AGU Conference Schedule for Monday 12/15/2014

Presentation	Presenter Name	Start Pacific Time	End Pacific Time	Session	Session Title	Primary Section / Focus Group	Channel
The Impacts of Rock Composition and Properties on the Ability to Stimulate Production of Ultra-Low Permeability Oil and Gas Reservoirs Through Hydraulic Fracturing	Mark Zoback	1:40:00 PM	2:00:00 PM	H13Q	Shale Science: Coupled Processes in Hydraulic Fracturing and CO_2 Sequestration II	Hydrology	AGU 1
Influence of Rock Fabric on Hydraulic Fracture Propagation: Laboratory Study	Sergei Stanchits	2:00:00 PM	2:20:00 PM	H13Q	Shale Science: Coupled Processes in Hydraulic Fracturing and CO_2 Sequestration II	Hydrology	AGU 1
Effect of Shear Slip on Fault Permeability in Shale Reservoir Rocks	Julia Reece	2:20:00 PM	2:35:00 PM	H13Q	Shale Science: Coupled Processes in Hydraulic Fracturing and CO_2 Sequestration II	Hydrology	AGU 1
Hydraulic Aperture Reduction of Shale Fractures Due to Mechanical Stressing, with Characterization of Physical Fracture Evolution Using Comuted Tomography	Dustin Crandall	2:35:00 PM	2:50:00 PM	H13Q	Shale Science: Coupled Processes in Hydraulic Fracturing and CO_2 Sequestration II	Hydrology	AGU 1
A Study on the Effect of Fracture Aperture Variability on Advective Transport in aFractured Shale using Discrete Fracture Network Modeling	Nataliia Makedonska	2:50:00 PM	3:05:00 PM	H13Q	Shale Science: Coupled Processes in Hydraulic Fracturing and CO_2 Sequestration II	Hydrology	AGU 1
Experimental Characterization and Modeling of the Fracturing Behavior of Marcellus Shale	Congrui Jin	3:05:00 PM	3:20:00 PM	H13Q	Shale Science: Coupled Processes in Hydraulic Fracturing and CO_2 Sequestration II	Hydrology	AGU 1
The U.S. Shale Oil and Gas Resource – a Multi-Scale Analysis of Productivity	Francis O'sullivan	3:20:00 PM	3:35:00 PM	H13Q	Shale Science: Coupled Processes in Hydraulic Fracturing and CO_2 Sequestration II	Hydrology	AGU 1
Paper 5991: How Much Gas, Condensate, and Oil Will be Produced from Major Shale Plays in the U.S., and Why?	Tadeusz Patzek	4:00:00 PM	4:20:00 PM	H14D	Shale Science: Coupled Processes in Hydraulic Fracturing and CO_2 Sequestration III	Hydrology	AGU 1
Multi-Scale Multi-Physics Modeling of Matrix Transport Properties in Fractured Shale Reservoirs	Ayaz Mehmani	4:20:00 PM	4:35:00 PM	H14D	Shale Science: Coupled Processes in Hydraulic Fracturing and CO_2 Sequestration III	Hydrology	AGU 1

Investigating the Potential for Large-Scale Carbon Dioxide Sequestration in Shale Gas Formations	Ryan Edwards	4:35:00 PM	4:50:00 PM	H14D	Shale Science: Coupled Processes in Hydraulic Fracturing and CO_2 Sequestration III	Hydrology	AGU 1
No Seal, No Deal: the Importance of Understanding Caprock Integrity During Long-Term CO_2 Storage	Suzanne Hangx	4:50:00 PM	5:10:00 PM	H14D	Shale Science: Coupled Processes in Hydraulic Fracturing and CO_2 Sequestration III	Hydrology	AGU 1
Geochemical Processes in the Interaction Between a Marly Shale and a CO_2-Rich Sulfate Solution Under Supercritical CO_2 Conditions	Gabriela Davila	5:10:00 PM	5:25:00 PM	H14D	Shale Science: Coupled Processes in Hydraulic Fracturing and CO_2 Sequestration III	Hydrology	AGU 1
How reactive fluids alter fracture walls and affect shale-matrix accessibility	Jeffrey Fitts	5:25:00 PM	5:40:00 PM	H14D	Shale Science: Coupled Processes in Hydraulic Fracturing and CO_2 Sequestration III	Hydrology	AGU 1
Microbially Induced Calcite Precipitation (MICP) - A Technology for Managing Flow and Transport in Porous and Fractured Media	Adrienne Phillips	5:40:00 PM	5:55:00 PM	H14D	Shale Science: Coupled Processes in Hydraulic Fracturing and CO_2 Sequestration III	Hydrology	AGU 1
High Pressure Hydrogen from First Principles	Miguel Morales	8:00:00 AM	8:15:00 AM	MR11C	Planetary Materials I Icy and Gas Giants	Mineral and Rock Physics	AGU 2
Hydrogen-Helium Solubility in Gas Giant Interiors	Lars Stixrude	8:15:00 AM	8:30:00 AM	MR11C	Planetary Materials I Icy and Gas Giants	Mineral and Rock Physics	AGU 2
Using Jupiter's Volatile Inventory to Trace the History Of Ices During Planet Formation	Fred Ciesla	8:30:00 AM	8:45:00 AM	MR11C	Planetary Materials I Icy and Gas Giants	Mineral and Rock Physics	AGU 2
Potassium-Rich Ices at High Pressures and Temperatures	Mark Frank	8:45:00 AM	9:00:00 AM	MR11C	Planetary Materials I Icy and Gas Giants	Mineral and Rock Physics	AGU 2
Thermal Conductivity Measurements of H2O-Methanol Mixtures at High Pressure Using Time Domain Thermoreflectance	Wen-Pin Hsieh	9:00:00 AM	9:15:00 AM	MR11C	Planetary Materials I Icy and Gas Giants	Mineral and Rock Physics	AGU 2
P - ρ - T data for H_2O up to 260 GPa under laser-driven shock loading	Tomoaki Kimura	9:15:00 AM	9:30:00 AM	MR11C	Planetary Materials I Icy and Gas Giants	Mineral and Rock Physics	AGU 2
Superionic water-ammonia mixtures	Mandy Bethkenhagen	9:30:00 AM	9:45:00 AM	MR11C	Planetary Materials I Icy and Gas Giants	Mineral and Rock Physics	AGU 2
Exotic behavior of matter in the deep interiors of exoplanets	Gilbert Collins	9:45:00 AM	10:00:00 AM	MR11C	Planetary Materials I Icy and Gas Giants	Mineral and Rock Physics	AGU 2

Multiple Experimental Efforts to Understand the Structure and Dynamics of Earth's Core	Yingwei Fei	10:20:00 AM	10:35:00 AM	MR12A	"Iron Workers" United: Integrating the Elastic, Thermal, and Transport Properties of Earth's Core I	Mineral and Rock Physics	AGU 2
Intrinsic Aniostropic Anelasticity of Hcp Iron Due to Light Element Solute Atoms	Simon Redfern	10:35:00 AM	10:50:00 AM	MR12A	"Iron Workers" United: Integrating the Elastic, Thermal, and Transport Properties of Earth's Core I	Mineral and Rock Physics	AGU 2
Sound Velocity and Density of Hcp-Fe Under Earth's Core Conditions	Tatsuya Sakamaki	10:50:00 AM	11:05:00 AM	MR12A	"Iron Workers" United: Integrating the Elastic, Thermal, and Transport Properties of Earth's Core I	Mineral and Rock Physics	AGU 2
Sound velocities and melting of Fe-Ni-Si system at high pressures under shock loading	Youjun Zhang	11:05:00 AM	11:20:00 AM	MR12A	"Iron Workers" United: Integrating the Elastic, Thermal, and Transport Properties of Earth's Core I	Mineral and Rock Physics	AGU 2
Sound velocity measurements of liquid Fe–light-element alloys under high pressure based on inelastic X-ray scattering measurements	Yoichi Nakajima	11:20:00 AM	11:35:00 AM	MR12A	"Iron Workers" United: Integrating the Elastic, Thermal, and Transport Properties of Earth's Core I	Mineral and Rock Physics	AGU 2
Sound velocity and density of liquid Fe-Ni-Si under pressure: Application to the composition of planetary molten core	Hidenori Terasaki	11:35:00 AM	11:50:00 AM	MR12A	"Iron Workers" United: Integrating the Elastic, Thermal, and Transport Properties of Earth's Core I	Mineral and Rock Physics	AGU 2
Liquid iron alloys at outer core conditions by first-principles calculation	Koichiro Umemoto	11:50:00 AM	12:05:00 PM	MR12A	"Iron Workers" United: Integrating the Elastic, Thermal, and Transport Properties of Earth's Core I	Mineral and Rock Physics	AGU 2
Thermal evolution of the core with a high thermal conductivity	Stephane Labrosse	12:05:00 PM	12:20:00 PM	MR12A	"Iron Workers" United: Integrating the Elastic, Thermal, and Transport Properties of Earth's Core I	Mineral and Rock Physics	AGU 2
Public Policy Issues Associated with Tsunami Hazard Mitigation, Response and Recovery: Transferable Lessons from Recent Global Disasters	Laurie Johnson	8:00:00 AM	8:15:00 AM	NH11C	Advances in Tsunami Hazard Mitigation and Response I	Natural Hazards	AGU 4
Analysis of Tsunami Evacuation Issues Using Agent Based Modeling. A Case Study of the 2011 Tohoku Tsunami in Yuriage, Natori.	Erick Mas	8:15:00 AM	8:30:00 AM	NH11C	Advances in Tsunami Hazard Mitigation and Response I	Natural Hazards	AGU 4

Assessment of Nearshore Hazard due to Tsunami-Induced Currents	Patrick Lynett	8:30:00 AM	8:45:00 AM	NH11C	Advances in Tsunami Hazard Mitigation and Response I	Natural Hazards	AGU 4
The FASTER Approach: A New Tool for Calculating Real-Time Tsunami Flood Hazards	Rick Wilson	8:45:00 AM	9:00:00 AM	NH11C	Advances in Tsunami Hazard Mitigation and Response I	Natural Hazards	AGU 4
THE PUERTO RICO COMPONENT OF THE NATIONAL TSUNAMI HAZARD AND MITIGATION PROGRAM (PR-NTHMP)	Victor Huerfano Moreno	9:00:00 AM	9:15:00 AM	NH11C	Advances in Tsunami Hazard Mitigation and Response I	Natural Hazards	AGU 4
Earth Girl 2: Learning and Perfecting Tsunami Preparedness with a Casual Strategy Game	Isaac Kerlow	9:15:00 AM	9:30:00 AM	NH11C	Advances in Tsunami Hazard Mitigation and Response I	Natural Hazards	AGU 4
The First Real-Time Tsunami Animation	Nathan Becker	9:30:00 AM	9:45:00 AM	NH11C	Advances in Tsunami Hazard Mitigation and Response I	Natural Hazards	AGU 4
Evidence-Based Support for the Characteristics of Tsunami Warning Messages for Local, Regional and Distant Sources	Chris Gregg	9:45:00 AM	10:00:00 AM	NH11C	Advances in Tsunami Hazard Mitigation and Response I	Natural Hazards	AGU 4
Evaluation and Application of Probabilistic Tsunami Hazard Analysis in California	Hong Thio	10:20:00 AM	10:35:00 AM	NH12A	Advances in Tsunami Hazard Mitigation and Response II	Natural Hazards	AGU 4
Develop Probabilistic Tsunami Design Maps for ASCE 7	Yong Wei	10:35:00 AM	10:50:00 AM	NH12A	Advances in Tsunami Hazard Mitigation and Response II	Natural Hazards	AGU 4
Nationwide tsunami hazard assessment project in Japan	Kenji Hirata	10:50:00 AM	11:05:00 AM	NH12A	Advances in Tsunami Hazard Mitigation and Response II	Natural Hazards	AGU 4
Tsunami Inundation Mapping for the Upper East Coast of the United States	Babak Tehranirad	11:05:00 AM	11:20:00 AM	NH12A	Advances in Tsunami Hazard Mitigation and Response II	Natural Hazards	AGU 4
Assessment of Landslide-Tsunami Hazard for the Gulf of Mexico Using a Probabilistic Approach	Alyssa Pampell	11:20:00 AM	11:35:00 AM	NH12A	Advances in Tsunami Hazard Mitigation and Response II	Natural Hazards	AGU 4
Tsunamis generated by 3D deformable landslides in various scenarios: laboratory experiments and numerical modeling	Brian McFall	11:35:00 AM	11:50:00 AM	NH12A	Advances in Tsunami Hazard Mitigation and Response II	Natural Hazards	AGU 4

