

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**

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[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

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[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

(joint with MR, DI)

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

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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

[Abstract](#)

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

[Abstract](#)

Co-Author (Feng Pan: Presenting): 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](#)

Students:

Todd Arrowood

Presenting (Zhongbo Yu: Co-Author): Poster H41C-0657

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Title: Fate and Transport of Acrylamide in Soil and Groundwater Systems: Sorption, Retardation and Numerical Simulations

[Abstract](#)

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
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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
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Title: Iron Diffusivity in Water Saturated Rhyolite Melt

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Robert Davis

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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
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(joint with T)

Title: The River Mountains Volcanic Section – Wilson Ridge Pluton, a Long Lived
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Title: Quantifying Element Mass Transfer at Subduction Zone Conditions by using the
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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

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Alex Roy

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Paleoceanography and Paleoclimatology General Contributions I Posters

Title: Glacial Age Precipitation and Temperature Estimates for the Tropical Guatemalan
Highlands

[Abstract](#)

Michele Stropky

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Jun Yin

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