AGU Submissions

Faculty:

Wendy Barrow

Presenting (Robert Fairhurst, Rod Metcalf: Co-Authors): Poster V41C-0729
Thursday, December 13, 8:00am: MS Exh Hall B
A Retrospective and Prospective Look at Ultrahigh-Pressure Metamorphic Rocks I: Geology, Petrology, Geochemistry, and Tectonics Posters (joint with DI, T)
**Title:** Eclogite Facies Relicts and Decompression Assemblages; Evidence for the Exhumation of a Large Coherent Metabasite Block From > 40 km Depth; Central Metamorphic Terrane, Eastern Klamath Mountains, Northern California
**Abstract**

Brenda Buck

Co-Author (James King, DRI: Presenting): Talk NG43A-06
Thursday, December 13, 2:55pm: MW 3004
Aeolian System Dynamics: Form and Process II
**Title:** Influence of Temporal Scales and Soil Properties on Dust Emissions: a Measurement and Modeling Effort
**Abstract**

Pamela Burnley

Presenting: Poster MR43A-0973
Thursday, December 13, 1:40pm: MS Exh Hall B
Plasticity of Minerals at High Pressures and Temperatures and Implications for Deep-Earth Rheology and Anisotropy II Posters (joint with DI, T, V)
**Title:** Interpreting In-situ Synchrotron X-ray Diffraction Measurements from Deforming Quartz Using An Elastic Plastic Self Consistent (EPSC) Model
**Abstract**

Robert Fairhurst

Co-Author (Wendy Barrow: Presenting): Poster V41C-0729
Thursday, December 13, 8:00am: MS Exh Hall B
A Retrospective and Prospective Look at Ultrahigh-Pressure Metamorphic Rocks I: Geology, Petrology, Geochemistry, and Tectonics Posters (joint with DI, T)
**Title:** Eclogite Facies Relicts and Decompression Assemblages; Evidence for the Exhumation of a Large Coherent Metabasite Block From > 40 km Depth; Central Metamorphic Terrane, Eastern Klamath Mountains, Northern California
**Abstract**
Matt Lachniet

**Presenting:** Talk U22B-02  
**Tuesday, December 11, 10:35am: MW 3004**  
Quaternary Climate Records From the Continents: Comparisons With Their Marine and Polar Cousins III  
**Title:** Central American Rainfall Variations Since 100 ka and Moisture Delivery to Greenland  
**Abstract**

**Co-Author (Alex Roy: Presenting): Poster PP11A-0222**  
**Monday, December 10, 8:00am: MS Exh Hall B**  
Paleoceanography and Paleoclimatology General Contributions I Posters  
**Title:** Glacial Age Precipitation and Temperature Estimates for the Tropical Guatemalan Highlands  
**Abstract**

**Co-Author (LR Johnson: Presenting): Poster U13B-1157**  
**Monday, December 10, 1:40pm: MS Exh Hall B**  
Quaternary Climate Records From the Continents: Comparisons With Their Marine and Polar Cousins I Posters  
**Title:** A Speleothem Record of Tropical Moisture Transport  
**Abstract**

Rod Metcalf

**Co-Author (Wendy Barrow: Presenting): Poster V41C-0729**  
**Thursday, December 13, 8:00am: MS Exh Hall B**  
A Retrospective and Prospective Look at Ultrahigh-Pressure Metamorphic Rocks I: Geology, Petrology, Geochemistry, and Tectonics Posters (joint with DI, T)  
**Title:** Eclogite Facies Relicts and Decompression Assemblages; Evidence for the Exhumation of a Large Coherent Metabasite Block From > 40 km Depth; Central Metamorphic Terrane, Eastern Klamath Mountains, Northern California  
**Abstract**

Adam Simon

**Presiding V31D: Wednesday, December 12, 8:00am, MS Exh Hall B**  
Experiments in Geoscience: Challenges and Future Directions II Posters (joint with MR, DI)