A New Proposal for Tsunami Hazard Map Explicitly Indicating Uncertainty of Tsunami Hazard Assessment	Yo Fukutani	11:50:00 AM	12:05:00 PM	NH12A	Advances in Tsunami Hazard Mitigation and Response II	Natural Hazards	AGU 4
Development of algorithms for tsunami detection by High Frequency Radar based on modeling tsunami case studies in the Mediterranean Sea	Stephan Grilli	12:05:00 PM	12:20:00 PM	NH12A	Advances in Tsunami Hazard Mitigation and Response II	Natural Hazards	AGU 4
Introductory Remarks		1:40:00 PM	1:41:00 PM	NH13B	Remote Sensing and New Technologies in Monitoring, Modeling, and Early Warning of Natural Hazards II	Natural Hazards	AGU 4
Application of remotely sensed data for landslide hazard assessment and forecasting	Dalia Bach Kirschbaum	1:41:00 PM	1:53:00 PM	NH13B	Remote Sensing and New Technologies in Monitoring, Modeling, and Early Warning of Natural Hazards II	Natural Hazards	AGU 4
Flash Floods and Storm-Triggered Debris Avalanches in the Appalachians and Possible Trends in a Future Warming Climate	Diandong Ren	1:53:00 PM	2:08:00 PM	NH13B	Remote Sensing and New Technologies in Monitoring, Modeling, and Early Warning of Natural Hazards II	Natural Hazards	AGU 4
Uncertainty in volcanic ash particle size distribution and implications for infrared remote sensing and airspace management	Luke Western	2:08:00 PM	2:20:00 PM	NH13B	Remote Sensing and New Technologies in Monitoring, Modeling, and Early Warning of Natural Hazards II	Natural Hazards	AGU 4
Build an Ensemble-based Remote-Sensing Driven Coupled Flash Flood and Landslide Warning System and Its Evaluation Across the United States	Ke Zhang	2:20:00 PM	2:35:00 PM	NH13B	Remote Sensing and New Technologies in Monitoring, Modeling, and Early Warning of Natural Hazards II	Natural Hazards	AGU 4
Virtual California: Earthquake Statistics, Surface Deformation Patterns, Surface Gravity Changes and InSAR Interferograms for Arbitrary Fault Geometries	Kasey Schultz	2:35:00 PM	2:47:00 PM	NH13B	Remote Sensing and New Technologies in Monitoring, Modeling, and Early Warning of Natural Hazards II	Natural Hazards	AGU 4
Monitoring Fast-Moving Landslide in the Three Gorges Area By Offset Tracking Method with High-Resolution SAR Data	Mingsheng Liao	2:47:00 PM	3:02:00 PM	NH13B	Remote Sensing and New Technologies in Monitoring, Modeling, and Early Warning of Natural Hazards II	Natural Hazards	AGU 4

A New Method for Detecting and Monitoring Atmospheric Natural Hazards with GPS RO	Riccardo Biondi	3:02:00 PM	3:14:00 PM	NH13B	Remote Sensing and New Technologies in Monitoring, Modeling, and Early Warning of Natural Hazards II	Natural Hazards	AGU 4
Joint Study of the Xishancun Landslide, Sichuan, Using Seismological and Electromagnetic Methods	Risheng Chu	3:14:00 PM	3:29:00 PM	NH13B	Remote Sensing and New Technologies in Monitoring, Modeling, and Early Warning of Natural Hazards II	Natural Hazards	AGU 4
Integration between Satellite and Ground-Based Data for the Improvement of Volcanic Ash Retrievals and Eruption Characterization	Stefano Corradini	3:29:00 PM	3:40:00 PM	NH13B	Remote Sensing and New Technologies in Monitoring, Modeling, and Early Warning of Natural Hazards II	Natural Hazards	AGU 4
Using SAR and GPS for Hazard Management and Response: Progress and Examples from the Advanced Rapid Imaging and Analysis (ARIA) Project	Susan Owen	4:00:00 PM	4:15:00 PM	NH14A	Satellite Remote Sensing and Management of Natural Disasters II	Natural Hazards	AGU 4
High Resolution Satellite Multi-Temporal Interferometry for Landslide and Subsidence Hazard Assessment: An Overview	Janusz Wasowski	4:15:00 PM	4:30:00 PM	NH14A	Satellite Remote Sensing and Management of Natural Disasters II	Natural Hazards	AGU 4
Mapping Drought Impacts on Agricultural Production in California's Central Valley	Forrest Melton	4:30:00 PM	4:45:00 PM	NH14A	Satellite Remote Sensing and Management of Natural Disasters II	Natural Hazards	AGU 4
HIGH RESOLUTION RAPID REVISITS INSAR MONITORING OF SURFACE DEFORMATION	Vern Singhroy	4:45:00 PM	5:00:00 PM	NH14A	Satellite Remote Sensing and Management of Natural Disasters II	Natural Hazards	AGU 4
Frost monitoring and forecasting using MODIS Land Surface Temperature data and a Numerical Weather Prediction model forecasts for Eastern Africa	Ashutosh Limaye	5:00:00 PM	5:15:00 PM	NH14A	Satellite Remote Sensing and Management of Natural Disasters II	Natural Hazards	AGU 4
E-DECIDER Disaster Response and Decision Support Cyberinfrastructure: Technology and Challenges	Margaret Glasscoe	5:15:00 PM	5:30:00 PM	NH14A	Satellite Remote Sensing and Management of Natural Disasters II	Natural Hazards	AGU 4
Aggregation Tool to Create *Curated Data* albums to Support Disaster Recovery and Response	Rahul Ramachandran	5:30:00 PM	5:45:00 PM	NH14A	Satellite Remote Sensing and Management of Natural Disasters II	Natural Hazards	AGU 4
Using Satellite Imagery from the International Charter to Support Disaster Response Management	Gerald Bawden	5:45:00 PM	6:00:00 PM	NH14A	Satellite Remote Sensing and Management of Natural Disasters II	Natural Hazards	AGU 4

Introductory Remarks		4:00:00 PM	4:10:00 PM	P14A	Shoemaker Lecture	Planetary Sciences	AGU 3
Searching for Earth-like planets in this solar system and beyond	Ellen Stofan	4:10:00 PM	5:00:00 PM	P14A	Shoemaker Lecture	Planetary Sciences	AGU 3
Presentation of Greeley and Whipple Awards		5:00:00 PM	5:15:00 PM	P14B	Whipple Lecture	Planetary Sciences	AGU 3
A Retrospective: Active Volatile-Driven Geologic Processes Across the Solar System—Lessons for Planetary Explorers	Laurence Soderblom	5:15:00 PM	6:00:00 PM	P14B	Whipple Lecture	Planetary Sciences	AGU 3
A review of millennial-scale climate variability over the past 1.5-million year from marine sediment cores in the North Atlantic	David Hodell	8:00:00 AM	8:15:00 AM	PP11E	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability I	Paleoceanography and Paleoclimatology	AGU 5
Ice-Ocean Interactions and Heinrich Events	Richard Alley	8:15:00 AM	8:30:00 AM	PP11E	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability I	Paleoceanography and Paleoclimatology	AGU 5
On the Mechanisms Producing Iceberg Discharges During Last Glacial Period, Including Heinrich Events	Jorge Alvarez-Solas	8:30:00 AM	8:45:00 AM	PP11E	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability I	Paleoceanography and Paleoclimatology	AGU 5
A Freshwater Starvation Mechanism for Dansgaard-Oeschger Cycles	Eric Wolff	8:45:00 AM	9:00:00 AM	PP11E	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability I	Paleoceanography and Paleoclimatology	AGU 5
Precise Interhemispheric Phasing of the Bipolar Seesaw during Abrupt Dansgaard-Oeschger Events	Christo Buizert	9:00:00 AM	9:15:00 AM	PP11E	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability I	Paleoceanography and Paleoclimatology	AGU 5
Atmosphere-ice-ocean Interactions and Dansgaard-Oeschger Cycles	Camille Li	9:15:00 AM	9:30:00 AM	PP11E	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability I	Paleoceanography and Paleoclimatology	AGU 5
The role of sea-ice in millennial-scale climate variability	Bernhard Naafs	9:30:00 AM	9:45:00 AM	PP11E	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability I	Paleoceanography and Paleoclimatology	AGU 5
Unstable Atlantic Meridional Overturning Circulation during Glacial Intervals and Millennial Variability: The Role of Mean Sea Ice Extent	Alexey Fedorov	9:45:00 AM	10:00:00 AM	PP11E	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability I	Paleoceanography and Paleoclimatology	AGU 5
Can dust drive abrupt climate change?	Amy Clement	10:20:00 AM	10:35:00 AM	PP12B	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability II	Paleoceanography and Paleoclimatology	AGU 5

The Role of the Tropics in Last Glacial Abrupt Climate Change from a West Antarctic Ice Core	Tyler Jones	10:35:00 AM	10:50:00 AM	PP12B	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability II	Paleoceanography and Paleoclimatology	AGU 5
A New εNd Record Covering Termination II	Emily Deaney	10:50:00 AM	11:05:00 AM	PP12B	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability II	Paleoceanography and Paleoclimatology	AGU 5
Antarctic contribution to meltwater pulse 1A from reduced Southern Ocean overturning	Christopher Fogwill	11:05:00 AM	11:20:00 AM	PP12B	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability II	Paleoceanography and Paleoclimatology	AGU 5
Persistent teleconnection of North Atlantic and sub-Antarctic climate anomalies during the last glacial period	Julia Gottschalk	11:20:00 AM	11:35:00 AM	PP12B	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability II	Paleoceanography and Paleoclimatology	AGU 5
Timing of Cordilleran Ice Rafting, Freshwater Discharge, and Implications for Subsurface Ventilation in the Northeast Pacific During the Last Deglaciation	Summer Praetorius	11:35:00 AM	11:50:00 AM	PP12B	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability II	Paleoceanography and Paleoclimatology	AGU 5
Deglacial floods in the Beaufort Sea	Lloyd Keigwin	11:50:00 AM	12:05:00 PM	PP12B	To Hose or Not to Hose: Mechanisms of Abrupt Climate Variability II	Paleoceanography and Paleoclimatology	AGU 5
Deglacial Evolution of Atlantic Mid-Depth and Intermediate-Depth Water Variability	Delia Oppo	1:40:00 PM	1:55:00 PM	PP13D	Past Ocean's Mode and Intermediate Water Variability II	Paleoceanography and Paleoclimatology	AGU 5
AMOC Evolution in the Last Deglaciation: Forcing Mechanism, Thermohaline Instability and Implications	Zhengyu Liu	1:55:00 PM	2:10:00 PM	PP13D	Past Ocean's Mode and Intermediate Water Variability II	Paleoceanography and Paleoclimatology	AGU 5
Deglacial Ocean Circulation Scheme at Intermediate Depths in the Tropical North Atlantic	Ruifang Xie	2:10:00 PM	2:25:00 PM	PP13D	Past Ocean's Mode and Intermediate Water Variability II	Paleoceanography and Paleoclimatology	AGU 5
North Atlantic intermediate water silicic acid during deglaciation: where do you come from, where do you go?	Katharine Hendry	2:25:00 PM	2:40:00 PM	PP13D	Past Ocean's Mode and Intermediate Water Variability II	Paleoceanography and Paleoclimatology	AGU 5
In Pursuit of the Mystery Reservoir: Marine Radiocarbon Evidence from the Eastern Tropical Pacific for a Deglacial CO_2 Source	Samantha Bova	2:40:00 PM	2:55:00 PM	PP13D	Past Ocean's Mode and Intermediate Water Variability II	Paleoceanography and Paleoclimatology	AGU 5
Millennial-Scale Variability in the Indian Monsoon and Links to Ocean Circulation	Kimberly DeLong	2:55:00 PM	3:10:00 PM	PP13D	Past Ocean's Mode and Intermediate Water Variability II	Paleoceanography and Paleoclimatology	AGU 5

