

Monday, December 13, 2010

Time	Session Info
8:00 AM-10:00 AM, 3011 (Moscone West), C11B. Glacial Hydrology: Causes and Effects I	
8:45-9:00 AM	C11B-04. Seasonal evolution of water source contributions to the subglacial outflow from a land-terminating Greenland ice sheet outlet glacier: Insight from a new isotope mixing model (<i>Invited</i>) <u>M.P. Bhatia</u> ; S.B. Das; E.B. Kujawinski; P.B. Henderson; A. Burke; M.A. Charette
8:00 AM-10:00 AM, 3007 (Moscone West), OS11D. Ocean Exploration I	
8:45-9:00 AM	OS11D-04. Hydrothermal Vents and Organic Falls in the Heart of the Coral Triangle: Chemosynthetic Communities Discovered via Telepresence in the Sangihe-Talaud Region, Northern Sulawesi, Indonesia <u>T.M. Shank</u> ; S. Herrera; E. Bors; C. Munro; E. Sibert; N. Nganro; S. Makarim; S. Wirasantosa; V. Tunnicliffe; E.T. Baker; D.A. Butterfield; J.F. Holden; S.R. Hammond
9:15-9:30 AM	OS11D-06. Hydrothermal Exploration at the Chile Triple Junction – ABE's last adventure? <u>C.R. German</u> ; T.M. Shank; M.D. Lilley; J.E. Lupton; D.K. Blackman; K.M. Brown; T. Baumberger; G. Früh-Green; R. Greene; M.A. Saito; S. Sylva; K. Nakamura; J. Stanway; D.R. Yoerger; L.A. Levin; A.R. Thurber; J. Sellanes; M. Mella; J. Muñoz; J.L. Diaz-Naveas
8:00 AM-10:00 AM, 2004 (Moscone West), P11D. Planetary Environments and Life: What Do We Know? How Can We Learn From Analogs? I	
8:45-9:00 AM	P11D-04. Searching for Environments That Could Support Life: Lessons Learned From Six Deep Sea Cruises with the Sentry and Nereus Autonomous Underwater Vehicles <u>D.R. Yoerger</u> ; J.C. Kinsey; M. Jakuba; R. Camilli; C.R. German; T.M. Shank; A. Bowen; K. Nakamura
10:20 AM-12:20 PM, 3005 (Moscone West), GC12B. Decadal-Scale Arctic Climate Variability: Observations and Modeling I	
12:08-12:20 PM	GC12B-09. Decadal variability of Arctic climate: cyclonic and anticyclonic circulation regimes <u>A.Y. Proshutinsky</u> ; M.A. Johnson
10:20 AM-12:20 PM, 3007 (Moscone West), OS12B. Unique Applications of Multibeam Sonars: New Developments and New Applications I	
10:40-11:00 AM	OS12B-02. Near-bottom Multibeam Survey Capabilities in the US National Deep Submergence Facility (<i>Invited</i>) <u>D.R. Yoerger</u> ; S.J. McCue

