

## Outstanding Student Paper Awards

The following members received Outstanding Student Paper Awards at the 2011 AGU Fall Meeting in San Francisco, Calif. See also "Outstanding Student Paper Awards" published previously (Eos, 93(27), 253–254; Eos, 93(28), 260–261; and Eos, 93(30), 293).

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### Space Physics and Aeronomy (SPA)

**Henrique Aveiro**, Cornell University, Ithaca, New York, *Equatorial spread F-related currents: 3-D simulations and observations*

**Matt Broughton**, Dartmouth College, Hanover, New Hampshire, *Experimental tests of a topside generation mechanism for auroral medium frequency burst radio emissions*

**Shannon Curry**, University of Michigan, Ann Arbor, *Model comparison of oxygen ion loss at Mars*

**Daniel Gershman**, University of Michigan, Ann Arbor, *Observations of interstellar helium pickup ions in the inner heliosphere*

**Michael Hartinger**, University of California, Los Angeles, *Observations of a cavity mode outside the plasmasphere by THEMIS*

**Heli Hietala**, University of Helsinki, Helsinki, Finland, *Particle acceleration in shock-shock collision: Model to data comparison*

**Jennifer Kissinger**, University of California, Los Angeles, *Is a substorm expansion required to initiate a steady magnetospheric convection event?*

**Xianjing Liu**, University of Colorado, Boulder, *Altitude response of the thermosphere mass density to CIR/HSS storm in solar minimum*

**Bennett A. Maruca**, Harvard University, Cambridge, Massachusetts, *Constraints from instabilities on alpha-particle temperature anisotropy in the solar wind*

**Dmitriy Subbotin**, University of California, Los Angeles, *Three-dimensional radiation belt simulations in terms of adiabatic invariants using only one grid*

**Weichao Tu**, University of Colorado, Boulder, *Quantifying radial diffusion of*

*radiation belt electrons based on global MHD simulation validated by GOES and THEMIS measurements*

**Roger Varney**, Cornell University, Ithaca, New York, *Simulations of conjugate heating experiments including suprathermal electron transport*

**Maria Weber**, High Altitude Observatory, National Center for Atmospheric Research, Boulder, Colorado, *Comparing simulations of rising flux tubes through the solar convection zone with observations of active region properties: Constraining the dynamo field strength*

**Jongsoo Yoo**, Princeton University, Princeton, New Jersey, *Measurement of the in-plane ion flow and space potential profiles in the diffusion region of magnetic reconnection*

### Study of the Earth's Deep Interior (SEDI)

**Jean-Arthur Olive**, Massachusetts Institute of Technology, Cambridge, *Evidence for trench-normal flow beneath the western Hellenic slab from shear-wave splitting analysis*

### Tectonophysics (T)

**Guy Fitz**, University of Texas at Austin, *Regional tectonic context, timing, and intrusion mechanism of gneiss domes, eastern Papua New Guinea, from offshore seismic reflection and well data*

**Johanna Nevitt**, Stanford University, Stanford, California, *Slip transfer across fault discontinuities within granitic rock at the brittle-ductile transition*

**Ross Parnell-Turner**, University of Cambridge, Cambridge, UK, *40 million years of the Iceland plume*

**Thomas Theunissen**, Université Montpellier 2, Montpellier, France, *Crustal deformation at the southernmost part of the Ryukyu subduction (East Taiwan) as revealed by new marine seismic experiments*

### Union (U)

**Besim Dragovic**, Boston University, Boston, Massachusetts, *Dehydration history of subducted lithologies, Sifnos, Greece*

**Han Yue**, University of California, Santa Cruz, *Inversion of high-rate (1 sps) GPS data for rupture process of the 11 March 2011 Tohoku earthquake (M<sub>w</sub> 9.1)*

### Volcanology, Geochemistry, and Petrology (VGP)

**Fanny Garel**, Institut de Physique du Globe de Paris, Paris, France, *Experimental study of the surface thermal signature of gravity currents: Application to the assessment of lava flow effusion rate*

**Alicia Hotovec**, University of Washington, Seattle, *Examples of earthquakes as a source of volcanic tremor*

**Noah McLean**, Massachusetts Institute of Technology, Cambridge, *Quantification of mass independent fractionation in Pb by TIMS and implications for U-Pb geochronology*

**Patricia Nadeau**, Michigan Technological University, Houghton, *High temporal resolution SO<sub>2</sub> emission rate data as part of a multiparameter approach to studying summit vent activity at Kilauea volcano*

**Megan Newcombe**, California Institute of Technology, Pasadena, *Zonation of volatile and major elements in basaltic melt inclusions: A snapshot of syn-eruptive processes*

**Kaori Tsukui**, Lamont-Doherty Earth Observatory, Palisades, New York, *Magnetostratigraphy and high precision U-Pb zircon geochronology of the Middle Eocene Bridger Formation, WY: Calibration of the Eocene GP*