A Mid-Holocene Shift and Millennial-Scale Variations in North Pacific Intermediate Water Oxygenation and Upper Ocean Hydrography	Lester Lembke-Jene	3:10:00 PM	3:25:00 PM	PP13D	Past Ocean's Mode and Intermediate Water Variability II	Paleoceanography and Paleoclimatology	AGU 5
Climate and Antartic Intermediate Water Covariations on Centennial-Millennial Timescales during MIS 3—Constraining the Role of the “Oceanic Tunnel” in Abrupt Climate Change.	Helga Kleiven	3:25:00 PM	3:40:00 PM	PP13D	Past Ocean's Mode and Intermediate Water Variability II	Paleoceanography and Paleoclimatology	AGU 5
Thermobaric instability: The role of the ocean in the last deglaciation	Andrew Ingersoll	4:00:00 PM	4:15:00 PM	PP14B	Past Ocean Dynamics II	Paleoceanography and Paleoclimatology	AGU 5
A Bayesian Approach for Reconstructing the Past Ocean Circulation from a Limited Number of Sediment-Core Radiocarbon Measurements	Francois Primeau	4:15:00 PM	4:30:00 PM	PP14B	Past Ocean Dynamics II	Paleoceanography and Paleoclimatology	AGU 5
The Antarctic Circumpolar Current during the Last Glacial Maximum	Jean Lynch-Stieglitz	4:30:00 PM	4:45:00 PM	PP14B	Past Ocean Dynamics II	Paleoceanography and Paleoclimatology	AGU 5
Northern control of Southern Source Water deglacial circulation in Rockall Trough, N.E. Atlantic.	I.N. McCave	4:45:00 PM	5:00:00 PM	PP14B	Past Ocean Dynamics II	Paleoceanography and Paleoclimatology	AGU 5
Ice Age Reboot: Thermohaline Circulation Crisis during the Mid-Pleistocene Transition	Leopoldo Pena	5:00:00 PM	5:15:00 PM	PP14B	Past Ocean Dynamics II	Paleoceanography and Paleoclimatology	AGU 5
Toward the Inference of Deglacial Ocean Dynamics from the Spatial Pattern of LGM-to-Modern d13C and d18O Change	Geoffrey Gebbie	5:15:00 PM	5:30:00 PM	PP14B	Past Ocean Dynamics II	Paleoceanography and Paleoclimatology	AGU 5
Glacial Atlantic Overturning in CMIP/PMIP models controlled by the Southern and Northern high latitude changes	Ayako Abe-Ouchi	5:30:00 PM	5:45:00 PM	PP14B	Past Ocean Dynamics II	Paleoceanography and Paleoclimatology	AGU 5
An Ocean Tale of Two Climates: Modern and Last Glacial Maximum	Raffaele Ferrari	5:45:00 PM	6:00:00 PM	PP14B	Past Ocean Dynamics II	Paleoceanography and Paleoclimatology	AGU 5
Introductory Remarks		1:40:00 PM	1:50:00 PM	U13A	Climate Literacy: The National Climate Assessment as a Resource for Decision Making and Education at Multiple Scales	Union	AGU 3

Risky Business and the *American Climate Prospectus* : Economic Risks of Climate Change in the United States"	Kate Gordon	1:50:00 PM	2:08:00 PM	U13A	Climate Literacy: The National Climate Assessment as a Resource for Decision Making and Education at Multiple Scales	Union	AGU 3
Making the connection: Federal efforts on climate change and health	John Balbus	2:08:00 PM	2:26:00 PM	U13A	Climate Literacy: The National Climate Assessment as a Resource for Decision Making and Education at Multiple Scales	Union	AGU 3
The U.S. EPA's Climate Change Adaptation Plans and the Nation Climate Assessment	Suzanne Marr	2:26:00 PM	2:44:00 PM	U13A	Climate Literacy: The National Climate Assessment as a Resource for Decision Making and Education at Multiple Scales	Union	AGU 3
The National Climate Assessment: A Treasure Trove for Education, Communications and Outreach	Mark McCaffrey	2:44:00 PM	3:02:00 PM	U13A	Climate Literacy: The National Climate Assessment as a Resource for Decision Making and Education at Multiple Scales	Union	AGU 3
NASA and the National Climate Assessment: Promoting awareness of NASA Earth science	Allison Leidner	3:02:00 PM	3:20:00 PM	U13A	Climate Literacy: The National Climate Assessment as a Resource for Decision Making and Education at Multiple Scales	Union	AGU 3
Panel Discussion		3:20:00 PM	3:40:00 PM	U13A	Climate Literacy: The National Climate Assessment as a Resource for Decision Making and Education at Multiple Scales	Union	AGU 3
Introductory Remarks		2:40:00 PM	2:50:00 PM	U13B	New Generation of Scientists	Union	AGU 6
Extreme space weather studies: Addressing societal needs	Chigomezyo Ngwira	2:50:00 PM	3:40:00 PM	U13B	New Generation of Scientists	Union	AGU 6
National Aeronautics and Space Administration and the Indian Space Research Organisation Synthetic Aperture Radar Mission Concept	Gerald Bawden	4:00:00 PM	4:15:00 PM	U14A	New Frontiers in Ecosystem, Solid Earth, Cryosphere, and Natural Hazards	Union	AGU 6
Large-Scale Mapping and Monitoring of Terrestrial Ecosystems with the NISAR Mission	Josef Kellndorfer	4:15:00 PM	4:30:00 PM	U14A	New Frontiers in Ecosystem, Solid Earth, Cryosphere, and Natural Hazards	Union	AGU 6
Importance of Nisar Mission for Ice Sheet Studies	Eric Rignot	4:30:00 PM	4:45:00 PM	U14A	New Frontiers in Ecosystem, Solid Earth, Cryosphere, and Natural Hazards	Union	AGU 6

Pre-Melting in Iron and Iron Alloys at Earth's Core Conditions: Results from Ab Initio Molecular Dynamics Calculations	Lidunka Vocadlo	1:40:00 PM	1:55:00 PM	DI13C	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments I	Study of Earth's Deep Interior	AGU 2
Attenuation Tomography of the Inner Core	Tanja Pejic	1:55:00 PM	2:10:00 PM	DI13C	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments I	Study of Earth's Deep Interior	AGU 2
Metal-silicate Partitioning of Uranium and Thorium up to 138 GPa and 5500 K and Implications for Stratified Layer at the Top of the Outer Core	Ryuichi Nomura	2:10:00 PM	2:25:00 PM	DI13C	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments I	Study of Earth's Deep Interior	AGU 2
Near-Melting Condition of the Inner Core Boundary Revealed from Antipodal Seismic Waves	Vernon Cormier	2:25:00 PM	2:40:00 PM	DI13C	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments I	Study of Earth's Deep Interior	AGU 2
Partial Melting in the Inner Core	John Hernlund	2:40:00 PM	2:55:00 PM	DI13C	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments I	Study of Earth's Deep Interior	AGU 2
Constraining the Velocity Structure at the Top of the Earth's Outer Core by SKKS and S3KS Differential Traveltimes	Li Zhao	2:55:00 PM	3:10:00 PM	DI13C	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments I	Study of Earth's Deep Interior	AGU 2
The Composition of Low-Velocity Layers at the Top and Bottom of the Earth's Core	James Badro	3:10:00 PM	3:25:00 PM	DI13C	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments I	Study of Earth's Deep Interior	AGU 2
Evidence for Stable Stratification at the Top of the Core from Core Surface Flows	Bruce Buffett	3:25:00 PM	3:40:00 PM	DI13C	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments I	Study of Earth's Deep Interior	AGU 2
Thermochemical Evolution of Earth's Core with Magnesium Precipitation	Joseph O'Rourke	4:00:00 PM	4:15:00 PM	DI14A	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments II	Study of Earth's Deep Interior	AGU 2
Filtering of short-term fluctuations of the dynamo field through the electrically conducting mantle	Dominique Jault	4:15:00 PM	4:30:00 PM	DI14A	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments II	Study of Earth's Deep Interior	AGU 2

Magnetostrophic Dynamos	Paul Roberts	4:30:00 PM	4:45:00 PM	DI14A	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments II	Study of Earth's Deep Interior	AGU 2
The Magnetostrophic Dynamo	Andrew Jackson	4:45:00 PM	5:00:00 PM	DI14A	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments II	Study of Earth's Deep Interior	AGU 2
Formation of Large-Scale Vortices in Rotating Convection and Interaction with Magnetic Fields	Celine Guervilly	5:00:00 PM	5:15:00 PM	DI14A	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments II	Study of Earth's Deep Interior	AGU 2
An Open-Source, Pseudo-Spectral Convection Code for O(10^5) Cores	Nicholas Featherstone	5:15:00 PM	5:30:00 PM	DI14A	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments II	Study of Earth's Deep Interior	AGU 2
Rapidly Rotating Rayleigh-Benard Convection: Approaching the Asymptotic Limit of Quasigeostrophic Thermal Convection.	Keith Julien	5:30:00 PM	5:45:00 PM	DI14A	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments II	Study of Earth's Deep Interior	AGU 2
Seismology Reveals Low-Rossby-Number Convection in the Interior of the Sun	Shravan Hanasoge	5:45:00 PM	6:00:00 PM	DI14A	The Structure, Dynamics, and Evolution of Earth's Core: Observations, Models, and Experiments II	Study of Earth's Deep Interior	AGU 2
Airborne Measurements of Secondary Organic Aerosol Formation in the Oil Sands Region of Alberta	John Liggio	8:00:00 AM	8:15:00 AM	A11L	Atmospheric Impacts of Oil and Gas Development I	Atmospheric Sciences	AGU 1
Using Co-Emitted Species to Identify Natural Gas Emission Vectors	Scott Herndon	8:15:00 AM	8:30:00 AM	A11L	Atmospheric Impacts of Oil and Gas Development I	Atmospheric Sciences	AGU 1
Reconciling Airborne Basin Scale Methane Flux Estimates with Ground Based Quantification of Methane and VOC Emissions from Well Pads.	Shane Murphy	8:30:00 AM	8:45:00 AM	A11L	Atmospheric Impacts of Oil and Gas Development I	Atmospheric Sciences	AGU 1
Emissions from Natural Gas Operations in the Marcellus Scale Formation: In Situ and and Remote Sensing	Russell Dickerson	8:45:00 AM	9:00:00 AM	A11L	Atmospheric Impacts of Oil and Gas Development I	Atmospheric Sciences	AGU 1
Primary emissions and secondary formation of volatile organic compounds from natural gas production in five major U.S. shale plays	Jessica Gilman	9:00:00 AM	9:15:00 AM	A11L	Atmospheric Impacts of Oil and Gas Development I	Atmospheric Sciences	AGU 1

Air Quality Impacts of Oil and Gas Operations in the Northern Colorado Front Range	Detlev Helmig	9:15:00 AM	9:30:00 AM	A11L	Atmospheric Impacts of Oil and Gas Development I	Atmospheric Sciences	AGU 1
Airborne Ethane Observations over the Barnett and Bakken Shale Formations: Quantification of Ethane Fluxes and Attribution of Methane Emissions	Mackenzie Smith	9:30:00 AM	9:45:00 AM	A11L	Atmospheric Impacts of Oil and Gas Development I	Atmospheric Sciences	AGU 1
Black Carbon Emissions from Associated Natural Gas Flaring	Cheryl Weyant	9:45:00 AM	10:00:00 AM	A11L	Atmospheric Impacts of Oil and Gas Development I	Atmospheric Sciences	AGU 1
Understanding High Wintertime Ozone Events over an Oil and Natural Gas Production Region from Air Quality Model Perspective	Ravan Ahmadov	10:20:00 AM	10:35:00 AM	A12C	Atmospheric Impacts of Oil and Gas Development II	Atmospheric Sciences	AGU 1
Winter Photochemistry Underlying High Ozone in an Oil and Gas Producing Region	Steven Brown	10:35:00 AM	10:50:00 AM	A12C	Atmospheric Impacts of Oil and Gas Development II	Atmospheric Sciences	AGU 1
Derived Emission Rates and Photochemical Production Rates of Volatile Organic Compounds (VOCs) Associated with Oil and Natural Gas Operations in the Uintah Basin, UT During a Wintertime Ozone Formation Event	Abigail Koss	10:50:00 AM	11:05:00 AM	A12C	Atmospheric Impacts of Oil and Gas Development II	Atmospheric Sciences	AGU 1
The Importance of Ammonia for Winter Haze Formation in Two Oil and Gas Production Regions	Jeffrey Collett	11:05:00 AM	11:20:00 AM	A12C	Atmospheric Impacts of Oil and Gas Development II	Atmospheric Sciences	AGU 1
Harmonization of Initial Estimates of Shale Gas Life Cycle Greenhouse Gas Emissions for Electric Power Generation	Garvin Heath	11:20:00 AM	11:35:00 AM	A12C	Atmospheric Impacts of Oil and Gas Development II	Atmospheric Sciences	AGU 1
Characterization of Early Stage Marcellus Shale Development Atmospheric Emissions and Regional Air Quality Impacts using Fast Mobile Measurements	James Goetz	11:35:00 AM	11:50:00 AM	A12C	Atmospheric Impacts of Oil and Gas Development II	Atmospheric Sciences	AGU 1
Quantifying Activity Counts, Emission Profiles and Emission Factors for Natural Gas Production on a Component- to Site-Level Scale Using Detailed Emissions Inventory Data from the Barnett Shale	Daniel Roda-Stuart	11:50:00 AM	12:05:00 PM	A12C	Atmospheric Impacts of Oil and Gas Development II	Atmospheric Sciences	AGU 1