**Presenting (Aaron Bell: Co-Author): Poster V31D-0685**  
**Wednesday, December 12, 8:00am: MS Exh Hall B**  
Experiments in Geoscience: Challenges and Future Directions II Posters
**Title:** Iron Diffusivity in Water Saturated Rhyolite Melt

**Abstract**

**Co-Author (Aaron Bell: Presenting): Poster V31D-0684**

**Wednesday, December 12, 8:00am: MS Exh Hall B**

Experiments in Geoscience: Challenges and Future Directions II Posters

(joint with MR, DI)

**Title:** Experimental Constraints on Pt-Pd-Au Partitioning in an H2O-Haplogranite-Sulfide-Oxide Phase Assemblages

**Abstract**

**Co-Author (Steve Maglio: Presenting): Poster V31D-0687**

**Wednesday, December 12, 8:00am: MS Exh Hall B**

Experiments in Geoscience: Challenges and Future Directions II Posters

(joint with MR, DI)

**Title:** Quantifying Element Mass Transfer at Subduction Zone Conditions by using the Hydrothermal Diamond Anvil Cell and in-situ X-Ray Fluorescence

**Abstract**

---

**Gene Smith**

**Co-Author (Denise Honn: Presenting): Talk V43G-05**

**Thursday, December 13, 2:40pm: MW 3007**

Dynamics and Longevity of Silicic Magma Systems IV: Volcano-Pluton Connections (joint with T)

**Title:** The River Mountains Volcanic Section – Wilson Ridge Pluton, a Long Lived Multiphase Mid-Tertiary Igneous System in Southern Nevada and Northwestern Arizona, USA

**Abstract**

---

**Terry Spell**

**Presenting (Kati Gibler: Co-Author): Poster V33C-1509**

**Wednesday, December 12, 1:40pm: MS Exh Hall B**

Dynamics and Longevity of Silicic Magma Systems I Posters (joint with T)

**Title:** Postcollapse Volcanism in the Valles Caldera, New Mexico: Magma System Dynamics During a Transition Between Large Volume Explosive and Small Volume Effusive Eruptions

**Abstract**

**Co-Author (Denise Honn: Presenting): Talk V43G-05**

**Thursday, December 13, 2:40pm: MW 3007**
Dynamics and Longevity of Silicic Magma Systems IV: Volcano-Pluton Connections (joint with T)

**Title:** The River Mountains Volcanic Section – Wilson Ridge Pluton, a Long Lived Multiphase Mid- Tertiary Igneous System in Southern Nevada and Northwestern Arizona, USA

**Abstract**

Wanda Taylor

**Presenting (Tonia Arriola, Zach Artz, Mengesha Beyene, Trisha Evans, Lisa Kayvon, Wenming Nie, Sam Siebenaler, Greg Zellner: Co-Authors): Poster T33A-1142**

**Wednesday, December 12, 1:40pm: MS Exh Hall B**
Foundering Lithosphere: Observations and Implications, With a Focus on the Sierra Nevada II Posters (joint with H, MR, S, DI, V)
**Title:** Paleoseismicity of the California Wash Fault, Southern Nevada: Implications for Neotectonics and Seismic Hazard

**Abstract**

Co-Author (Sandra Saldana: Presenting): Poster NS11E-0837

**Monday, December 10, 8:00am: MS Exh Hall B**
Fault Imaging and Seismic Hazard Assessment I Posters (joint with PA, S, T)
**Title:** Preliminary Pseudo 3-D Imagery of the State Line Fault, Stewart Valley, Nevada Using Seismic Reflection Data

**Abstract**

Co-Author (M. Beachly: Presenting): Poster NS11E-0836

**Monday, December 10, 8:00am: MS Exh Hall B**
Fault Imaging and Seismic Hazard Assessment I Posters (joint with PA, S, T)
**Title:** High-Resolution Seismic Survey Across the State Line fault, NV

**Abstract**

Michael Wells

**Co-Author (A. Mulch: Presenting): Talk T11G-02**

**Monday, December 10, 8:15am: MW 3022**
Surface Processes, Crustal Rheology, or Regional Geology: What Controls the Structural Architecture of Convergent Continental Orogens? I: Stable Isotopes and Orogenic Topography (joint with H, S, V)
**Title:** Stable Isotope Paleoaltimetry of Evolving Orogenic Plateaus

