

## Poster Sessions

### MONDAY, DECEMBER 05, 2011

#### *NS11A. Hydraulically Fractured Systems and Thermo-Hydro-Mechanical Problems Relevant to Environmental Engineering Posters*

8:00 AM - 12:20 PM; Halls A-C

- NS11A-1446. Flow-induced microearthquakes at the TAG hydrothermal mound on the Mid-Atlantic Ridge

Claire Pontbriand; Robert A. Sohn

#### *OS11A. 20 years of CORK Science I Posters*

8:00 AM - 12:20 PM; Halls A-C

- OS11A-1464. Results from an Integrated Optical/Acoustic Communication System Installed at CORK 857D: Implications for Future Seafloor Observatories

Maurice Tivey; Norman Farr; Jonathan Ware; Clifford Pontbriand

#### *OS11B. Integrated Study of Oceanic Spreading Centers: From Mid-Ocean Ridges to Back-Arc Basins I Posters*

8:00 AM - 12:20 PM; Halls A-C

- OS11B-1472. Computational Fluid Dynamics Simulation of the Rising Portion of a Seafloor Hydrothermal Plume

Houshuo Jiang; John A. Breier; Gregory Dick; Brandy Toner

- OS11B-1489. The effect of an East Pacific Rise offset on the formation of secondary cracks ahead of the Cocos-Nazca Rift at the Galapagos Triple Junction

Deborah K. Smith; Laurent G. Montesi; Hans Schouten; Wen-lu Zhu

- OS11B-1490. The formation and linking of mid-segment detachment faults at the slow-spreading Mid-Atlantic Ridge

Hans Schouten; Deborah K. Smith; Henry J. Dick; Javier Escartin

- OS11B-1491. Active Faulting within the Atlantis Massif at 30°N Mid-Atlantic Ridge Located by an Ocean Bottom Seismograph Array

Jeffrey J. McGuire; Deborah K. Smith; John A. Collins

*S11A. Lessons Learned From the 2010 Maule Earthquake I Posters*

8:00 AM - 12:20 PM; Halls A-C

- S11A-2195. Post-seismic deformation following the 1960 M9.5 Chile earthquake: Interpretations by viscoelastic processes

Min Ding; Jian Lin

*OS13A. Doing Fieldwork on the Deep Seafloor II Posters*

1:40 PM - 6:00 PM; Halls A-C

- OS13A-1510. Rolling Deck to Repository (R2R): Research Cruise Event Logger

Cynthia L. Chandler; Andrew R. Maffei; Laura Stolp; David L. Dubois

*OS13D. The Need for Sustained Ocean Observations: Progress, Prospects, and the State of the Art I Posters*

1:40 PM - 6:00 PM; Halls A-C

- OS13D-1558. Optical Telemetry Improves Persistence and Data Access at Woolsey Mound Observatory, Mississippi Canyon block 118, Gulf of Mexico

Norman Farr; Kenneth Sleeper; Richard Camilli; Clifford Pontbriand; Jonathan Ware

**TUESDAY, DECEMBER 06, 2011**

*PP21A. Isotopes in Precipitation: Paleoclimate Archives, Modern Observations, and Modeling I Posters*

8:00 AM - 12:20 PM; Halls A-C

- PP21A-1780. Hydrologic and temperature variability at Lake Titicaca over the past 50,000 years

Kyrstin Fornace; Timothy M. Shanahan; Sean Sylva; Justin Ossolinski; Paul A. Baker; Sherilyn C. Fritz; Konrad A. Hughen

*PP21B. Linking Intermediate Water Circulation to Abrupt Climate Change I Posters*

8:00 AM - 12:20 PM; Halls A-C

- PP21B-1791. Evaluating the Utility of Multiple Proxies (Mg/Ca, Li/Ca, Cd/Ca,  $\delta^{13}\text{C}$  and Nd isotopes) in Foraminiferal Shells: New calibrations from the Demerara Rise, western tropical Atlantic

Kuo-Fang Huang; Delia Oppo; William B. Curry; Jerzy Blusztajn

- PP21B-1797. Abrupt changes in the supply of Southern Ocean nutrients to the Atlantic across the last deglaciation