Satellite Observations of Trace Gases and Their Application for Studying Air Quality Near Oil and Gas Operations	Debra Kollonige	12:05:00 PM	12:20:00 PM	A12C	Atmospheric Impacts of Oil and Gas Development II	Atmospheric Sciences	AGU 1

Legend
Atmospheric Sciences
Biogeosciences
Cryosphere
Education
Geochemistry, Mineralogy, Volcanology
Geochemistry, Mineralogy, Volcanology
Geochemistry, Mineralogy, Volcanology
Geodesy and Gravity
Geomagnetism and Paleomagnetism
Global Change
Hydrology
Hydrology, Cryosphere and Earth Surface (?)
Magnetospheric Physics
Natural Hazards
Nonlinear Geophysics
Ocean Science
Paleoceanography
Planetary Science
Pyscial Properties of Rocks
Science Policy
Seismology
Tectonophysics
Union

AGU Conference Schedule for Tuesday 12/16/2014

Presentation	Presenter	Start Pacific Time	End PACIFIC	Session	Session Title	Primary Section / Focus Group	Channel
Cross-equatorial flow and the Hadley Cell	Brian Hoskins	8:00 AM	9:00 AM	A21M	Atmospheric Sciences Bjerknes Lecture	Atmospheric Sciences	AGU 6
Grand Challenges in Understanding Clouds: From Ice Crystal Formation to	Ulrike Lohmann	9:00 AM	10:00 AM	A21N	Atmospheric Sciences Charney Lecture	Atmospheric Sciences	AGU 6
Predictions of Chemical Weather in Asia: The EU Panda Project	Guy Brasseur	10:20 AM	10:35 AM	A22C	Air Quality in Asia III	Atmospheric Sciences	AGU 4
Public Policy Challenges	Tong Zhu	10:35 AM	10:50 AM	A22C	Air Quality in Asia III	Atmospheric Sciences	AGU 4
A High-Resolution Two-Stage Satellite Model to Estimate $PM_{2.5}$	Yang Liu	10:50 AM	11:05 AM	A22C	Air Quality in Asia III	Atmospheric Sciences	AGU 4
Probable Health Risks Due to Exposure to Outdoor $PM_{2.5}$ in India	Sagnik Dey	11:05 AM	11:20 AM	A22C	Air Quality in Asia III	Atmospheric Sciences	AGU 4
China	Tao Feng	11:20 AM	11:35 AM	A22C	Air Quality in Asia III	Atmospheric Sciences	AGU 4
Estimating Ground-Level $PM_{2.5}$ in China Using Aerosol Optical Depth	Junwei Xu	11:35 AM	11:50 AM	A22C	Air Quality in Asia III	Atmospheric Sciences	AGU 4
Singapore Haze in June 2013: Consequences of Land-Use Change, Fires, and Anomalous Meteorology for	Shannon Koplitz	11:50 AM	12:05 PM	A22C	Air Quality in Asia III	Atmospheric Sciences	AGU 4
Simulation of Smoke-Haze Dispersion from Wildfires in South East Asia with	Denise Hertwig	12:05 PM	12:20 PM	A22C	Air Quality in Asia III	Atmospheric Sciences	AGU 4
China	Shaw Liu	1:40 PM	1:55 PM	A23N	Air Quality in Asia IV	Atmospheric Sciences	AGU 4
Mapping Air Pollution Concentrations and Sources in China from Ground-	Robert Rohde	1:55 PM	2:10 PM	A23N	Air Quality in Asia IV	Atmospheric Sciences	AGU 4
Roles of Uncontrollable VOC Emissions in the Regional Air Quality of the Seoul	Saewung Kim	2:10 PM	2:25 PM	A23N	Air Quality in Asia IV	Atmospheric Sciences	AGU 4
Recent Improvement in Air Quality as Evidenced by the Island-wide	Sheng-po Chen	2:25 PM	2:40 PM	A23N	Air Quality in Asia IV	Atmospheric Sciences	AGU 4
Observation of black carbon, ozone and carbon monoxide in the Kali	Shradda Dhungel	2:40 PM	2:55 PM	A23N	Air Quality in Asia IV	Atmospheric Sciences	AGU 4
Impact of synoptic patterns on East Asia pollutant transport pathways	Hyun Kim	2:55 PM	3:10 PM	A23N	Air Quality in Asia IV	Atmospheric Sciences	AGU 4
Agriculture Crop Burning in Northwestern India and Its Impact on	Ramesh Singh	3:10 PM	3:25 PM	A23N	Air Quality in Asia IV	Atmospheric Sciences	AGU 4

Air Quality in Mecca and Surrounding Holy Places in Saudi Arabia during	Isobel Simpson	3:25 PM	3:40 PM	A23N	Air Quality in Asia IV	Atmospheric Sciences	AGU 4
Improving Air Quality (and weather) Predictions in Asia via Application of New Data Assimilation Techniques	Gregory Carmichael	4:00 PM	4:15 PM	A24A	Air Quality in Asia V	Atmospheric Sciences	AGU 4
Decadal trend and interannual variation of outflow of aerosols from East Asia: Roles of variations in	Yang Yang	4:15 PM	4:30 PM	A24A	Air Quality in Asia V	Atmospheric Sciences	AGU 4
Modeling the contributions of emission, meteorology, and chemistry	Yuxuan Wang	4:30 PM	4:45 PM	A24A	Air Quality in Asia V	Atmospheric Sciences	AGU 4
Source attribution of PM2.5 pollution over North China using the adjoint	Lin Zhang	4:45 PM	5:00 PM	A24A	Air Quality in Asia V	Atmospheric Sciences	AGU 4
Sulfate Aerosol Formation and Oxidation Pathways on Haze Event	Daeryun Choi	5:00 PM	5:15 PM	A24A	Air Quality in Asia V	Atmospheric Sciences	AGU 4
Fast in-situ measurements of glyoxal (CHOCHO) and nitrous acid (HONO) in	Kyung-Eun Min	5:15 PM	5:30 PM	A24A	Air Quality in Asia V	Atmospheric Sciences	AGU 4
Evaluating the Impacts of Transboundary Air pollution from	Nicole Ngo	5:30 PM	5:45 PM	A24A	Air Quality in Asia V	Atmospheric Sciences	AGU 4
Effects of China's Energy Policy on Future Air Quality in China and the	Mingwei Li	5:45 PM	6:00 PM	A24A	Air Quality in Asia V	Atmospheric Sciences	AGU 4
ABRUPT CLIMATE CHANGE: THE VIEW FROM THE PAST, THE PRESENT AND	James White	1:40 PM	2:40 PM	C23D	Nye Lecture	Cryosphere	AGU 5
Toward Collective Impact for Climate Resilience: Maximizing Climate Change Education for Preparedness, Adaptation, and Mitigation	Tamara Ledley	8:00 AM	8:15 AM	ED21E	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks I	Education	AGU 3
The National Climate Assessment as a Resource for Science Communication	Richard Somerville	8:15 AM	8:30 AM	ED21E	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks I	Education	AGU 3
Enhancing Communication of Climate Impacts Assessments: Examples of Local Stories, Animations and Video.	Melanie Fitzpatrick	8:30 AM	8:45 AM	ED21E	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks I	Education	AGU 3
"It Takes a Network": Building National Capacity for Climate Change Interpretation	William Spitzer	8:45 AM	9:00 AM	ED21E	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks I	Education	AGU 3

Fostering Creativity through Collaboration: Polar Learning and Responding Climate Change Education Partnership	Stephanie Pfirman	9:00 AM	9:15 AM	ED21E	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks I	Education	AGU 3
How to Effect Change Through Cross-sector Collaboration	Raluca Ellis	9:15 AM	9:30 AM	ED21E	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks I	Education	AGU 3
Building Lasting Impact: Ten Years of the Earth to Sky Interagency Partnership	Anita Davis	9:30 AM	9:45 AM	ED21E	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks I	Education	AGU 3
Climatevoices.org -- Engaging an Array of U.S. Public Audiences in the Science of Climate Change	Cynthia Schmidt	9:45 AM	10:00 AM	ED21E	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks I	Education	AGU 3
Downscaling the IPCC: The 2008 and 2014 Colorado Climate Assessments	Kristen Averyt	10:20 AM	10:35 AM	ED22A	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks II	Education	AGU 3
Bridging the Science/Policy Gap through Boundary Chain Partnerships and Communities of Practice	Scott Kalafatis	10:35 AM	10:50 AM	ED22A	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks II	Education	AGU 3
Integrating Communication Best Practices in the Third National Climate Assessment	Susan Hassol	10:50 AM	11:05 AM	ED22A	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks II	Education	AGU 3
Building Student Awareness of Societal Decision-Making Challenges about Energy through the Study of Earth System Data and Innovations in	Daniel Zalles	11:05 AM	11:20 AM	ED22A	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks II	Education	AGU 3
Let the Games Begin: New Opportunities to Address Climate Change Communication, Education, and Decision Support	Juliette Rooney-varga	11:20 AM	11:35 AM	ED22A	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks II	Education	AGU 3
Does a social action experience around energy conservation promote changes in attitude and understanding of climate change?	Eugene Cordero	11:35 AM	11:50 AM	ED22A	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks II	Education	AGU 3

Empowering Pre-College Students To Engage In Climate Change Solutions	Dana Haine	11:50 AM	12:05 PM	ED22A	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks II	Education	AGU 3
A Science-Faith Partnership to Provide Education and Facilitate Action on Climate Change and Energy Use	Jason Cervenec	12:05 PM	12:20 PM	ED22A	Climate Literacy: Effective Responses and Solutions through Best Practices in Communication, Partnerships, and Networks II	Education	AGU 3
Building Capacity: The National Network for Ocean and Climate Change Interpretation	William Spitzer	1:40 PM	1:55 PM	ED23F	Climate Literacy: Strategies for Talking About Controversial Issues Outside of the Classroom / Preparing Climate Literate K-12 Teachers and Students II	Education	AGU 3
Climate Literacy in the Classroom: Supporting Teachers in the Transition to NGSS	Melissa Rogers	1:55 PM	2:10 PM	ED23F	Climate Literacy: Strategies for Talking About Controversial Issues Outside of the Classroom / Preparing Climate Literate K-12 Teachers and Students II	Education	AGU 3
Getting Decision Makers to the Table: Digestible Facts, a Few Good Friends and Sharing Recipes for Solutions to Climate Change Impacts.	Michel Boudrias	2:10 PM	2:25 PM	ED23F	Climate Literacy: Strategies for Talking About Controversial Issues Outside of the Classroom / Preparing Climate Literate K-12 Teachers and Students II	Education	AGU 3
Lens on Climate Change (LOCC) – Engaging Secondary Students in Climate Science through Videography	Anne Gold	2:25 PM	2:40 PM	ED23F	Climate Literacy: Strategies for Talking About Controversial Issues Outside of the Classroom / Preparing Climate Literate K-12 Teachers and Students II	Education	AGU 3
The Evolving Risk of Climate Change and National Security: People not Polar Bears	David Titley	2:40 PM	2:55 PM	ED23F	Climate Literacy: Strategies for Talking About Controversial Issues Outside of the Classroom / Preparing Climate Literate K-12 Teachers and Students II	Education	AGU 3
Advancing Climate Literacy through Investment in Science Education Faculty, and Future and Current Science Teachers: Providing Professional Learning, Instructional	Catherine Halversen	2:55 PM	3:10 PM	ED23F	Climate Literacy: Strategies for Talking About Controversial Issues Outside of the Classroom / Preparing Climate Literate K-12 Teachers and Students II	Education	AGU 3

