

A6. All awardees and runners up for best student presentation

2014



Oral Presentation Winner

Kristina Walowski - University of Oregon

Slab melting and magma generation beneath the southern Cascade Arc

Coauthors: Paul Wallace, Michael Clynne



Poster Presentation Winner

Andrew Parsons - University of Leeds

Microstructural analysis of the Greater Himalayan Sequence, Annapurna-Dhaulagiri Himalaya, central Nepal: Channel flow and orogen-parallel deformation

Coauthors: Richard J Phillips, GE Lloyd, MP Searle, RD Law



Honorable Mention

Yelebe Birhanu – University of Montana

GPS constraints on the spatial distribution of extension in the Ethiopian Highlands and Main Ethiopian Rift

Coauthors: Rebecca Bendick, Shimeles Fisseha, Elias Lewi, Robert Reilinger, Robert King, G. Kianji

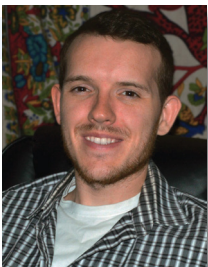


Honorable Mention

Lucile Bruhat – Stanford University

Inverting for shear stress rate on the Northern Cascadia megathrust using geodetic data

Coauthors: Paul Segall, Andrew Bradley



Honorable Mention

James Farrell – University of Connecticut

Brittle deformation within the eastern North American volcanic margin: Paleostress inversion of faults in the Hartford basin

Coauthors: Jean Crespi, Denali Ostebo, Megan Weingart



Honorable Mention

William Hutchison – University of Oxford

Integrating remote sensing, field studies and CO₂ surveys to unravel structural controls on fluid pathways at a young rift volcano

Coauthors: David M. Pyle, Tamsin A. Mather, Juliet Biggs, Gezahegn Yirgu



Oral Presentation Winner

Megan Newcombe – Caltech

Chemical zonation in olivine-hosted melt inclusions: A record of syn-eruptive cooling

Coauthors: Alessandro Fabbri, Youxue Zhang, Chi Ma, Marion Le Voyer, Yunbin Guan, John Eiler, Alberto Saal, Edward Stolper



Poster Presentation Winner

James Muirhead – University of Idaho

The evolving contribution of border faults and intra-rift faults in early-stage East African rifts: insights from the Natron (Tanzania) and Magadi (Kenya) basins

Coauthors: Simon Kattenhorn, Edwin Dindi, Remigius Gama



Honorable Mention

Suzanne Birner – Stanford University

Variations in oxygen fugacity among forearc peridotites from the Tonga trench

Coauthors: Jessica Warren, Elizabeth Cottrell, Oscar Lopez, Fred Davis, Trevor Falloon



Honorable Mention

Ryan Gallacher – National Oceanography Centre Southampton

Mantle structure beneath the Afar triple junction derived from surface wave tomography

Coauthors: Derek Keir, Nicholas Harmon, Graham Stuart, Sylvie Leroy, James Hammond, J-Michael Kendall, Atalay Ayele, Berhe Goitom, Ghebrebrhan Ogubazghi



Honorable Mention

Stephanie Grocke – Oregon State University

Storage conditions and temporal signals for the Tara supereruption magma; insights from geothermobarometry and quartz chemistry

Coauthors: Shanaka L. de Silva, Jan M. Lindsay, Rodrigo Iriarte, Elizabeth Cottrell, B. Andrews



Honorable Mention

Jiyao Li – Lamont-Doherty Earth Observatory

Constraints from seismic reflection signature on the seismogenic region in the Alaska/Aleutian subduction zone

Coauthors: Anne Bécel, Donna J. Shillington, M.R. Nedimovic, Harold. Kuehn, Spahr C. Webb



Oral Presentation Winner

Maryjo Brounce – University of Rhode Island

Fe³⁺/ΣFe variation in Mariana arc and back-arc magmas and primary fO₂ of the mantle wedge

Coauthors: Katherine A. Kelley, Elizabeth Cottrell



Poster Presentation Winner

Samer Naif – UC San Diego

An extensive melt layer beneath the oceanic lithosphere–asthenosphere boundary discovered by magnetotelluric data

