

ABOUT AGU

Outstanding Student Paper Awards

The following members received Outstanding Student Paper Awards at the 2008 AGU Fall Meeting in San Francisco, Calif. See also Outstanding Student Paper Awards published previously (Eos, 90(18), 159–160, and 90(19), 170).

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Seismology (S)

Carola Di Alessandro, Istituto Nazionale di Geofisica e Vulcanologia, Rome, Italy, *Influence of site classification on computing empirical ground-motion prediction equations in Italy.*

Annemarie Baltay, Stanford University, Stanford, Calif., *Estimation of scaled seismic energy, apparent stress and acceleration.*

Moritz Bernauer, Ludwig-Maximilians-Universität, Munich, Germany, *Inferring near-receiver structure from combined measurements of rotational and translational ground motions.*

Eric G. Daub, University of California, Santa Barbara, *Accounting for gouge-scale strain localization in dynamic earthquake ruptures.*

Garrett G. Euler, Washington University, St. Louis, Mo., *Shear velocity structure of the Cameroon volcanic line region from Rayleigh wave phase velocities.*

Yong Keun Hwang, University of Michigan, Ann Arbor, *Global teleseismic P wave attenuation.*

Morgan P. Moschetti, University of Colorado, Boulder, *Results from ambient noise tomography in the western USA using the USArray Transportable Array.*

Natalia Poiata, Earthquake Research Institute, University of Tokyo, Tokyo, Japan, *Source process of the 2003 Bam, Iran, earthquake: Subsurface rupture that generated extreme ground motion.*

Ryan C. Porter, University of Arizona, Tucson, *Crustal anisotropy in southern California: Evidence for a fossilized detachment?*

Jana Stankova-Pursley, New Mexico Institute of Mining and Technology, Socorro, *Apparent stress variation in response to seamount subduction at Nicoya Peninsula, Costa Rica.*

Robert C. Viesca, Harvard University, Cambridge, Mass., *Determining pore pressures along a slip surface within a saturated elastic-plastic porous medium.*

Zhongwen Zhan, California Institute of Technology, Pasadena, *High-resolution source parameters using calibration from ambient seismic noise.*

Space Physics and Aeronomy (SPA)

Patrick Alken, University of Colorado, Boulder, *Modeling the eastward equatorial electric field using CHAMP magnetometer data.*

Katherine L. Baldwin, U.S. Naval Research Laboratory, Washington, D. C., *Calibration results for the COR2 instrument aboard the STEREO satellite.*

Megan Lee Cartwright, University of California, Los Angeles, *Heliospheric evolution of small-scale magnetic structures.*

Amal Chandran, University of Colorado, Boulder, *Longitudinal variability in PMC structures observed from the CIPS experiment on the AIM spacecraft: Impact on PMC occurrence frequency and brightness.*

Robin C. Colaninno, George Mason University, Fairfax, Va., *Mass measurements of*

coronal mass ejections using the SECCHI-COR2 coronagraphs.

Tzu-Wei Fang, National Central University, Jhongli City, Taiwan, and High Altitude Observatory, National Center for Atmospheric Research, Boulder, Colo., *Spatial variation of the pre-reversal enhancement: Model results.*

Lucas D. Hurd, Clemson University, Clemson, S. C., *Enhanced eddy diffusion and large eddies above the nominal turbopause height.*

Scott Knappmiller, University of Colorado, Boulder, *Mass analysis of charged aerosol particles during the MASS/ECOMA campaign.*

Eric E. Lawrence, University of California, Los Angeles, *Reconnection between magnetic flux ropes in a laboratory plasma.*

Wen Li, University of California, Los Angeles, *Evaluation of whistler-mode chorus intensification on the nightside during an injection event observed on the THEMIS spacecraft.*

Nicholas M. Pedatella, University of Colorado, Boulder, *Variability in the longitudinal structure of the low-latitude ionosphere.*

Denys Piddychiy, Stanford University, Stanford, Calif., *Characterization of the ionosphere above the HAARP HF heater using DEMETER satellite data.*

Arto Sandroos, University of Helsinki, Helsinki, Finland, *Injection of heavy ions into diffusive shock acceleration.*

Yuka Sato, Tohoku University, Sendai, Japan, *Ground-based observation of MF auroral radio emissions in the polar cap and cusp regions.*

Xudong Sun, Stanford University, Stanford, Calif., *Polar magnetic fields observed during the last four solar minima.*