10:20 AM-12:20 PM, 2018 (Moscone West), T12A. Investigation of the Earth's Interior Using Geophysical and Laboratory Measurements I	
11:05-11:20 AM	T12A-04. Sharp Arc-ward Grain Size Increase in the Forearc Mantle Wedge and Its Implications for Subduction Zone Dynamics <u>I. Wada</u> ; M.D. Behn; J. He
10:20 AM-12:20 PM, 2020 (Moscone West), V12A. Building the Volcanic Oceanic Crust II	
10:53-11:08 AM	V12A-03. Length Scales of Volcanic Deposition: A Comparison of the Fast-spreading East Pacific Rise and Slow-spreading Mid-Atlantic Ridge (<i>Invited</i>) <u>S. Soule</u> ; J. Escartin; D.J. Fornari; D.S. Nakata; A.T. Fundis
11:08-11:22 AM	V12A-04. Modes of Accretion at Slower Spreading Ocean Ridges <u>H.J. Dick</u>
1:40 PM-3:40 PM, 3009 (Moscone West), OS13G. Integrated Studies at Oceanic Spreading Centers: Linking Spreading Center Processes Across Disciplinary Boundaries I	
1:55-2:10 PM	OS13G-02. Evidence From Three-Dimensional Seismic Reflection Images for Crustal Magma Bodies off the East Pacific Rise <u>J. Canales</u> ; H.D. Carton; M. Xu; M.R. Nedimovic; S.M. Carbotte; J.C. Mutter
2:40-2:55 PM	OS13G-05. Hydrothermal Plume Particulate Organic Material as a Transport Vector for a Diversity of Trace Minerals <u>J.A. Breier</u> ; M.a. Marcus; S. Fakra; C.R. German; B.M. Toner
3:10-3:25 PM	OS13G-07. Larval abundance and dispersal at deep-sea hydrothermal vents in the southern Mariana Trough <u>S.E. Beaulieu</u> ; H. Watanabe; S.W. Mills; F. Pradillon; S. Kojima; L.S. Mullineaux
4:00 PM-6:00 PM, 3009 (Moscone West), OS14A. Integrated Studies at Oceanic Spreading Centers: Linking Spreading Center Processes Across Disciplinary Boundaries II	
4:45-5:00 PM	OS14A-04. Evidence for deep sea hydrothermal fluid-mineral equilibrium from multiple S isotopes <u>J.M. McDermott</u> ; S. Ono; M.K. Tivey; J. Seewald
5:00-5:15 PM	OS14A-05. Characterization of the in situ magnetic and lithologic architecture of Hess Deep using near-bottom vector magnetic data C.J. MacLeod; <u>M. Tominaga</u> ; M. Tivey; A. Morris; D.J. Shillington

Tuesday, December 14, 2010

Time	Session Info
8:00 AM-10:00 AM, 2002 (Moscone West), B21F. Cryospheric Biogeochemistry II	

8:30-8:45 AM	B21F-03. Seasonal hydrological cycle control on age, abundance and lability of carbon exported from the Greenland ice sheet <u>M.P. Bhatia</u> ; S.B. Das; M.A. Charette; L. Xu; E.B. Kujawinski
8:00 AM-10:00 AM, 3001 (Moscone West), GC21E. The Biological Pump and Carbon Cycling in the Global and Arctic Ocean I	
8:05-8:19 AM	GC21E-01. Controls on and variability in particle export and flux attenuation in the ocean's twilight zone (<i>Invited</i>) <u>K. Buesseler</u> ; P.W. Boyd
8:33-8:47 AM	GC21E-03. Uptake of CO₂ in the Pelagic Ocean by the Biological Pump; the Global Flux and the Regional Variability <u>S. Honjo</u> ; R.H. Francois; S.J. Manganini; T.I. Eglinton
8:47-9:01 AM	GC21E-04. Global Biogeochemical Fluxes Program for the Ocean Observatories Initiative: A Proposal. (<i>Invited</i>) <u>K.M. Ulmer</u> ; C. Taylor
8:00 AM-10:00 AM, 2016 (Moscone West), T21G. Interaction Between Magmatic and Tectonic Processes in Continental and Incipient Oceanic Rifts I	
9:25-9:40 AM	T21G-06. Widespread, Off-axis Magmatism at a Young Oceanic Rift, the Sedimented Guaymas Basin Spreading Center <u>S. Soule</u> ; D. Lizarralde; J. Seewald; G. Proskurowski
8:00 AM-10:00 AM, 2018 (Moscone West), T21H. Melt Present Deformation in the Lithosphere I	
9:15-9:30 AM	T21H-06. Oceanic Core Complex Structure Controlled by the Depth Distribution of Magma Emplacement (<i>Invited</i>) <u>J.L. Olive</u> ; M.D. Behn; B.E. Tucholke
10:20 AM-12:20 PM, 3009 (Moscone West), OS22B. Lessons Learned From the Deepwater Horizon Oil Spill: Biological and Chemical Oceanography II	
11:20-11:35 AM	OS22B-05. Temporal and Spatial Variability in Composition of Polar Components of Oil and Dispersants During and After the Deepwater Horizon Oil Spill <u>E.B. Kujawinski</u> ; K. Longnecker; M.C. Kido Soule; A.K. Boysen
10:20 AM-12:20 PM, 3022 (Moscone West), MR22A. Stability, Elasticity, and Rheology of Hydrous Phases: Geodynamical Implications II	
12:05-12:20 PM	MR22A-08. Thermo-Petrologic Structure of Subduction Zones and Its Implications for Fluid Availability at Depth (<i>Invited</i>) <u>I. Wada</u> ; K. Wang; M.D. Behn; A.M. Shaw
1:40 PM-3:40 PM, 310 (Moscone South), EP23C. Quantifying Present and Ancient Rates of Earth Surface Processes I	
2:40-2:55 PM	EP23C-05. Extraterrestrial Matter Chronometry of Sediments <u>B. Peucker-Ehrenbrink</u> ; C.A. Waters; P.F. Hoffman; M.D. Kurz