**Abstract**

Co-Author (Alicia Cruz-Uribe: Presenting): Talk V34C-03
Wednesday, December 12, 4:30pm: MW 3009
Linking Precise Dates to Accurate Ages in Continental Tectonics III (joint with T)
**Title:** Adding $t$ to Garnet P-T Paths using the Lu-Hf Method: Age Constraints on Thrusting and Exhumation Events in the Hinterland of the Sevier Orogen

**Abstract**

Zhongbo Yu

**Co-Author (Jun Yin: Presenting): Poster H51H-0866**
Friday, December 14, 8:00am: MS Exh Hall B
Advances in Ecohydrology: Landscape-Scale Patterns and Processes III Posters (joint with B)
**Title:** Effects of Paleoclimate and Time-Varying Canopy Structures on Paleo-Water Fluxes

**Co-Author (Todd Arrowood: Presenting): Poster H41C-0657**
Thursday, December 13, 8:00am: MS Exh Hall B
Agricultural Threats to Surface Water and Groundwater Quality I Posters
**Title:** Fate and Transport of Acrylamide in Soil and Groundwater Systems: Sorption, Retardation and Numerical Simulations

**Co-Author (Feng Pan: Presenting): Poster H41C-0664**
Thursday, December 13, 8:00am: MS Exh Hall B
Agricultural Threats to Surface Water and Groundwater Quality I Posters

**Students:**

Todd Arrowood

**Presenting (Zhongbo Yu: Co-Author): Poster H41C-0657**
Thursday, December 13, 8:00am: MS Exh Hall B
Agricultural Threats to Surface Water and Groundwater Quality I Posters
**Title:** Fate and Transport of Acrylamide in Soil and Groundwater Systems: Sorption, Retardation and Numerical Simulations

**Co-Author (S. Labahn: Presenting): Poster H41C-0664**
Thursday, December 13, 8:00am: MS Exh Hall B
Agricultural Threats to Surface Water and Groundwater Quality I Posters
Title: Fate of Acrylamide in Soil and Groundwater Systems: Microbial Degradation

Abstract

Aaron Bell

Presenting (Adam Simon: Co-Author): Poster V31D-0684
Wednesday, December 12, 8:00am: MS Exh Hall B

Experiments in Geoscience: Challenges and Future Directions II Posters (joint with MR, DI)
Title: Experimental Constraints on Pt-Pd-Au Partitioning in an H2O-Haplogranite-Sulfide-Oxide Phase Assemblages

Abstract

Co-Author (Adam Simon: Presenting): Poster V31D-0685
Wednesday, December 12, 8:00am: MS Exh Hall B
Experiments in Geoscience: Challenges and Future Directions II Posters (joint with MR, DI)
Title: Iron Diffusivity in Water Saturated Rhyolite Melt

Abstract

Robert Davis

Co-Author (Sandra Saldana: Presenting): Poster NS11E-0837
Monday, December 10, 8:00am: MS Exh Hall B
Fault Imaging and Seismic Hazard Assessment I Posters (joint with PA, S, T)
Title: Preliminary Pseudo 3-D Imagery of the State Line Fault, Stewart Valley, Nevada Using Seismic Reflection Data

Abstract

Co-Author (M. Beachly: Presenting): Poster NS11E-0836
Monday, December 10, 8:00am: MS Exh Hall B
Fault Imaging and Seismic Hazard Assessment I Posters (joint with PA, S, T)
Title: High-Resolution Seismic Survey Across the State Line fault, NV

Abstract

Denise Honn

Presiding V42C: Thursday, December 13, 10:20am, MW 3007
Dynamics and Longevity of Silicic Magma Systems III: Volcanic and Plutonic Perspectives (joint with T)

Presiding V51C: Friday, December 14, 8:00am, MS Exh Hall B
Dynamics and Longevity of Silicic Magma Systems VI Posters (joint with T)