Engaging All Americans: Innovative Strategies for Reaching the Public with Climate and Environmental Information	Sara Espinoza	3:10 PM	3:25 PM	ED23F	Climate Literacy: Strategies for Talking About Controversial Issues Outside of the Classroom / Preparing Climate Literate K-12 Teachers and Students II	Education	AGU 3
Preparing This Generation to be the Next Generation: Educator Climate Literacy Practices and Needs, Desirable Attainments, and Exemplar Resources	Susan Buhr Sullivan	3:25 PM	3:40 PM	ED23F	Climate Literacy: Strategies for Talking About Controversial Issues Outside of the Classroom / Preparing Climate Literate K-12 Teachers and Students II	Education	AGU 3
Global Change Geodesy: A Geophysical Perspective	Jerry Mitrovica	4:00 PM	5:00 PM	G24A	Bowie Lecture	Geodesy	AGU 5
Evaluating the Impacts of Climate Change on the Operations and Future	Robin Newmark	10:20 AM	10:35 AM	GC22A	Climate and the Intersects of Water, Energy, and Land Use I	Global Environmental Change	AGU 1
Climate Change and Future U.S. Electricity Infrastructure: the Nexus between Water Availability, Land	Jennie Rice	10:35 AM	10:50 AM	GC22A	Climate and the Intersects of Water, Energy, and Land Use I	Global Environmental Change	AGU 1
Exploring the energy-water-food-climate nexus for the Indian Economy in 2030	Farzad Taheripour	10:50 AM	11:05 AM	GC22A	Climate and the Intersects of Water, Energy, and Land Use I	Global Environmental Change	AGU 1
Climate change vulnerability of global hydropower generation	Fabio Farinosi	11:05 AM	11:20 AM	GC22A	Climate and the Intersects of Water, Energy, and Land Use I	Global Environmental Change	AGU 1
Energy Requirements by the Water Sector in the Southwestern US: Past,	Kristen Averyt	11:20 AM	11:35 AM	GC22A	Climate and the Intersects of Water, Energy, and Land Use I	Global Environmental Change	AGU 1
Land Use Change Impacts to Flows and Hydropower at the Southern Fringe of the Brazilian Amazon: A	Morgan Levy	11:35 AM	11:50 AM	GC22A	Climate and the Intersects of Water, Energy, and Land Use I	Global Environmental Change	AGU 1
Regional Analysis of Energy, Water, Land and Climate Interactions	Vincent Tidwell	11:50 AM	12:05 PM	GC22A	Climate and the Intersects of Water, Energy, and Land Use I	Global Environmental Change	AGU 1
The Northeastern United States Energy-Water Nexus: Climate Change Impacts and Alternative Water	Ariel Miara	12:05 PM	12:20 PM	GC22A	Climate and the Intersects of Water, Energy, and Land Use I	Global Environmental Change	AGU 1
Mercury's Magnetic Field	Catherine Johnson	5:00 PM	5:45 PM	GP24A	Bullard Lecture	Geomagnetism and Paleomagnetism	AGU 6
Impact of Unconventional Shale Gas Waste Water Disposal on Surficial Streams	Isabelle Cozzarelli	8:00 AM	8:20 AM	H21K	Natural and Anthropogenic Contamination of Water Resources Related to Oil and Gas Production from Unconventionals: Processes, Monitoring, and Stewardship I	Hydrology	AGU 4

Relationship between Prevailing Redox Conditions, Water Type, Topographic Location and Methane Concentrations in Susquehanna County, NE Pennsylvania	Lisa Molofsky	8:20 AM	8:40 AM	H21K	Natural and Anthropogenic Contamination of Water Resources Related to Oil and Gas Production from Unconventionals: Processes, Monitoring, and Stewardship I	Hydrology	AGU 4
What Controls Methane in Potable Ground Water in the Appalachian Basin?	Donald Siegel	8:40 AM	9:00 AM	H21K	Natural and Anthropogenic Contamination of Water Resources Related to Oil and Gas Production from Unconventionals: Processes, Monitoring, and Stewardship I	Hydrology	AGU 4
Groundwater baseline sampling programs designed to identify potential leakage from unconventional gas plays in Alberta, Canada	Bernhard Mayer	9:00 AM	9:20AM	H21K	Natural and Anthropogenic Contamination of Water Resources Related to Oil and Gas Production from Unconventionals: Processes, Monitoring, and Stewardship I	Hydrology	AGU 4
An Overview of Baseline Sampling Guidelines for Unconventional Resource Development	Jenna Kromann	9:20 AM	9:40 AM	H21K	Natural and Anthropogenic Contamination of Water Resources Related to Oil and Gas Production from Unconventionals: Processes, Monitoring, and Stewardship I	Hydrology	AGU 4
Identifying Methane Sources in Groundwater; Quantifying Changes in Compositional and Stable Isotope Values during Multiphase Transport	Toti Larson	9:40 AM	10:00 AM	H21K	Natural and Anthropogenic Contamination of Water Resources Related to Oil and Gas Production from Unconventionals: Processes, Monitoring, and Stewardship I	Hydrology	AGU 4
Future Challenges of Modeling THMC Systems	Stephen Miller	8:00 AM	8:15 AM	H21M	Numerical Modelling of Geo-Energy Related Physical Processes in Geological Systems I	Hydrology	AGU 1
REDBACK: an Open-Source Highly Scalable Simulation Tool for Rock Mechanics with Dissipative Feedbacks	Thomas Poulet	8:15 AM	8:30 AM	H21M	Numerical Modelling of Geo-Energy Related Physical Processes in Geological Systems I	Hydrology	AGU 1
Ductile shear zones can induce hydraulically over-pressured fractures in deep hot-dry rock reservoirs: a new	Christoph Schrank	8:30 AM	8:45 AM	H21M	Numerical Modelling of Geo-Energy Related Physical Processes in Geological Systems I	Hydrology	AGU 1

Modeling the Impact of Multiple Physical Processes on the Stimulation and Longevity of Enhanced	Joshua Taron	8:45 AM	9:00 AM	H21M	Numerical Modelling of Geo-Energy Related Physical Processes in Geological Systems I	Hydrology	AGU 1
Geological controls on supercritical fluid resources in volcanic geothermal systems	Samuel Scott	9:00 AM	9:15 AM	H21M	Numerical Modelling of Geo-Energy Related Physical Processes in Geological Systems I	Hydrology	AGU 1
Barometric Pumping of a Fractured Porous Medium	Pierre Adler	9:15 AM	9:30 AM	H21M	Numerical Modelling of Geo-Energy Related Physical Processes in Geological Systems I	Hydrology	AGU 1
Inferring Hydraulic and Fracture Properties of a Fracked Coal Seam Aquifer by Using GLUE Uncertainty	Garry Willgoose	9:30 AM	9:45 AM	H21M	Numerical Modelling of Geo-Energy Related Physical Processes in Geological Systems I	Hydrology	AGU 1
Overpressure Evolution during Sedimentary Basin Diagenesis: Implications for Hydrocarbon	Ajit Joshi	9:45 AM	10:00 AM	H21M	Numerical Modelling of Geo-Energy Related Physical Processes in Geological Systems I	Hydrology	AGU 1
Welcoming Remarks		10:20 AM	10:25 AM	H22A	Walter B. Langbein Lecture	Hydrology	AGU 5
Presentation of the Early Career Hydrological Sciences Award		10:25 AM	10:32 AM	H22A	Walter B. Langbein Lecture	Hydrology	AGU 5
Presentation of the Hydrological		10:32 AM	10:39 AM	H22A	Walter B. Langbein Lecture	Hydrology	AGU 5
Presentation of the Walter B Langbein		10:39 AM	10:44 AM	H22A	Walter B. Langbein Lecture	Hydrology	AGU 5
Isotopes and Isoscapes: Tools for Testing Hydrological and	Carol Kendall	10:44 AM	12:20 AM	H22A	Walter B. Langbein Lecture	Hydrology	AGU 5
Leak Path Development in CO_2 Wells	Malin Torsater	1:40 PM	1:55 PM	H23O	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage IV	Hydrology	AGU 1
Impact of Casing Expansion on the Mechanical and Petro-Physical Properties of Wellbore Cements	Arome Oyibo	1:55 PM	2:10 PM	H23O	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage IV	Hydrology	AGU 1
Microhardness Measurements on Chemically and Mechanically Altered Well Bore Cements	Hui Du	2:10 PM	2:25 PM	H23O	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage IV	Hydrology	AGU 1
Evaluation Of The Potential For Geomechanical Monitoring And Stochastic Calibration Methods To	Alexander Hanna	2:25 PM	2:40 PM	H23O	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage IV	Hydrology	AGU 1
Experimental Approach To Elucidating Damage Mechanisms In Cement-Well Casting-Host Rock Settings For	Chang Li	2:40 PM	2:55 PM	H23O	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage IV	Hydrology	AGU 1
Numerical investigation of class H cement deterioration under CO_2-O_2 co-exposure in down-well conditions	Vahid Jafari Azad	2:55 PM	3:10 PM	H23O	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage IV	Hydrology	AGU 1

Effects of CO_2-induced Reaction on the Transport Properties of Debonded Well Cement-Casing Interfaces:	Timotheus Wolterbeek	3:10 PM	3:25 PM	H23O	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage IV	Hydrology	AGU 1
Improved Understanding of Carbon Storage Risk Via Controlled-Release Experiments	Jens Birkholzer	4:00 PM	4:15 PM	H24A	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage V	Hydrology	AGU 1
Analysis of Pressure Data As CO2/Brine Leak Diagnostic in Shallow Aquifers	Whitney Trainor Guitton	4:15 PM	4:30 PM	H24A	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage V	Hydrology	AGU 1
Role of the Capillary Transition Zone on the Dissolution of CO_2 into Brine in Saline Reservoirs	Mario Martinez	4:30 PM	4:45 PM	H24A	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage V	Hydrology	AGU 1
Experimental Investigation of CO_2 Trapping and Leakage Mechanisms in Deep Geologic Formations for Model	Tissa Illangasekare	4:45 PM	5:00 PM	H24A	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage V	Hydrology	AGU 1
Application of Harmonic Pulse Testing for Leakage Detection in Carbon Storage Formations	Alexander Sun	5:00 PM	5:15 PM	H24A	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage V	Hydrology	AGU 1
Reactive transport modeling to quantify trace element release into fresh groundwater in case of CO_2 leak	Julie Lions	5:15 PM	5:30 PM	H24A	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage V	Hydrology	AGU 1
Geochemical Impacts of Leaking CO_2 from Subsurface Storage Reservoirs on the Fate of Metal Contaminants in an	Hongbo Shao	5:30 PM	5:45 PM	H24A	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage V	Hydrology	AGU 1
Capillary pressure - saturation relations for supercritical CO_2 and brine: Implications for	Shibo Wang	5:45 PM	6:00 PM	H24A	Coupled Hydraulic, Geochemical, and Geomechanical Processes in Carbon Storage V	Hydrology	AGU 1
Particle Filters for Very High-Dimensional Systems	Peter Jan van Leeuwen	1:40 PM	1:55 PM	NG23C	Non-Gaussian and Nonlinear Techniques for Data Assimilation/Fusion, Predictability, and Uncertainty Quantification and Neural Networks I	Nonlinear Geophysics	AGU 2
4D Hybrid Ensemble-Variational Data Assimilation for the NCEP GFS: Outer Loops and Variable Transforms	Daryl Kleist	1:55 PM	2:10 PM	NG23C	Non-Gaussian and Nonlinear Techniques for Data Assimilation/Fusion, Predictability, and Uncertainty Quantification and Neural Networks I	Nonlinear Geophysics	AGU 2

A Global Approach to the Identification of Model Noise	Alexandre Chorin	2:10 PM	2:25 PM	NG23C	Non-Gaussian and Nonlinear Techniques for Data Assimilation/Fusion, Predictability, and Uncertainty Quantification and Neural Networks I	Nonlinear Geophysics	AGU 2
A Local Approach to Hybrid Data Assimilation	Kayo Ide	2:25 PM	2:40 PM	NG23C	Non-Gaussian and Nonlinear Techniques for Data Assimilation/Fusion, Predictability, and Uncertainty Quantification and Neural Networks I	Nonlinear Geophysics	AGU 2
Bounds on the performance of particle filters	Chris Snyder	2:40 PM	2:55 PM	NG23C	Non-Gaussian and Nonlinear Techniques for Data Assimilation/Fusion, Predictability, and Uncertainty Quantification and Neural Networks I	Nonlinear Geophysics	AGU 2
Transport map-accelerated Markov chain Monte Carlo for Bayesian parameter inference	Youssef Marzouk	2:55 PM	3:10 PM	NG23C	Non-Gaussian and Nonlinear Techniques for Data Assimilation/Fusion, Predictability, and Uncertainty Quantification and Neural Networks I	Nonlinear Geophysics	AGU 2
Using Self-Organizing Maps in Creation of an Ocean Forecasting System	Ivica Vilibic	3:10 PM	3:25 PM	NG23C	Non-Gaussian and Nonlinear Techniques for Data Assimilation/Fusion, Predictability, and Uncertainty Quantification and Neural Networks I	Nonlinear Geophysics	AGU 2
A connectionist-geostatistical approach for classification of deformation types in ice surfaces	Lukas Goetz-Weiss	3:25 PM	3:40 PM	NG23C	Non-Gaussian and Nonlinear Techniques for Data Assimilation/Fusion, Predictability, and Uncertainty Quantification and Neural Networks I	Nonlinear Geophysics	AGU 2
The Mystery of Chevrons Revealed	Michaela Spiske	4:00 PM	4:15 PM	NH24A	Recent Advances in Research on Geological and Environmental Impacts of Tsunamis II	Natural Hazards	AGU 2
Improving Tsunami Hazard Assessment: Lessons from Deposits from Seven Modern Tsunamis	Brent Lunghino	4:15 PM	4:30 PM	NH24A	Recent Advances in Research on Geological and Environmental Impacts of Tsunamis II	Natural Hazards	AGU 2