Katharine R. Hendry; Laura F. Robinson; Jerry F. McManus

*V21B. Magmatic Processes in the Lower Oceanic Crust II Posters*

8:00 AM - 12:20 PM; Halls A-C

- V21B-2487. Noble gases in the Oceanic Crust: Preliminary results from ODP Hole 1256D

Mark D. Kurz; Joshua M. Curtice

- V21B-2497. Evidence for melt focusing at the Southwest Indian Ridge based on olivine-hosted melt inclusions

Alison M. Shaw; Mark D. Behn

*C23A. Antarctic and Arctic Sea Ice Processes I Posters*

1:40 PM - 6:00 PM; Halls A-C

- C23A-0476. Estimating air-sea gas exchange in the seasonal sea ice zone

Brice Loose; Wade R. McGillis

*C23C. Land Ice-Ocean Interactions in Greenland and Antarctica II Posters*

1:40 PM - 6:00 PM; Halls A-C

- C23C-0502. Sea-ice behavior and biological productivity in the Amundsen Sea: New insight from West Antarctic Ice Sheet records

Alison S. Criscitiello; Sarah B. Das; Matthew Evans; Karen E. Frey; Ian R. Joughin; Brooke Medley; Howard Conway

*PP23A. Gulf of Mexico/Caribbean Sea Paleooceanography and Ocean/Continent/Atmosphere Linkages II Posters*

1:40 PM - 6:00 PM; Halls A-C

- PP23A-1821. Gulf Coast hurricane activity and climate variability during the last half of the Holocene

Philip Lane; Jeffrey P. Donnelly

*T23C. Mechanics of the Lithospheric Deformation During the Earthquake Cycle I Posters*

1:40 PM - 6:00 PM; Halls A-C

- T23C-2402. Effects of subducted seamount on interplate coupling and earthquakes

Hongfeng Yang; Yajing Liu; Jian Lin

*T23D. Recent Advances and Concepts in Plate Tectonics and Seafloor Spreading Processes I Posters*

1:40 PM - 6:00 PM; Halls A-C

- T23D-2455. The Depth Dependence of Earthquake T-phases at an Ocean Acoustic Observatory

Ralph A. Stephen; Tom Bolmer; Peter F. Worcester; Matthew A. Dzieciuch; James A. Mercer; Bruce M. Howe

**WEDNESDAY, DECEMBER 07, 2011**

*EP31D. Human Societies and Landscape Evolution Since the Last Glacial Maximum I Posters*

8:00 AM - 12:20 PM; Halls A-C

- EP31D-0855. Pleistocene-Recent Drainage Evolution in the Western Himalayan Foreland Basin

Peter D. Clift; Liviu Giosan; Mark Macklin; Andrew Carter; Ali R. Tabrez

*IN31A. Real Use of Open Standards and Technologies I Posters*

8:00 AM - 12:20 PM; Halls A-C

- IN31A-1435. Open Standards and Technologies in the S2S Framework

Andrew R. Maffei; Eric A. Rozell; Patrick West; Stephan Zednik; Peter A. Fox

*IN31B. Semantic, Linked Data, and Drupal-Based Solutions for Science I Posters*

8:00 AM - 12:20 PM; Halls A-C

- IN31B-1436. Legacy2Drupal: Conversion of an existing relational oceanographic database to a Drupal 7 CMS

Tobias T. Work; Andrew R. Maffei; Cynthia L. Chandler; Robert C. Groman

*OS31A. Ocean Sciences General Contributions II: Chemical and Biological Oceanography Posters*

8:00 AM - 12:20 PM; Halls A-C

- OS31A-1602. The Biological and Chemical Oceanography Data Management Office

Molly D. Allison; Cynthia L. Chandler; Robert C. Groman; Peter H. Wiebe; David M. Glover; Stephen R. Gegg

*T31A. Evolution of the Oceanic Lithosphere I Posters*

8:00 AM - 12:20 PM; Halls A-C

- T31A-2324. 3D Geodynamic Models of the Stress Field at Oblique-Spreading Mid-Ocean Ridges

Julia Howell; Mark D. Behn; Scott M. White

*U33A. Coupled Processes in the Arctic System: Feedbacks, Amplification, and Impacts on Midlatitudes II Posters*