1:40 PM-3:40 PM, 3001 (Moscone West), GC23G. Carbon Dioxide Sequestration via Mineral Carbonation: Insights From Field Observations, Experiments, and Modeling I	
1:40-1:55 PM	GC23G-01. On Serpentinization and Mineral Carbonation of Serpentinite (<i>Invited</i>) <u>F. Klein</u> ; C.J. Garrido
1:40 PM-3:40 PM, 2022 (Moscone West), V23E. Volatiles in Magmas: Breath of the Deep Earth I	
2:55-3:15 PM	V23E-06. Decoupling of H₂O, Oxygen Fugacity and Incompatible Elements in Olivine-Hosted Melt Inclusions By Diffusive Re-Equilibration (<i>Invited</i>) <u>G.A. Gaetani</u> ; J.A. O'Leary; N. Shimizu; C.E. Bucholz
4:00 PM-6:00 PM, 102 (Moscone South), ED24A. National and International Programs in Geosciences and Space Sciences Education II	
4:00-4:15 PM	ED24A-01. NOAA Education Program: Review and Critique, and Relevance to Education Programs of Other Federal Agencies. <u>J.W. Farrington</u> ; M. Feder
4:00 PM-6:00 PM, 3009 (Moscone West), OS24A. Integrated Studies at Oceanic Spreading Centers: Linking Spreading Center Processes Across Disciplinary Boundaries IV	
5:45-6:00 PM	OS24A-08. Transfer and partitioning of energy and mass through seafloor hydrothermal systems: comparative studies at the Ridge2000 Integrated Study Sites (ISS) (<i>Invited</i>) <u>M.K. Tivey</u>
4:00 PM-6:00 PM, 2005 (Moscone West), PP24B. Molecules Modern to Ancient II	
5:00-5:15 PM	PP24B-05. Temporal Insights on Biomarker-Based Climate Records (<i>Invited</i>) <u>N. Drenzek</u> ; R.H. Stanley; G.M. Santos; J.R. Southon; E.R. Druffel; D. Montlucon; K.A. Huguen; T.I. Eglinton

Wednesday, December 15, 2010

Time	Session Info
10:20 AM-12:20 PM, 3011 (Moscone West), C32A. Innovations in Observing and Modeling Components of the Cryosphere III	
10:35-10:50 AM	C32A-02. Glacier melting in a stratified ocean: Observations from outlet glaciers in Greenland (<i>Invited</i>) <u>F. Straneo</u> ; D.A. Sutherland; G.S. Hamilton; C. Cenedese; L.A. Stearns
10:20 AM-12:20 PM, 3007 (Moscone West), OS32A. "Organic Geotraces": Toward an Understanding of the Distribution of Organic Matter in the Oceans I	
10:50-11:05 AM	OS32A-03. A Global Radiocarbon Mixing Line For Marine Dissolved Organic Carbon (DOC) <u>S.R. Beaupre</u> ; E.R. Druffel