Tsunami deposits formed and preserved in accordance with the local environment	Yuichi Nishimura	4:30 PM	4:45 PM	NH24A	Recent Advances in Research on Geological and Environmental Impacts of Tsunamis II	Natural Hazards	AGU 2
Historical Tropical Cyclones and the 1883 Krakatoa Tsunami Inferred from Geological Archives of the Ashburton Delta (NW Australia)	Simon May	4:45 PM	5:00 PM	NH24A	Recent Advances in Research on Geological and Environmental Impacts of Tsunamis II	Natural Hazards	AGU 2
Bedforms under tsunami flows	Raphael Paris	5:00 PM	5:15 PM	NH24A	Recent Advances in Research on Geological and Environmental Impacts of Tsunamis II	Natural Hazards	AGU 2
Shallow Offshore Tsunami Sedimentary Deposits: Challenges and Benefits with examples from the Eastern Mediterranean and northern	Beverly Goodman Tchernov	5:15 PM	5:30 PM	NH24A	Recent Advances in Research on Geological and Environmental Impacts of Tsunamis II	Natural Hazards	AGU 2
Recent Advances in Tsunami Research – the Devil Is in the Detail	James Goff	5:30 PM	5:45 PM	NH24A	Recent Advances in Research on Geological and Environmental Impacts of Tsunamis II	Natural Hazards	AGU 2
Inversion of tsunami characteristics:Estimation of transient flow depth and speed with quantified uncertainties	Hui Tang	5:45 PM	6:00 PM	NH24A	Recent Advances in Research on Geological and Environmental Impacts of Tsunamis II	Natural Hazards	AGU 2
Nitrogen Loss Processes and Nitrous Oxide Turnover in Oceanic Oxygen	Bess Ward	5:00 PM	6:00 PM	OS24B	Carson Lecture	Ocean Sciences	AGU 5
The U.S. National Plan for Civil Earth Observations	Timothy Stryker	2:40 PM	2:50 PM	PA23C	Earth Observations: Research Imperatives and Societal Impacts	Public Affairs	AGU 5
The Future of the Plate Boundary Observatory in the GAGE Facility and	Glen Mattioli	2:50 PM	3:00 PM	PA23C	Earth Observations: Research Imperatives and Societal Impacts	Public Affairs	AGU 5
The Continuously Operating Caribbean Observational Network (COCONet): Supporting Regional	John Braun	3:00 PM	3:10 PM	PA23C	Earth Observations: Research Imperatives and Societal Impacts	Public Affairs	AGU 5
Induced Seismicity: Balancing the Scientific Process With the Need for	Elizabeth Cochran	3:10 PM	3:20 PM	PA23C	Earth Observations: Research Imperatives and Societal Impacts	Public Affairs	AGU 5
The 2014 Greeley, Colorado Earthquakes: Science, Industry,	Anne Sheehan	3:20 PM	3:30 PM	PA23C	Earth Observations: Research Imperatives and Societal Impacts	Public Affairs	AGU 5
The Need for, and Limits of, Scientific Information in Local Decision Making	Pallavi Phartiyal	3:30 PM	3:40 PM	PA23C	Earth Observations: Research Imperatives and Societal Impacts	Public Affairs	AGU 5

Recent Experiences in Aftershock Hazard Modelling in New Zealand	Matt Gerstenberger	10:20 AM	10:35 AM	S22A	Aftershock Hazard: Forecasting Highly Time and Space Dependent Seismicity and Shaking after Large Mainshocks I	Seismology	AGU 2
Long Aftershock Sequences within Continents and Implications for Earthquake Hazard Assessment	Seth Stein	10:35 AM	10:50 AM	S22A	Aftershock Hazard: Forecasting Highly Time and Space Dependent Seismicity and Shaking after Large Mainshocks I	Seismology	AGU 2
Evidence Against the New Madrid Long Lived Aftershock Hypothesis	Morgan Page	10:50 AM	11:05 AM	S22A	Aftershock Hazard: Forecasting Highly Time and Space Dependent Seismicity and Shaking after Large Mainshocks I	Seismology	AGU 2
What Controls the Duration of Aftershocks, and Why It Matters for Probabilistic Seismic Hazard Assessment	Ross Stein	11:05 AM	11:20 AM	S22A	Aftershock Hazard: Forecasting Highly Time and Space Dependent Seismicity and Shaking after Large Mainshocks I	Seismology	AGU 2
Global Catalog Analysis Shows That Dynamic Triggering Or Shadowing Of Remote M≥5.5 Earthquakes Is Rare	Christopher Johnson	11:20 AM	11:35 AM	S22A	Aftershock Hazard: Forecasting Highly Time and Space Dependent Seismicity and Shaking after Large Mainshocks I	Seismology	AGU 2
A New Hybrid STEP/Coulomb model for Aftershock Forecasting	Sandy Steacy	11:35 AM	11:50 AM	S22A	Aftershock Hazard: Forecasting Highly Time and Space Dependent Seismicity and Shaking after Large Mainshocks I	Seismology	AGU 2
Operational earthquake forecasting in California: A prototype system combining UCERF3 and CyberShake	Kevin Milner	11:50 AM	12:05 PM	S22A	Aftershock Hazard: Forecasting Highly Time and Space Dependent Seismicity and Shaking after Large Mainshocks I	Seismology	AGU 2
Dynamic Aftershock Triggering Correlated with Cyclic Loading in the Slip Direction	Jeanne Hardebeck	12:05 PM	12:20 PM	S22A	Aftershock Hazard: Forecasting Highly Time and Space Dependent Seismicity and Shaking after Large Mainshocks I	Seismology	AGU 2

Presentation of the Keiiti Aki Young Scientist Award		4:00 PM	4:05 PM	S24A	Gutenberg Lecture	Seismology	AGU 6
Introduction to the Gutenberg Lecture		4:05 PM	4:10 PM	S24A	Gutenberg Lecture	Seismology	AGU 6
New and Evolving Seismic Images of the Central Andes and Subducting Nazca Slab: 20 Years of Portable Seismology Results	Susan Beck	4:10 PM	5:00 PM	S24A	Gutenberg Lecture	Seismology	AGU 6
Introductory Remarks		4:00 PM	4:05 PM	U24A	Doing Community Science with Rigor and Respect: Case Studies, Theory, and the Thriving Earth	Union	AGU 3
Engaging Indigenous Communities and Research Scientists to Manage Climate Risk	Roger Pulwarty	4:05 PM	4:40 PM	U24A	Doing Community Science with Rigor and Respect: Case Studies, Theory, and the Thriving Earth	Union	AGU 4
Discussion		4:40 PM	4:55 PM	U24A	Doing Community Science with Rigor and Respect: Case Studies, Theory, and the Thriving Earth	Union	AGU 5
Open NASA Earth Exchange (OpenNEX): A Public-Private Partnership for Climate Change	Ramakrishna Nemani	4:55 PM	5:30 PM	U24A	Doing Community Science with Rigor and Respect: Case Studies, Theory, and the Thriving Earth	Union	AGU 6
Discussion		5:30 PM	5:45 PM	U24A	Doing Community Science with Rigor and Respect: Case Studies, Theory, and the Thriving Earth	Union	AGU 7
Concluding Remarks		5:45 PM	6:00 PM	U24A	Doing Community Science with Rigor and Respect: Case Studies, Theory, and the Thriving Earth	Union	AGU 8
Hydrothermal Fluids, Nebular Vapors and Silicate MELTS As Seem through the Eyes of Minerals	Richard Sack	8:00 AM	8:50 AM	V21C	Norman L. Bowen Award	Volcanology, Geochemistry and Petrology	AGU 5
On the Future of Thermochemical Databases, the Development of Solution Models and the Practical Use of Computational Thermodynamics in Volcanology, Geochemistry and Petrology: Can Innovations of Modern Data Science Democratize an Oligarchy?	Mark Ghiorso	8:50 AM	9:40 AM	V21C	Norman L. Bowen Award	Volcanology, Geochemistry and Petrology	AGU 5

Legend
Atmospheric Sciences
Biogeosciences
Cryosphere
Education
Geochemistry, Mineralogy, Volcanology
Geochemistry, Mineralogy, Volcanology
Geochemistry, Mineralogy, Volcanology
Geodesy and Gravity
Geomagnetism and Paleomagnetism
Global Change
Hydrology
Hydrology, Cryosphere and Earth Surface (?)
Magnetospheric Physics
Natural Hazards
Nonlinear Geophysics
Ocean Science
Paleoceanography
Planetary Science
Pyscial Properties of Rocks
Science Policy
Seismology
Tectonophysics
Union

AGU Conference Schedule for Wednesday 12/17/2014

Presentation	Presenter	Start Pacific Time	End Pacific Time	Session Title	Primary Section / Focus Group	Channel
Context of aerosol chemistry over the Southeast United States	Daniel Murphy	8:00 AM	8:15 AM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States I	Atmospheric Sciences	AGU 3
New Constraints On The Mechanism Of Isoprene Oxidation By OH: Laboratory And Field Observations For DC3, SOAS, And SEAC4RS	Paul Wennberg	8:15 AM	8:30 AM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States I	Atmospheric Sciences	AGU 3
Isoprene Chemistry in the Southeastern United States Constrained By GEOS-Chem Chemical Transport Model Interpretation of Aircraft Observations from the 2013 NASA SEAC^{4}rs Campaign	Jenny Fisher	8:30 AM	8:45 AM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States I	Atmospheric Sciences	AGU 3
Atmospheric Oxidation in a Southeastern US Forest: Sensitivity of Differences Between Modeled and Measured Hydroxyl (OH) to Model Mechanism and Inputs	William Brune	8:45 AM	9:00 AM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States I	Atmospheric Sciences	AGU 3
Isoprene chemistry in an urban area at the edge of the Ozarks: Observations from the SLAQRS campaign	Munkhbayar Baasandorj	9:00 AM	9:15 AM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States I	Atmospheric Sciences	AGU 3
SOA Precursors: A Comparison of Semi-Volatile and Water Soluble Organic Gases During SOAS	Neha Sareen	9:15 AM	9:30 AM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States I	Atmospheric Sciences	AGU 3
HO_x Radical Behavior in Urban, Biogenic and Mixed Environments	Christopher Cantrell	9:30 AM	9:45 AM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States I	Atmospheric Sciences	AGU 3
Tropospheric HONO Distribution and Chemistry in the Southeastern U.S.	Xianliang Zhou	9:45 AM	10:00 AM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States I	Atmospheric Sciences	AGU 3
Sources, properties, aging, and anthropogenic influences on OA and SOA over the Southeast US and the Amazon during SOAS, DC3, SEAC4RS, and GoAmazon	Jose Jimenez	10:20 AM	10:35 AM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States II	Atmospheric Sciences	AGU 3