Torbjorn Sundberg, Royal Institute of Technology, Stockholm, Sweden, *On the properties of the ionospheric convection drivers.*

Yuji Tsuji, Solar-Terrestrial Environment Laboratory, Nagoya University, Nagoya, Japan, *Storm-time electric fields in the mid-latitude ionosphere observed by ground magnetometers and the Akebono satellite.*

Nicholeen M. Viall, Boston University, Boston, Mass., *On the source of periodic solar wind number density structures using the alpha to proton abundance ratio.*

Marissa F. Vogt, University of California, Los Angeles, *Reconnection and flows in the Jovian magnetotail as inferred from magnetometer observations.*

Linghua Wang, University of California, Berkeley, *STEREO/STE observations of X-rays and ENAs.*

Study of the Earth's Deep Interior (SEDI)

Manuele Faccenda, ETH Zürich, Zürich, Switzerland, *Subduction zone anisotropic patterns produced by faulting and hydration of the slab.*

Daniel M. Reaman, Ohio State University, Columbus, *Windows into the solid-state viscosity and seismic anisotropy of Earth's inner core inferred*

from experiments on micro-fabricated, controlled-geometry samples.

Jenny Suckale, Massachusetts Institute of Technology, Cambridge, *How to make the most out of level sets for geodynamical modeling.*

Matthew L. Whitaker, State University of New York at Stony Brook, *Acoustic velocities and thermoelastic properties of FeSi at high P and T.*

Chunpeng Zhao, Arizona State University, Tempe, *Investigating the edges of the large low shear velocity province in the lowermost mantle beneath the Pacific Ocean.*

Tectonophysics (T)

Nicolas Brantut, Centre National de la Recherche Scientifique, Ecole Normale Supérieure, Paris, France, *Thermo-chemical pressurization of fault gouges during coseismic slip.*

Alicia Cruz-Urbe, Northern Arizona University, Flagstaff, *Ages of Sevier thrusting from dating of metamorphic garnet using the Lu-Hf method.*

Maria H. Gudmundsdottir, Stanford University, Stanford, Calif., *Mechanisms of tectonic uplift in the Santa Cruz Mountains, CA.*

Janelle Homburg, Lamont-Doherty Earth Observatory, Columbia University, Palisades, N. Y., *The jelly sandwich bites back: A case study of the viscosity contrast between the lower crust and upper mantle from the Oman ophiolite.*

Christina Plattner, Ludwig-Maximilians-Universität, Munich, Germany, *Baja transfer by partial coupling with the Pacific plate.*

Margaret Popek, Pennsylvania State University, University Park, *Effects of heterogeneous permeability on surface heat flow near Parkfield, CA.*

Steven A. F. Smith, University of Durham, Durham, UK, *The nature and evolution of fluid-related weakening mechanisms along a continental low-angle normal fault: The Zuccale Fault, Elba Island, Italy.*

Daniel R. Viète, Australian National University, Canberra, Australian Capital Territory, Australia, *Thermal durations and heating behavior for the Barrovian metamorphism, Scotland.*

David E. Wolf, Cornell University, Ithaca, N. Y., *Lu-Hf dating of garnet constrains timing of metamorphism and deformation, Prince Rupert area, British Columbia.*

Volcanology, Geochemistry, and Petrology (VGP)

Emma R. Humphreys, University of Bristol, Bristol, UK, *Mantle xenoliths from the Calatrava Volcanic Province, Spain: Evidence for carbonatite-silicate interaction in the upper mantle.*

Leif Karlstrom, University of California, Berkeley, *The stability and spacing of crustal magma chambers.*

Catherine Macris, University of California, Los Angeles, *Inter-mineral iron isotope fractionation in San Carlos xenoliths.*

Mónica de Mier, Universitat Politècnica de Catalunya, Barcelona, Spain, *Numerical simulation of two-fluid mingling using the Particle Finite Element Method with applications to magmatic and volcanic processes.*

Nicholas J. Pester, University of Minnesota, Minneapolis, *Phase equilibria controls on fluid chemistry at the Lucky Strike hydrothermal field, Mid-Atlantic Ridge.*

Shellie Rose, University of Pittsburgh, Pittsburgh, Pa., *The eruptive behavior of Klyuchevskoy volcano, Kamchatka.*

Arron R. Steiner, California State University, Fullerton, *Mafic inputs to the Augustine magma system over the past 2,200 years.*