

Climate and Environment (Continued)

Monday @ 1050, MW 2008

Dr. David Miller: *Tracking agricultural soil nitric oxide emission variations with novel isotopic measurements*

Monday Posters

Sydney Clark: *Arctic sea ice: an investigation into the origin of nitrate using $\delta^{15}N$, $\delta^{18}O$ and $\Delta^{17}O$*

Tuesday @ 1355, MW2012

Dr. Sylvia Dee: *Partitioning the effects of Global Warming on the Hydrological Cycle with Stable Isotopes in Water Vapor*

Tuesday @ 1600, MW2018

Prof. Jim Russell: *Late Pleistocene temperature, hydrology, and glaciation in equatorial East Africa*

Tuesday Posters

Will Daniels: *Paleolimnologic and modeling perspectives on the physical and ecological sensitivity of Arctic tundra lakes to temperature changes*

Rachel Lupien: *Leaf wax biomarker reconstruction of Early Pleistocene hydrological variation*

Grace Molino: *Natural and Anthropogenic Causes of Accelerated Sediment Accumulation Rates in Nehalem Bay Salt Marshes, Oregon*

Wednesday Posters

Dr. Jiajue Chai: *Investigating isotopic signatures of atmospheric nitrous acid (HONO)*

Assoc. Prof. Steve Clemens: *PhaseMap: Comparison of Late Pleistocene Surface Temperature Proxies to an Accelerated CCSM3 Simulation*

Thursday Posters

Prof. Jim Russel: *Orbital-scale variations in Indo-Pacific hydroclimate during the mid- to late Pleistocene from Lake Towuti, Indonesia*

Chris Kelly: *Shifting Climate Modes and a Warm Little Ice Age*

Nora Richter: *The widespread distribution of Group I alkenone-producing haptophyte: Implications for quantitative temperature reconstructions.*

Thursday @ 0800, MW 2022

Jennifer Kowalczyk: *Phanerozoic pCO₂ recorded by the plants that used it: refinement, independent validation and multi-proxy comparison of a physiological model*

Thursday @ 0800, MW 2010

Prof. Yongsong Huang: *Discovery of a novel alkenone-producing haptophyte in freshwater and oligosaline lakes*

Thursday @ 1355, MW 2004

Will Longo: *Differential Millennial-scale Responses of Terrestrial Carbon Cycling Dynamics to Warming*

Thursday @1745, MW 3001

Richard Vachula: *A comprehensive reconstruction of Alaskan Arctic fire history over the last 30,000 years*

Friday @ 1135, MW2012

Dr. Sylvia Dee: *Last Millennium External Forcing Undetectable in Coral Records of Central Pacific Climate*

Friday Posters

Maria Tsukernik: *Atmospheric rivers causing high accumulation storms in East Antarctica: regional climate model evaluation*

Planetary Science

Monday Posters

Vivian Sun: *On Overview of Orbital Detections of Hydrated Silica and silica-rich rocks on Mars*

Tuesday @ 1425, MW 3002

Prof. James Head: *Predictions and Tests of the "Late Noachian Icy Highlands" Climate Model: Can Evidence for Fluvial/Lacustrine Systems be Reconciled?*

Tuesday Posters

Kevin Cannon: *Early Martian Clay Formation Beneath a Massive Outgassed Atmosphere*

Wednesday Posters

Taylor Hough: *Sulfur concentration of mare basalts at sulfide saturation at high pressures and temperatures – Implications for S in the lunar mantle*

Thursday @ 1715, MW 2007

Prof. Brandon Johnson: *Formation of the Sputnik Planum basin and the thickness of Pluto's subsurface ocean*

Friday @ 0836, MW2009

Elizabeth Fisher: *Evidence for Surface Ice at the Lunar South Pole from LRO's Lunar Orbiter Laser Altimeter and Diviner Lunar Radiometer*

Geophysics

Monday Posters

Dr. Zach Eilon: *High seismic attenuation at mid-ocean ridge reveals the distribution of deep melt*