Evaluation of Biogenic and Fire Emissions in a Global Chemistry Model with NOMADSS, DC3 and SEAC4RS observations	Louisa Emmons	10:35 AM	10:50 AM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States II	Atmospheric Sciences	AGU 3
Biomass Burning Dominates Brown Carbon Absorption in the Rural Southeastern U.S.	Rebecca Washenfelder	10:50 AM	11:05 AM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States II	Atmospheric Sciences	AGU 3
Biogenic Volatile Organic Compound Emissions from Vegetation and Paper Mills in the Southeast United States during the SENEX (Southeast Nexus) Campaign in 2013	Carsten Warneke	11:05 AM	11:20 AM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States II	Atmospheric Sciences	AGU 3
Influence of Dynamics and Chemistry on the Diurnal Variation of VOCs in the Planetary Boundary Layer above a Mixed Forest Canopy in the Southeastern United States	Alex Guenther	11:20 AM	11:35 AM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States II	Atmospheric Sciences	AGU 3
The Formation and Aerosol Uptake of Isoprene Nitrooxyhydroxyepoxide (INHE), a Newly Identified Product from the RO_2 + HO_2 Pathway of Isoprene NO_3 Oxidation	Rebecca Schwantes	11:35 AM	11:50 AM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States II	Atmospheric Sciences	AGU 3
Use of NOMADSS Observations to Improve Our Understanding of the Land and Ocean Fluxes of Mercury	Shaojie Song	11:50 AM	12:05 PM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States II	Atmospheric Sciences	AGU 3
Airborne Eddy Covariance Fluxes Provide Novel Constraints on Sources and Sinks of Reactive Gases in the Planetary Boundary Layer	Glenn Wolfe	12:05 PM	12:20 PM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States II	Atmospheric Sciences	AGU 3
Observing BVOC Emissions, Oxidation, Deposition, and Interactions with Anthropogenic Pollutants to Form SOA in the Southeast United States	Allen Goldstein	1:40 PM	1:55 PM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States III	Atmospheric Sciences	AGU 3
Secondary organic aerosol (SOA) derived from isoprene epoxydiols: Insights into formation, aging and distribution over the continental US from the DC3 and SEAC4RS campaigns	Pedro Campuzano Jost	1:55 PM	2:10 PM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States III	Atmospheric Sciences	AGU 3
Isoprene Epoxydiols Derived Secondary Organic Aerosol (IEPOX-SOA): Insights from Aerosol Mass Spectrometer Field Measurements	Weiwei Hu	2:10 PM	2:25 PM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States III	Atmospheric Sciences	AGU 3

Online Measurements of Highly Oxidized Organics in the Gas and Particle phase during SOAS and SENEX	Felipe Lopez-Hilfiker	2:25 PM	2:40 PM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States III	Atmospheric Sciences	AGU 3
An Examination of Carbon Monoxide and Organic Aerosol Mass Sources in the Southeastern United States during the SENEX Project	Ann Middlebrook	2:40 PM	2:55 PM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States III	Atmospheric Sciences	AGU 3
Observations of BrO Using Limb Scanning DOAS During the 2013 NOMADSS Campaign	James Festa	2:55 PM	3:10 PM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States III	Atmospheric Sciences	AGU 3
Observations and Model Analysis of Enhanced Oxidized Mercury in the Free Troposphere during NOMADSS	Lynne Gratz	3:10 PM	3:25 PM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States III	Atmospheric Sciences	AGU 3
Interpreting Aerosol Sources and Seasonality over the Southeast United States with the GEOS-Chem Model: Lessons from the SEAC^{4}rs Campaign	Sungshik Kim	3:25 PM	3:40 PM	Atmospheric Gas-Phase and Aerosol Chemistry over the Southeastern United States III	Atmospheric Sciences	AGU 3
Human drivers of variability in the atmospheric CO_2 growth rate	James Randerson	8:00 AM	8:15 AM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management I	Global Environmental Change	AGU 4
Recent Advances in Global and Regional Fire Monitoring with the Collection 6 MODIS Fire Products	Louis Giglio	8:15 AM	8:30 AM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management I	Global Environmental Change	AGU 4
Incorporating anthropogenic influences into fire probability models: Effects of development and climate change on fire activity in California	Michael Mann	8:30 AM	8:45 AM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management I	Global Environmental Change	AGU 4
The Influence of Fuelbed Physical Properties on Biomass Burning Emissions	Shawn Urbanski	8:45 AM	9:00 AM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management I	Global Environmental Change	AGU 4

CALIOP-derived Smoke Plume Injection Height	Amber Soja	9:00 AM	9:15 AM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management I	Global Environmental Change	AGU 4
Implications of the Temporal Resolution of Fire Emissions on Direct and Indirect Aerosol Effects	Anton Darmenov	9:15 AM	9:30 AM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management I	Global Environmental Change	AGU 4
Large-Scale Forest Responses to Fire in Amazonia	Ann Carla Staver	9:30 AM	9:45 AM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management I	Global Environmental Change	AGU 4
Climatic Controls of Wildfire in the Boreal Forest and Arctic Tundra Biomes across Multiple Spatial and Temporal Scales	Adam Young	9:45 AM	10:00 AM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management I	Global Environmental Change	AGU 4
Wildfire Risk Management: Challenges and Opportunities	Matthew Thompson	10:20 AM	10:35 AM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management II	Global Environmental Change	AGU 4
An Emerging Role for Numerical Modelling in Wildfire Behavior Research: Explorations, Explanations, and Hypothesis Development	Rodman Linn	10:35 AM	10:50 AM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management II	Global Environmental Change	AGU 4
Forest Management and the Evolution of Project Design in Dynamic Wildland Urban Interface Fire Environments	Scott Conway	10:50 AM	11:05 AM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management II	Global Environmental Change	AGU 4
Analyses of fire growth and behavior using new VIIRS 375 m active fire data and a coupled weather-fire model (CAWFE)	Wilfrid Schroeder	11:05 AM	11:20 AM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management II	Global Environmental Change	AGU 4

Global Perspectives on Peat Fires	Adam Watts	11:20 AM	11:35 AM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management II	Global Environmental Change	AGU 4
Drivers of Recent Trends in African Landscape Fires	Niels Andela	11:35 AM	11:50 AM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management II	Global Environmental Change	AGU 4
Fuel for the Fire: Improved Understanding of Fire Behavior in Africa Based on Partitioned Herbaceous and Woody LAI from MODIS Satellite Data	Milkah Kahiu	11:50 AM	12:05 PM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management II	Global Environmental Change	AGU 4
Predicting the Spatial Variability of Fuel Moisture Content in Mountainous *Eucalyptus* Forests	Gary Sheridan	12:05 PM	12:20 PM	The Role of Fire in the Earth System: Understanding Drivers, Feedbacks, and Interactions with the Land and Atmosphere Toward Improved Fire Management II	Global Environmental Change	AGU 4
Large-Scale Controls on Drought World-Wide	Siegfried Schubert	8:00 AM	8:15 AM	Hydroclimatic Extremes: Drought II	Hydrology	AGU 2
Climatic Drought Conditions in US and India during the Past Century	Ximing Cai	8:15 AM	8:30 AM	Hydroclimatic Extremes: Drought II	Hydrology	AGU 2
Drought in California: It’s All about the Biggest Storms	Michael Dettinger	8:30 AM	8:45 AM	Hydroclimatic Extremes: Drought II	Hydrology	AGU 2
Stochastic analysis of California's recent precipitation drought in the context of the last one hundred years	Guido Salvucci	8:45 AM	9:00 AM	Hydroclimatic Extremes: Drought II	Hydrology	AGU 2
Exploring the linkage between drought, high temperatures, and hydrologic sensitivities: A case study of the 2012 Great Plains drought.	Ben Livneh	9:00 AM	9:15 AM	Hydroclimatic Extremes: Drought II	Hydrology	AGU 2
Anatomy of A Local Scale Drought	Ashok Mishra	9:15 AM	9:30 AM	Hydroclimatic Extremes: Drought II	Hydrology	AGU 2
Evaluating the Influence of Precipitation, Temperature, and Soil Moisture on Upper Colorado River Basin Streamflow and Drought	Connie Woodhouse	9:30 AM	9:45 AM	Hydroclimatic Extremes: Drought II	Hydrology	AGU 2
Trends and Sensitivities of Low Streamflow Extremes in Pacific Northwest	Patrick Kormos	9:45 AM	10:00 AM	Hydroclimatic Extremes: Drought II	Hydrology	AGU 2

LiDAR and IFSAR-Based Flood Inundation Model Estimates for Flood-Prone Areas of Afghanistan	William Johnson	1:40 PM	1:55 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response I	Hydrology	AGU 1
The Global Flood Awareness System (GloFAS) – Overview of Recent Developments	Feyera Hirpa	1:55 PM	2:10 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response I	Hydrology	AGU 1
Validation of a Global Hydrodynamic Flood Inundation Model	Paul Bates	2:10 PM	2:25 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response I	Hydrology	AGU 1
A new approach for improving flood model predictions based on the sequential assimilation of SAR-derived flood extent maps	Renaud Hostache	2:25 PM	2:40 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response I	Hydrology	AGU 1
Latest updates in global flood modelling: channel bifurcation and global river width database	Dai Yamazaki	2:40 PM	2:55 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response I	Hydrology	AGU 1
Development of an Operational Hydrological Monitoring and Seasonal Forecast System for China	Qiuhong Tang	2:55 PM	3:10 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response I	Hydrology	AGU 1
Assessing short to medium range ensemble streamflow forecast approaches in small to medium scale watersheds across CONUS	Andrew Wood	3:10 PM	3:25 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response I	Hydrology	AGU 1
Can atmospheric reanalysis datasets be used to reproduce flood characteristics?	Konstantinos Andreadis	3:25 PM	3:40 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response I	Hydrology	AGU 1
How to Generate More Reliable Seasonal Drought Forecasts and Analyze Drought Recovery Under Uncertainties?	Hamid Moradkhani	1:40 PM	1:55 PM	Hydroclimatic Extremes: Drought IV	Hydrology	AGU 4
Building Gateway Tools for Informed Decision Making: The Drought Risk Atlas and U.S. Drought Monitor	Mark Svoboda	1:55 PM	2:10 PM	Hydroclimatic Extremes: Drought IV	Hydrology	AGU 4
Merging Paleoclimatic Reconstructions, Observations, and Models to Refine Drought Risk Assessments	Jason Smerdon	2:10 PM	2:25 PM	Hydroclimatic Extremes: Drought IV	Hydrology	AGU 4
Instrumental and Reconstructed Water Year Precipitation for the Western United States: A 440-Year Perspective	Henry Diaz	2:25 PM	2:40 PM	Hydroclimatic Extremes: Drought IV	Hydrology	AGU 4

Evidence low-frequency climate variability mode in the North American Monsoon System as diagnosed by a WRF dynamically downscaled 20th-century reanalysis	Carlos Carrillo	2:40 PM	2:55 PM	Hydroclimatic Extremes: Drought IV	Hydrology	AGU 4
Impacts of Climate Change on Drought at Different Temporal Scales	Martijn Booij	2:55 PM	3:10 PM	Hydroclimatic Extremes: Drought IV	Hydrology	AGU 4
Changes in Concurrent Droughts and Heatwaves in the United States	Omid Mazdiyasni	3:10 PM	3:25 PM	Hydroclimatic Extremes: Drought IV	Hydrology	AGU 4
Drought Definitions Revisited	Anne Van Loon	3:25 PM	3:40 PM	Hydroclimatic Extremes: Drought IV	Hydrology	AGU 4
Short-Term Multi-Stage Stochastic Optimization of Hydropower Reservoirs Under Meteorological Uncertainty	Dirk Schwanenberg	4:00 PM	4:15 PM	Advances in Hydrometeorological Predictions and Applications I	Hydrology	AGU 4
A spatial regionalisation approach to reduce uncertainty in climate model bias correction	Fiona Johnson	4:15 PM	4:30 PM	Advances in Hydrometeorological Predictions and Applications I	Hydrology	AGU 4
Maximizing Statistical Power When Verifying Probabilistic Forecasts of Hydrometeorological Events	Caleb DeChant	4:30 PM	4:45 PM	Advances in Hydrometeorological Predictions and Applications I	Hydrology	AGU 4
Predicting the Hydrologic Response of the Columbia River System to Climate Change	Oriana Chegwidden	5:15 PM	5:30 PM	Advances in Hydrometeorological Predictions and Applications I	Hydrology	AGU 4
Did Climate Change Cause the 2012-2014 California Drought?	Yixin Mao	5:30 PM	5:45 PM	Advances in Hydrometeorological Predictions and Applications I	Hydrology	AGU 4
Very High Resolution Climate Change Projections for Hydrologic Impacts Assessments over the Lake Champlain Basin in Vermont	Jonathan Winter	5:45 PM	6:00 PM	Advances in Hydrometeorological Predictions and Applications I	Hydrology	AGU 4
Global River Flood Exposure Assessment Under Climate Change: How Many Asians Are Affected By Flood in the Future?	Youngjoo Kwak	4:00 PM	4:15 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response II	Hydrology	AGU 1
Multi-decadal Variability of Flood Risk in Southwestern Canadian Prairie Rivers as Characterized by the PDO and ENSO	Sunil Gurrapu	4:15 PM	4:30 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response II	Hydrology	AGU 1
What Matters? The Peak, the Volume and the Duration of Floods and Their Coincidence Across the Globe	Upmanu Lall	4:30 PM	4:45 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response II	Hydrology	AGU 1

