

## 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 in future issues of Eos.

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### Near Surface Geophysics (NS)

**Ahmad Ali Behroozmand**, Aarhus University, Aarhus, Denmark, *Joint inversion of MRS and TEM data*

**Indrajit Das**, Stanford University, Stanford, California, *Long period, long duration seismic events during hydraulic fracture stimulation of a shale gas reservoir*

### Nonlinear Geophysics (NG)

**Mohammad Farazmand**, McGill University, Montreal, Quebec, Canada, *Computation of Lagrangian coherent structures from their variational theory*

**Laura Sanchez**, University of Western Ontario, London, Ontario, Canada, *A lattice gas cellular automaton approach to model volcanic eruptions*

### Ocean Sciences (OS)

**Peter Gaube**, Oregon State University, Corvallis, *Eddy-induced Ekman pumping from sea-surface temperature and surface current effects*

**Gabrielle Inglis**, University of Rhode Island, Kingston, *Detection of diffuse sea floor venting using structured light imaging*

**Tom Kwasnitschka**, Leibniz Institute of Marine Sciences, Kiel, Germany, *3D-reconstruction of recent volcanic activity from ROV-video, Charles Darwin Seamounts, Cape Verdes*

**Sophie McCoy**, University of Chicago, Chicago, Illinois, *Changes in species interactions among coralline algae suggest ecological response to ocean acidification*

**Andrew Smith**, University of Texas at Austin, *Observations and models of heat and*

*salt generation at a deepwater Gulf of Mexico vent*

**Ye Tao**, Jacobs University, Bremen, Germany, *Estimation of hydrothermal plume heat flux with the help of high resolution 3D plume modelings*

**Dustin Winslow**, University of California, Santa Cruz, *Application of a Markov chain Monte Carlo model for determining formation permeability and sensitivity to formation properties from thermal data in flowing subsurface boreholes*

**Zhao Xu**, Texas A&M University, College Station, *Oceanic origin of tropical Atlantic biases*

### Paleoceanography and Paleoclimatology

**Aisling Dolan**, University of Leeds, Leeds, UK, *Iceberg armadas and Pliocene Antarctic ice sheet retreat*

**Donald Penman**, University of California, Santa Cruz, *B/Ca of planktic foraminifera documents elevated pCO<sub>2</sub> and ocean acidification during the Paleocene-Eocene Thermal Maximum*

**Julia Rosen**, Oregon State University, Corvallis, *New insights on the phasing of atmospheric methane and temperature change during the Last Glacial Termination from the North Greenland Eemian (NEEM) ice core*

### Planetary Sciences

**Sarah Crites**, University of Hawai'i at Manoa, Honolulu, *In-situ production of organic molecules at the poles of the Moon*

**Gina DiBraccio**, University of Michigan, Ann Arbor, *MESSENGER observations of magnetopause structure at Mercury*

**Charles Miller**, New Mexico State University, Las Cruces, *Time-varying atmospheric circulation patterns caused by N<sub>2</sub> condensation flows on a simulated triton atmosphere*

**Mark Salvatore**, Brown University, Providence, Rhode Island, *Widespread, juvenile alteration of the Ferrar Dolerite in Beacon Valley, Antarctica*

### Seismology (S)

**Felipe Aron**, Cornell University, Ithaca, New York, *Breaking the outer forearc: The permanent legacy of a subduction earthquake*

**Nimar Arora**, University of California, Berkeley, *Scalable probabilistic inference for global seismic monitoring*

**Annemarie Baltay**, Stanford University, Stanford, California, *Radiated energy of great earthquakes*

**Manahloh Belachew**, University of Rochester, Rochester, New York, *Timing and dynamics of dike intrusions in Afar, Ethiopia: Seismicity patterns and source mechanisms*

**Alice-Agnes Gabriel**, Swiss Federal Institute of Technology Zurich, Zurich, Switzerland, *Macroscopic source properties from dynamic rupture styles in plastic media*

**Yanjun Hao**, University of Memphis, Memphis, Tennessee, *Characterizing the geometry and history of deformation of the Meeman-Shelby fault near Memphis, TN*

**Xiangyu Li**, University of California, Santa Barbara, *Complex rupture process of the 2000 M<sub>w</sub> 8.1 New Ireland earthquake: A revisit*

**Kaijian Liu**, Rice University, Houston, Texas, *3-D teleseismic imaging of scattered wavefields using both Kirchhoff and Born approximations*

**Christian Pelties**, Ludwig Maximilian University of Munich, Munich, Germany, *Aspects of a discontinuous Galerkin approach for 3D dynamic rupture modeling in the case of a complex fault system*

**Youyi Ruan**, Virginia Polytechnic Institute and State University, Blacksburg, *Finite frequency effects of surface waves in 3-D elastic and anelastic Earth models*