shear Sense Indicators Associated with the Trinity Fault, Eastern Klamath Mountains Province, CA**

**Abstract**

Tuesday, November 2: 8:00 AM-6:00 PM
Colorado Convention Center: Hall B

### Session No. 161
Understanding High-Amplitude Stable Isotope Variations in Proterozoic Strata

**Ganqing Jiang: Co-Author** (Xinqiang Wang: Presenting; Xiaoying Shi, Shihong Zhang, and Shuhai Xiao: Co-Authors)

**Decoupled Carbonate and Organic Carbon Isotope Record: An Environmentally Controlled Phenomenon**

**Abstract**

Tuesday, November 2: 9:30 AM
Colorado Convention Center: Room 207

### Session No. 164
High Country of the Geological Mind: Philosophy of Geohistory

**Steve Rowland: Presenting**

**The Synchronous Discovery of Deep Time and Deep Space, and the Resulting Shift in Fundamental Research Questions in Geology and Astronomy**

**Abstract**

Tuesday, November 2: 11:00 AM
Colorado Convention Center: Room 703

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**Wednesday, November 3rd**

### Session No. 240
Garnet and Its Use in Unraveling Metamorphic and Tectonic Processes

**Michael Wells: Co-Author** (Thomas Hoisch: Presenting; Alicia Cruz-Uribe, Eric Kelly, and Timothy Murray: Co-Authors)

**Pressure-Temperature Paths from Garnet Zoning: Integrating Gibbs Method and G-Minimization Approaches**

**Abstract**

Wednesday, November 3: 8:20 AM
Colorado Convention Center: Room 108
<table>
<thead>
<tr>
<th>Session No. 236</th>
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<tbody>
<tr>
<td>Frontiers in Geochemistry: Kinetics and Thermodynamics of Chemical Reactions in Earth Environments through Integrated Field, Experimental, and Theoretical Studies: In Honor of J. Donald Rimstidt</td>
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</table>

**Libby Hausrath: Co-Author** (Megan Elwood Madden: Presenting; Amanda Olsen and Andrew Madden: Co-Authors)

FROM THEORY TO OBSERVATION: THE DATA DRIVEN TRANSITION FROM THERMODYNAMICS TO KINETICS IN MARS GEOCHEMISTRY

**Abstract**

**Wednesday, November 3: 11:00 AM**
Colorado Convention Center: Room 102

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<th>Session No. 285</th>
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<tr>
<td>Transformative Science in the Himalaya and Tibet: Insight from Geophysical, Geochemical, and Geologic Studies</td>
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</table>

**Ganqing Jiang: Co-Author** (Neil McKenzie: Presenting; Nigel Hughes, Shuhai Xiao, Paul Myrow, Birendra Singh, and Mukund Sharma: Co-Authors)

GEOCHEMICAL AND LITHOLOGICAL CONSTRAINTS on THE AGE AND CORRELATION OF THE LESSER HIMALAYA AND THE CENTRAL INDIAN CRATON

**Abstract**

**Wednesday, November 3: 3:55 PM**
Colorado Convention Center: Room 111/113