10:20 AM-12:20 PM, 3009 (Moscone West), OS32B. Eastern Boundary Ocean Margin Carbon Cycles II	
11:20-11:35 AM	OS32B-05. Speciation and export of particulate iron from the Northwest African continental margin into the water column <u>P.J. Lam</u> ; D. Ohnemus; M.a. Marcus; S. Fakra
1:40 PM-3:40 PM, 2002 (Moscone West), B33K. Phosphorus: From Geochemistry to Genomes to Global Sustainability II	
2:25-2:40 PM	B33K-04. Calculus of P-Acquisition versus P-Sparing by Plankton in the Oligotrophic Ocean (<i>Invited</i>) <u>B. Van Mooy</u> ; S.T. Dyhrman; M.W. Lomas
1:40 PM-3:40 PM, 3007 (Moscone West), OS33F. Deep-Sea Hydrothermal Systems: New Knowledge From New Discoveries and New Technology II	
2:25-2:40 PM	OS33F-04. Diverse styles of submarine venting on the ultra-slow spreading Mid-Cayman Rise (<i>Invited</i>) <u>C.R. German</u> ; A. Bowen; M.L. Coleman; D.L. Honig; J.A. Huber; M. Jakuba; J.C. Kinsey; M.D. Kurz; S. Leroy; J. McDermott; B.F. Mercier De Lepinay; K. Nakamura; J. Seewald; J. Smith; S. Sylva; C.L. Van Dover; L.L. Whitcomb; D.R. Yoerger
1:40 PM-3:40 PM, 3009 (Moscone West), OS33G. Estuarine Sediment Dynamics and Fate of Particles, Contaminants, and Carbon at the Land-Ocean Interface II	
3:10-3:25 PM	OS33G-07. A numerical investigation of the dynamics of hyperpycnal river plume on a sloping continental shelf <u>S. Chen</u> ; W.R. Geyer; T. Hsu
4:00 PM-6:00 PM, 2002 (Moscone West), B34A. Geochemical Signals of Early Diagenesis I	
4:00-4:15 PM	B34A-01. Sources and Biogeochemical Cycling of Iron Isotopes in Coastal Environments (<i>Invited</i>) <u>O. Rouxel</u>
4:00 PM-6:00 PM, 3007 (Moscone West), OS34A. Deep-Sea Hydrothermal Systems: New Knowledge From New Discoveries and New Technology III	
4:15-4:30 PM	OS34A-02. Investigating microbial colonization in actively forming hydrothermal deposits using thermocouple arrays <u>M.K. Tivey</u> ; A.L. Reysenbach; M. Hirsch; J. Steinberg; G.E. Flores
5:45-6:00 PM	OS34A-08. Microearthquakes at the active Trans-Atlantic Geotraverse (TAG) hydrothermal mound, Mid-Atlantic Ridge, 26°08'N <u>C. Pontbriand</u> ; R.A. Reves-Sohn
4:00 PM-6:00 PM, 3009 (Moscone West), OS34B. Tidal Flats: Hydrodynamics and Sedimentary Processes II	
5:00-5:15 PM	OS34B-05. Analysis of Truncation, Stratification, and Nonlinear Tidal Processes as Sources of Velocity Asymmetry on Mesotidal Tidal Flats <u>N.J. Nidzieko</u> ; D.K. Ralston; W.R. Geyer

5:15-5:30 PM	OS34B-06. Processes affecting the stratification-induced potential energy anomaly on the Skagit Bay tidal flats <u>V. Pavel</u> ; B. Raubenheimer; S. Elgar; D.K. Ralston
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Thursday, December 16, 2010

Time	Session Info
8:00 AM-10:00 AM, 3007 (Moscone West), OS41D. Lessons Learned From the Deepwater Horizon Oil Spill: Physical Oceanography II	
9:00-9:15 AM	OS41D-05. Quantifying the flow rate of the Deepwater Horizon Macondo Well oil spill. <u>R. Camilli</u> ; A. Bowen; D.R. Yoerger; L.L. Whitcomb; A.H. Techet; C.M. Reddy; S. Sylva; J. Seewald; D. Di Iorio
10:20 AM-12:20 PM, 104 (Moscone South), U42A. Frontiers in Scientific Ocean Drilling: Recent Discoveries and Future Opportunities I	
11:35-11:50 AM	U42A-06. The leading edge of basement logging science: The detailed in situ volcanic architecture, crustal construction processes, vacancy for water, minerals, and microbes, and beyond. <u>M. Tominaga</u>
10:20 AM-12:20 PM, 3009 (Moscone West), OS42B. Tsunami and Storm Deposits Onshore and Offshore: Processes and Products II	
12:05-12:20 PM	OS42B-08. A Microfossil-Based Approach to Estimate Hurricane Intensity <u>A.D. Hawkes</u> ; J.P. Donnelly; P. Lane
10:20 AM-12:20 PM, 2005 (Moscone West), PP42A. Advances in the Use of Biomarkers II	
10:50-11:05 AM	PP42A-03. Links between climate and the transmission times of biomarker signals to aquatic sediments: Implications for interpretation of the sedimentary record (<i>Invited</i>) <u>T.I. Eglinton</u>
4:00 PM-6:00 PM, 2005 (Moscone West), PP44A. Interglacial Climate Variability III	
4:00-4:15 PM	PP44A-01. Fluctuating sea levels during the Last Interglacial: termination, oscillation, and glacial inception. <u>W.G. Thompson</u>