Prof. Don Forsyth: *Attenuation in the Upper Mantle Beneath the Juan de Fuca Plate Using Rayleigh Wave Tomography*

Tuesday @ 0845, MS307

Prof. Colleen Dalton: *The thermal structure of the cratonic lithosphere from global Rayleigh Wave attenuation*

Geophysics (continued)

Tuesday @ 1600, MS102 Gutenberg Lecture

Prof. Karen Fischer: *Seismological Insights on the Lithosphere-Asthenosphere Boundary*

Tuesday Posters

Warren Smith: *Tectonic activity and stratigraphic history over the last 130-540 ka on the Southern Shelf of the Sea of Marmara, western North Anatolian Fault*

Leif Tokle: *The role of ilmenite content on the rheology of olivine aggregates*

Ningli Zhao: *Grain Boundary Sliding in Deforming Wehrlite: Rheology and Microstructure*

Dr. Keishi Okazaki: *Deformation Experiment on Quartz Aggregates with High Porosity and High Water Contents*

Wednesday @ 1425, MS 303

Dr. Paul Raterron: *Effect of Fe Content on Olivine Viscosity at the P-T Conditions of Terrestrial-Planet Interiors*

Wednesday Posters

Chris Carchedi: *Constructing a High-Resolution Temporal Record of Spreading-Rate Variations Along the Mid-Atlantic Ridge*

Noah Hammond: *Experimental Constraints on the Fatigue of Icy Satellites by Tidal Forces*

Taka Kanaya: *Brittle to semibrittle transition in quartz sandstone: Energetics and crack interaction*

Thursday @ 0830, MS303

Dr. Nicholas Mancinelli: *Observing and modeling frequency-dependence in Sp receiver functions; Implications for continental lithosphere*

Thursday @ 1410, MW2005

Prof. Christian Huber: *The shallow water cycle budget of Mars from Recurring Slope Lineae*

Thursday Posters

Karen Godfrey: *Rayleigh Wave Phase Velocity in the Upper Mantle Beneath the Indian Ocean*

Dr. Zhitu Ma: *Extracting Rayleigh wave dispersion from ambient noise across the Indian Ocean*

Dr. Tarsilo Girona: *Shallow Seismicity at open-vent volcanoes*

Prof. Greg Hirth: *Experimental investigation of processes responsible for dehydration weakening and embrittlement*

Brown University Earth, Environmental and Planetary Sciences (DEEPS)



Presentations at AGU 2016

Geochemistry, Mineralogy, and Petrology

Monday @ 1715, MS 303

Boda Liu: *Effects of Size and Shape of Mantle Source on Fractionation of Isotopes During Melting of a Heterogeneous Mantle*

Tuesday @ 1020, MW 2007

Prof. Steve Parman: *Mercury's Magma Ocean*

Wednesday @ 1150, MS 301

Prof. Reid Cooper: *Load Relaxation of Olivine Single Crystals*

Wednesday @ 1425, MS 303

Dr. Paul Raterron: *Effect of Fe Content on Olivine Viscosity at the P-T Conditions of Terrestrial-Planet Interiors*

Thursday @ 0915, MS 104

Dr. Ayla Pamukcu: *Evaluating the mush extraction +multiple magma batch model for the Lake City magmatic system using zircon U/Pb TIMS-TEA*

Friday @ 1410, MS 307

Prof. Steve Parman: *Punctuated Growth of Continental Crust*

Friday @ 1455, MW2009

Dr. Charles-Edouard Boukare: *Effects of Iron Partitioning on Earth's Magma Ocean*

Friday Morning Posters

Jack Krantz: *Noble Gas Recycling: Experimental Constraints on Ar, Kr, and Xe Solubility in Serpentine*

Climate and Environment

Monday @ 1135, MW 2006

Nick O'Mara: *Spatially Explicit Models of Carbon and Alkalinity Cycling in the Coastal Oceans*

Monday @ 1440, MW 3012

Assoc. Prof. Baylor Fox-Kemper: *Parameterizations with and without Climate Process Teams*