Coauthors: Kerrey W. Key, Steven Constable, Robert L. Evans



Honorable Mention

Erin DiMaggio – Arizona State University

Late Pliocene – Early Pleistocene geologic history of Eastern Ledi–Geraru, Ethiopia: implications for the evolution of the southern Afar depression and hominid paleoenvironments

Coauthors: Ramon Arrowsmith, Christopher J. Campisano, Kaye Reed, Alan Deino

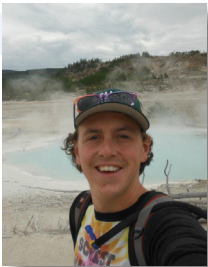


Honorable Mention

Kristina Walowski – University of Oregon

Understanding magma formation and mantle conditions in the Lssen segment of the Cascade Arc: Insights from volatile contents of olivine-hosted melt inclusions

Coauthors: Daniel J. Rasmussen, Paul J. Wallace, Michael A. Clynne



Honorable Mention

Brad Pitcher – Oregon State University

The evolution of the historic Mt. Etna magma plumbing system: A comprehensive in situ plagioclase compositional and isotopic study

Coauthors: Wendy Bohrsen, Marco Viccaro



Honorable Mention

D. Sarah Stamps – Purdue University

Minimal role of basal shear tractions in driving Nubia–Somalia divergence across the East African Rift System

Coauthors: Eric Calais, Giampiero Iaffaldano, Lucy M. Flesch



Oral Presentation Winner

Christie Regalla – Penn State University

An alternative mechanism for forearc subsidence along the Northeast Japan erosive margin?

Coauthors: Donald Fisher, Kevin Furlong, Eric Kirby



Poster Presentation Winner

Manahloh Belachew – University of Rochester

Timing and dynamics of dike intrusions in Afar, Ethiopia: Faulting above dikes

Coauthors: Cindy Ebinger, Dustin Cote



Honorable Mention

Brett Carpenter – Penn State University

Mineralogical controls of fault healing in natural and simulated gouges with implications for fault zone processes and the seismic cycle

Coauthors: Matt Ikari, Chris Marone



Honorable Mention

Jamie Howarth – University of Otago

Reconstructing earthquake-driven erosion in the Southern Alps, New Zealand using the sedimentary record

Coauthors: Sean Fitzsimons, Richard Norris, Geraldine Jacobsen, Delia Strong



Honorable Mention

Jean-Arthur Olive – MIT

Evidence for trench-normal flow beneath the Western Hellenic slab from shear-wave splitting analysis

Coauthors: Stephane Rondenay, Frederick Pearce



Honorable Mention

Gemma Smith – National Oceanography Center

Fault structure, properties and activity of the Makran Accretionary Prism and implications for seismogenic potential

Coauthors: Lisa McNeill, Timothy J Henstock, Jon Bull



Oral Presentation Winner

Linda Chernak – Brown University

Experimental deformation of dehydrating antigorite: Challenging models of dehydration embrittlement

Coauthor: Greg Hirth



Poster Presentation Winner

Kristin Morell – Penn State

Rock uplift and transient landscape development in response to subduction of the Cocos Ridge, Central American Volcanic Arc

Coauthors: Eric Kirby, Donald Fisher, Matthijs Van Soest



Honorable Mention

Maryjo Brounce – University of Rhode Island

Variations in Fe oxidation state at arc volcanoes driven by degassing and crystallization

Coauthors: Katherine Kelley, Elizabeth Cottrell



Honorable Mention

Nathaniel Miller – MIT/ Woods Hole Oceanographic Institute

Growth of sediment diapirs in subduction zones

Coauthors: Mark D. Behn



Honorable Mention

Erin Todd – UC Santa Cruz

The same variably enriched mantle wedge in the SW Pacific from arc birth to death

Coauthors: James B. Gill



Honorable Mention

Tamara Worzewski, IFM-GEOMAR

The cycle of hydration and fluid release in the Costa Rican subduction zone imaged through electromagnetic soundings: Where has all the water gone?

Coauthors: Marion Jegen, Heidrun Kopp, Heinrich Brasse, Waldo Taylor