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 δ15N, δ18O and Δ17O

Tuesday @ 1355, MW 2012
Dr. Sylvia Dee: Partitioning the effects of Global Warming on the Hydrological Cycle with Stable Isotopes in Water Vapor

Tuesday @ 1600, MW 2018
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 Russell: 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

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 @ 1715, MW 2007
Prof. Brandon Johnson: Formation of the Sputnik Planum basin and the thickness of Pluto’s subsurface ocean

Friday @ 0836, MW 2009
Elizabeth Fisher: Evidence for Surface Ice at the Lunar South Pole from LRO’s Lunar Orbiter Laser Altimeter and Diviner Lunar Radiometer

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, MW 2009
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, MS 307
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 Wehlrite: 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 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

Geochmistry, 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, MW 2009
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