1:40 PM - 6:00 PM; Halls A-C

- U33A-0027. The role of the Beaufort Gyre in the Arctic climate system changes

Andrey Y. Proshutinsky; Mary-Louise E. Timmermans; Richard A. Krishfield; John M. Toole

*B33A. Assessing the Role of Hydrologic Variability in Stream Nutrient Processing and Transport I Posters*

1:40 PM - 6:00 PM; Halls A-C

- B33A-0424. Seasonally-evolving hydrological controls on dissolved iron exported in Greenland glacial meltwater streams

Maya Bhatia; Elizabeth B. Kujawinski; Sarah B. Das; Rachel Allen; Crystal Breier; Meagan E. Gonnee; Matthew A. Charette

**THURSDAY, DECEMBER 08, 2011**

*EP41B. Innovative Isotope Methods for Characterization of Earth Surface Processes I Posters*

8:00 AM - 12:20 PM; Halls A-C

- EP41B-0616. Controls on Uranium Series Isotope Variability within Chilean Surface Waters

John Swartz; Laura F. Robinson

*PP41C. Pleistocene-Holocene Climate Variability in the North Pacific Realm I Posters*

8:00 AM - 12:20 PM; Halls A-C

- PP41C-1788. Paleo-iron supply to the Western Subarctic Pacific since the last glaciation

Phoebe J. Lam; Laura F. Robinson; Jerzy Blusztajn; Jerry F. McManus; Mea S. Cook; Lloyd D. Keigwin

*DI41A. Seismic Anisotropy from the Core-Mantle Boundary to the Lithosphere I Posters*

8:00 AM - 12:20 PM; Halls A-C

- DI41A-2067. Evidence for Trench-normal Flow Beneath the Western Hellenic Slab from Shear-wave Splitting Analysis

Jean-Arthur L. Olive; Stephane Rondenay; Frederick D. Pearce

*NG43A. Lagrangian Coherent Structures and Other Dynamical System Techniques in Geophysical Flows II Posters*

1:40 PM - 6:00 PM; Halls A-C

- NG43A-1468. Near-Surface Transport Pathways in the North Atlantic Ocean: Looking for Throughput from the Subtropical to the Subpolar Gyre

Irina I. Rypina; Lawrence J. Pratt; M Susan Lozier

**FRIDAY, DECEMBER 09, 2011**

*B51D. Ecological, Hydrological, and Biogeochemical Applications of Remotely Sensed Land Surface Temperature II Posters*

8:00 AM - 12:20 PM; Halls A-C

- EP51B-0851. Coral growth rate and subsidence controls on the variability of coral reef profile forms

Michael Toomey; Andrew D. Ashton; Taylor Perron

*GC51B. Carbon Sequestration VI Posters*

8:00 AM - 12:20 PM; Halls A-C

- GC51B-0965. Carbonation of an active serpentinization system

Frieder Klein; Thomas M. McCollom

*NH51B. Observations, Modeling, and Economics of Extreme Events I Posters*

8:00 AM - 12:20 PM; Halls A-C

- NH51B-1701. Changes in mid-late Holocene hurricane activity influence coastal dynamics in northeastern Gulf of Mexico – A case study in the Choctawhatchee Bay, Destin FL.

Pradeep N. Ranasinghage; Jeffrey P. Donnelly; Robert L. Evans; Andrew D. Ashton; Kelsey Condon; Richard Sullivan; Aaron Beltzer

*PP51C. Reconstruction and Modeling of Global Climate Evolution of the Last 21,000 Years I Posters*

*8:00 AM - 12:20 PM; Halls A-C*

- PP51C-1857. A New High-Resolution Record of Benthic and Planktonic Foraminiferal Stable Isotopes from the Bermuda Rise

William B. Curry; Lloyd D. Keigwin

*V53D. Rates of Preeruptive and Syneruptive Processes in Submarine Volcanic Systems II Posters*

*1:40 PM - 6:00 PM; Halls A-C*

- V53D-2656. Duration and flow rates of the 2005-06 East Pacific Rise eruption: constraints from syn-emplacement degassing and vesiculation

Samuel A. Soule; Dorene S. Nakata; Allison T. Fundis; Michael R. Perfit