**Presenting (Adam Simon, Gene Smith, Terry Spell: Co-Authors): Talk V43G-05**

**Thursday, December 13, 2:40pm: MW 3007**
Dynamics and Longevity of Silicic Magma Systems IV: Volcano-Pluton Connections (joint with T)
**Title:** The River Mountains Volcanic Section – Wilson Ridge Pluton, a Long Lived Multiphase Mid-Tertiary Igneous System in Southern Nevada and Northwestern Arizona, USA

**Abstract**

---

**Steve Maglio**

**Presenting (Adam Simon: Co-Author): Poster V31D-0687**

**Wednesday, December 12, 8:00am: MS Exh Hall B**
Experiments in Geoscience: Challenges and Future Directions II Posters (joint with MR, DI)
**Title:** Quantifying Element Mass Transfer at Subduction Zone Conditions by using the Hydrothermal Diamond Anvil Cell and in-situ X-Ray Fluorescence

**Abstract**

---

**Feng Pan**

**Presenting (Zhongbo Yu: Co-Author): Poster H23B-1300**

**Tuesday, December 11, 1:40pm: MS Exh Hall B**
Uncertainty Analysis in Groundwater Modeling II Posters
**Title:** Sensitivity Analysis of Hydraulic Parameters on Radionuclide Transport Uncertainty in the Unsaturated Zone of Yucca Mountain

**Abstract**

---

**Co-Author (J. Zhu: Presenting): Poster H51F-0845**

**Friday, December 14, 8:00am: MS Exh Hall B**
Scaling of Hydrological Processes in the Unsaturated Zone: Theory and Applications II Posters
**Title:** Incorporating Soil Hydraulic Parameter Statistics in Developing Pedo-transfer Functions

**Abstract**

---

**Colin Robins**

**Co-Author (Sandra Saldana: Presenting): Poster NS11E-0837**

**Monday, December 10, 8:00am: MS Exh Hall B**
Fault Imaging and Seismic Hazard Assessment I Posters (joint with PA, S, T)

**Title:** Preliminary Pseudo 3-D Imagery of the State Line Fault, Stewart Valley, Nevada Using Seismic Reflection Data

**Abstract**

Co-Author (M. Beachly: Presenting): Poster NS11E-0836
Monday, December 10, 8:00am: MS Exh Hall B
Fault Imaging and Seismic Hazard Assessment I Posters (joint with PA, S, T)
**Title:** High-Resolution Seismic Survey Across the State Line fault, NV

**Abstract**

Alex Roy

Presenting (Matt Lachniet: Co-Author): Poster PP11A-0222
Monday, December 10, 8:00am: MS Exh Hall B
Paleoceanography and Paleoclimatology General Contributions I Posters
**Title:** Glacial Age Precipitation and Temperature Estimates for the Tropical Guatemalan Highlands

**Abstract**

Michele Stropky

Co-Author (Sandra Saldana: Presenting): Poster NS11E-0837
Monday, December 10, 8:00am: MS Exh Hall B
Fault Imaging and Seismic Hazard Assessment I Posters (joint with PA, S, T)
**Title:** Preliminary Pseudo 3-D Imagery of the State Line Fault, Stewart Valley, Nevada Using Seismic Reflection Data

**Abstract**

Co-Author (M. Beachly: Presenting): Poster NS11E-0836
Monday, December 10, 8:00am: MS Exh Hall B
Fault Imaging and Seismic Hazard Assessment I Posters (joint with PA, S, T)
**Title:** High-Resolution Seismic Survey Across the State Line fault, NV

**Abstract**

Jun Yin

Presenting (Zhongbo Yu: Co-Author): Poster H51H-0866
Friday, December 14, 8:00am: MS Exh Hall B
Advances in Ecohydrology: Landscape-Scale Patterns and Processes III Posters (joint with B)
**Title:** Effects of Paleoclimate and Time-Varying Canopy Structures on Paleo-Water
Fluxes

Abstract