Friday, December 17, 2010

Time	Session Info
8:00 AM-10:00 AM, 3010 (Moscone West), OS51F. Turbulence, Mixing, and Multiscale Interactions in Rivers and Estuaries I	
8:00-8:15 AM	OS51F-01. Hydraulic transitions, shear instability and mixing (<i>Invited</i>) <u>W.R. Geyer</u> ; M.E. Scully

10:20 AM-12:20 PM, 309 (Moscone South), IN52A. Collaborative Frameworks in Earth and Space Sciences I	
10:45-11:05 AM	IN52A-02. Uses of the Drupal CMS Collaborative Framework in the Woods Hole Scientific Community (<i>Invited</i>) <u>A.R. Maffei</u> ; C.L. Chandler; T.T. Work; D. Shorthouse; J. Furfey; H. Miller
10:20 AM-12:20 PM, 2007 (Moscone West), S52B. Earthquake Source Processes: What Have We Learned From Recent Large Earthquakes? II	
10:20-10:35 AM	S52B-01. Stress interaction of strike-slip and thrust faults associated with the 2010 M=7.0 Haiti earthquake <u>J. Lin</u> ; R.S. Stein; V. Sevilgen; S. Toda
10:20 AM-12:20 PM, 2022 (Moscone West), V52A. 175 Years of Geological Research in the Galapagos III	
11:20-11:35 AM	V52A-05. Noble gas tracers of mantle processes beneath the Galápagos archipelago (<i>Invited</i>) <u>M.D. Kurz</u> ; K.S. Harpp; D. Geist; D.J. Fornari; J. Curtice; D.E. Lott; W.J. Jenkins
10:20 AM-12:20 PM, 2018 (Moscone West), V52B. Chemical, Physical, and Petrographic Perspectives on Magmatic Differentiation III	
12:05-12:20 PM	V52B-07. Phase equilibrium constraints on the depth of crystallization beneath the rift zones of Iceland: An experimental study of the Borgarhraun lava <u>G.A. Gaetani</u> ; J. MacLennan
1:40 PM-3:40 PM, 3014 (Moscone West), H53G. Climate Forcing of Surface and Subsurface Hydrology and Biogeochemistry: Processes, Models, Management II	
2:10-2:25 PM	H53G-03. Submarine Groundwater Discharge of Trace Elements and Isotopes from Karst Systems (<i>Invited</i>) <u>M.A. Charette</u> ; P.B. Henderson; M.E. Gonnee; C. Breier; J. Murray; J.W. Jenson; S. Morales; J. Herrera-Silveira
4:00 PM-6:00 PM, 3002 (Moscone West), A54B. Ocean-Cloud-Land-Atmosphere Interactions in the Southeastern Pacific II	
4:15-4:30 PM	A54B-02. Eddies in the Southeast Pacific and their influence on the upper ocean (<i>Invited</i>) <u>F. Straneo</u> ; C.F. Moffat; R.A. Weller; J.T. Farrar
4:00 PM-6:00 PM, 3005 (Moscone West), GC54B. Regional Patterns of Global Warming: Models, Mechanisms, and Observations III	
4:15-4:30 PM	GC54B-02. Tropical Pacific Ocean Mean Circulation: A Model-Data Intercomparison and Implications for Climate Change Projections (<i>Invited</i>) <u>K.B. Karnauskas</u> ; G.C. Johnson; R.G. Murtugudde
4:00 PM-6:00 PM, 3009 (Moscone West), OS54B. Water Masses, Circulation, and Variability of the North Atlantic Ocean From Observations and Models II	

5:15-5:30 PM

OS54B-06. A Simple Model of the Nordic Sea Circulation and Outflows L.J. Pratt; J. Yang