Characterizing the impacts of water resources infrastructure, humans, and hydrologic nonstationarity on changes in flood risk across the Himalaya region	Desiree Tullos	4:45 PM	5:00 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response II	Hydrology	AGU 1
To act or not to act: Can flood risk data trigger humanitarian preparedness?	Erin Coughlan	5:00 PM	5:15 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response II	Hydrology	AGU 1
eWaterCycle: Live Demonstration of an Operational Hyper Resolution Global Hydrological Model	Niels Drost	5:15 PM	5:30 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response II	Hydrology	AGU 1
Hydroclimatological Aspects of the Extreme 2011 Assiniboine River Basin Flood	Julian Brimelow	5:30 PM	5:45 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response II	Hydrology	AGU 1
A First Comparison of Multiple Probability Hazard Outputs from Three Global Flood Models	Mark Trigg	5:45 PM	6:00 PM	Global Floods: Forecasting, Monitoring, Risk Assessment, and Socioeconomic Response II	Hydrology	AGU 1
Trends in Computing for Climate Research	Lawrence	1:40 PM	2:30 PM	Leptoukh Lecture	Earth and Space Science Informatics	AGU 6
Welcome to the Lorenz Lecture		2:40 PM	2:45 PM	Lorenz Lecture	Nonlinear Geophysics	AGU 6
Random musings on stochastics (Lorenz Lecture)	Demetris Koutsoyiannis	2:45 PM	3:35 PM	Lorenz Lecture	Nonlinear Geophysics	AGU 6
Concluding Remarks		3:35 PM	3:40 PM	Lorenz Lecture	Nonlinear Geophysics	AGU 6
Dynamics of large submarine landslide from analyzing the basal section of mass-transport deposits sampled by IODP Nankai Trough Submarine Landslide History (NanTroSLIDE)	Michael Strasser	8:00 AM	8:15 AM	Marine Geohazards I	Ocean Sciences	AGU 1
Submarine Landslides: A Multidisciplinary Crossroad	Lorena Moscardelli	8:15 AM	8:30 AM	Marine Geohazards I	Ocean Sciences	AGU 1
Effects of Stress on Failure Behavior of Shallow, Marine Muds from the Northern Gulf of Mexico	Brandon Dugan	8:30 AM	8:45 AM	Marine Geohazards I	Ocean Sciences	AGU 1
TWO-LAYER MODELS FOR LANDSLIDE-GENERATED TSUNAMIS	James Kirby	8:45 AM	9:00 AM	Marine Geohazards I	Ocean Sciences	AGU 1
Marine Neotectonic Investigations Using Integrated AUV and ROV Surveys	Charles Paull	9:00 AM	9:15 AM	Marine Geohazards I	Ocean Sciences	AGU 1

Tectonic geomorphology, deformation history, and slip-rate estimate along the Palos Verdes Fault, offshore Southern California	Daniel Brothers	9:15 AM	9:30 AM	Marine Geohazards I	Ocean Sciences	AGU 1
Triggering Mechanism of Subaqueous Sediment Density Flows on the Fraser Delta Slope: What Can be Gained through Continuous Observation from Venus?	Elizabeth Davidson	9:30 AM	9:45 AM	Marine Geohazards I	Ocean Sciences	AGU 1
The Initiation of Submarine Debris Flow after 2006 Pingtung Earthquake Offshore Southwestern Taiwan	Chih-Chieh Su	9:45 AM	10:00 AM	Marine Geohazards I	Ocean Sciences	AGU 1
Recurrence Periods of Earthquake-Induced Submarine Landslides	Rafael Rodríguez-Ochoa	10:20 AM	10:35 AM	Marine Geohazards II	Ocean Sciences	AGU 1
Characterising Active Fault Earthquake Sources Beneath the Coastal Environments of Christchurch and Wellington Cities, New Zealand, Using Seismic Reflection Profiles and Fault Displacement Analysis Techniques	Philip Barnes	10:35 AM	10:50 AM	Marine Geohazards II	Ocean Sciences	AGU 1
Geophysical Investigation of the Offshore Section of the Northern San Andreas Fault: Fault Zone Geometries, Shallow Deformation Patterns, and Holocene Sediment Distribution	Jeffrey Beeson	10:50 AM	11:05 AM	Marine Geohazards II	Ocean Sciences	AGU 1
Meter Accuracy Seafloor Geodesy using Repeated Multibeam Surveys	John DeSanto	11:05 AM	11:20 AM	Marine Geohazards II	Ocean Sciences	AGU 1
In what settings do turbidites provide a record of major earthquakes?	Esther Sumner	11:20 AM	11:35 AM	Marine Geohazards II	Ocean Sciences	AGU 1
History and mechanisms of the Fram Slide, Fram Strait	Judith Elger	11:35 AM	11:50 AM	Marine Geohazards II	Ocean Sciences	AGU 1
Shear-wave velocity of slope sediments near Hudson Canyon from analysis of ambient noise	Nathaniel Miller	11:50 AM	12:05 PM	Marine Geohazards II	Ocean Sciences	AGU 1
Development of Probabilistic Methods to Assess Meteotsunami Hazards	Eric Geist	12:05 PM	12:20 PM	Marine Geohazards II	Ocean Sciences	AGU 1
Evaluating the Ocean's Biological Carbon Pump	Steven Emerson	11:20 AM	12:20 PM	Sverdrup Lecture	Ocean Sciences	AGU 6
Introductory Remarks		10:20 AM	10:25 AM	Rosetta 2014 I	Planetary Sciences	AGU 2

Inventory of Volatiles in the Coma of Comet 67P/Churyumov-Gerasimenko from Rosetta ROSINA – An Overview of First Results	Kathrin Altwegg	10:25 AM	10:40 AM	Rosetta 2014 I	Planetary Sciences	AGU 2
Comet 67P/Churyumov-Gerasimenko - First Science Results by Rosetta/OSIRIS	Holger Sierks	10:40 AM	10:55 AM	Rosetta 2014 I	Planetary Sciences	AGU 2
The structure of cometary dust - first results from the MIDAS Atomic Force Microscope onboard Rosetta	Mark Bentley	10:55 AM	11:10 AM	Rosetta 2014 I	Planetary Sciences	AGU 2
Cosima - Cometary Dust Analysis Next to Comet 67P/Churyumov-Gerasimenko	Martin Hilchenbach	11:10 AM	11:25 AM	Rosetta 2014 I	Planetary Sciences	AGU 2
GIADA On-Board Rosetta: Early Dust Grain Detections and Dust Coma Characterization of Comet 67P/C-G	Alessandra Rotundi	11:25 AM	11:40 AM	Rosetta 2014 I	Planetary Sciences	AGU 2
Inferring the Properties of Ices on Comet 67P/Churyumov-Gerasimenko from the Microwave Instrument on the Rosetta Orbiter (MIRO) Measurements	Mathieu Choukroun	11:40 AM	11:55 AM	Rosetta 2014 I	Planetary Sciences	AGU 2
VIRTIS-Rosetta Observations of 67P/Churyumov-Gerasimenko Nucleus and Coma During the Mission Pre-Landing Phase.	Fabrizio Capaccioni	11:55 AM	12:10 PM	Rosetta 2014 I	Planetary Sciences	AGU 2
Comet 67P/CG compositional maps at regional scale in the VIS-IR from Rosetta/VIRTIS-M	Gianrico Filacchione	12:10 PM	12:20 PM	Rosetta 2014 I	Planetary Sciences	AGU 2
Overview of the Geomorphology of the Nucleus of Comet 67P/Churyumov-Gerasimenko from OSIRIS Observations	Olivier Groussin	1:40 PM	1:55 PM	Rosetta 2014 II	Planetary Sciences	AGU 2
Far-Ultraviolet Surface Reflectance of Comet 67P/Churyumov-Gerasimenko as Observed by the Alice Spectrograph on Rosetta	S Stern	1:55 PM	2:10 PM	Rosetta 2014 II	Planetary Sciences	AGU 2
Measurement of the Gas Environment of comet 67P/Churyumov-Gerasimenko with the Alice Far-ultraviolet Spectrograph on Rosetta	Paul Feldman	2:10 PM	2:25 PM	Rosetta 2014 II	Planetary Sciences	AGU 2
Early Activity of Churyumov-Gerasimenko: ROSINA/RTOF Results	Peter Wurz	2:25 PM	2:40 PM	Rosetta 2014 II	Planetary Sciences	AGU 2
Measuring Organic Matter with COSIMA on Board Rosetta	Christelle Briois	2:40 PM	2:55 PM	Rosetta 2014 II	Planetary Sciences	AGU 2

First Results at 67P/Churyumov-Gerasimenko With the Rosetta Plasma Consortium	Jean-Pierre Lebreton	2:55 PM	3:10 PM	Rosetta 2014 II	Planetary Sciences	AGU 2
Philae's landing site	Jens Biele	3:10 PM	3:25 PM	Rosetta 2014 II	Planetary Sciences	AGU 2
The Philae/Rosetta Lander at Comet 67P/Churyumov-Gerasimenko – First Result, on overview	Jean-Pierre Bibring	3:25 PM	3:40 PM	Rosetta 2014 II	Planetary Sciences	AGU 2
Preliminary results from CONSERT experiment on Rosetta mission.	Wlodek Kofman	4:00 PM	4:15 PM	Rosetta 2014 III	Planetary Sciences	AGU 2
First Results of Plasma And Magnetic Field Measurements Onboard The Rosetta Lander Philae at The Surface of Comet 67P/Churyumov–Gerasimenko	Hans Ulrich Auster	4:15 PM	4:30 PM	Rosetta 2014 III	Planetary Sciences	AGU 2
MUPUS on the Rosetta Lander Philae: First Results	Tilman Spohn	4:30 PM	4:45 PM	Rosetta 2014 III	Planetary Sciences	AGU 2
Mechanical Properties of the Surface Material of Comet 67P/Churyumov-Gerasimenko Measured By the Casse Instrument Onboard the Philae Lander	Martin Knapmeyer	4:45 PM	5:00 PM	Rosetta 2014 III	Planetary Sciences	AGU 2
Measuring the permittivity of the surface of the Churyumov-Gerasimenko nucleus: the PP-SESAME experiment on board the Philae/ROSETTA lander	Anthony Lethuillier	5:00 PM	5:15 PM	Rosetta 2014 III	Planetary Sciences	AGU 2
First Results from the ROLIS Experiment on Philae	Stefano Mottola	5:15 PM	5:30 PM	Rosetta 2014 III	Planetary Sciences	AGU 2
Tests with Ice Particles As Comet Analog Materials and Results of the Dust Impact Monitor on Board Rosetta's Lander Philae.	Alberto Flandes	5:30 PM	5:45 PM	Rosetta 2014 III	Planetary Sciences	AGU 2
Elemental Analysis of the Surface of Comet 67p/Churyumov-Gerasimenko with the Alpha Particle X-Ray Spectrometer APXS on the Rosetta Lander Philae: Preliminary Results	Goestar Klingelhoefer	5:45 PM	6:00 PM	Rosetta 2014 III	Planetary Sciences	AGU 2
Climate and Life: A Human Retrospective.	Peter deMenocal	10:20 AM	11:20 AM	Emiliani Lecture	Paleoceanography and Paleoclimatology	AGU 6
Introduction by Susan Avery		5:00 PM	5:05 PM	Nicolet Lecture	SPA-Aeronomy	AGU 6
Revelations in the Study of Geospace Variability	Maura Hagan	5:05 PM	5:50 PM	Nicolet Lecture	SPA-Aeronomy	AGU 6

Introduction by L. A. Fisk		4:00 PM	4:05 PM	Van Allen Lecture	SPA-Magnetospheric Physics	AGU 6
A Century after Van Allen's Birth: Conclusion of Reconnaissance of Radiation Belts in the Solar System	Stamatios Krimigis	4:05 PM	4:50 PM	Van Allen Lecture	SPA-Magnetospheric Physics	AGU 6
Latest Developments in Best Practices and Mitigation Efforts for Induced Seismicity Due to Fluid Injections and/or Withdrawal	Ernest Majer	4:00 PM	4:20 PM	Multidisciplinary Investigations to Understand and Mitigate the Effects of Induced Seismicity	Union	AGU 3
Increased Earthquake Rates in the Central and Eastern US Portend Higher Earthquake Hazards	Andrea Llenos	4:20 PM	4:40 PM	Multidisciplinary Investigations to Understand and Mitigate the Effects of Induced Seismicity	Union	AGU 3
Earthquake Hazard When the Rate Is Non-Stationary: The Challenge of the U. S. Midcontinent	William Ellsworth	4:40 PM	5:00 PM	Multidisciplinary Investigations to Understand and Mitigate the Effects of Induced Seismicity	Union	AGU 3
Multidisciplinary Approach to Identify and Mitigate the Hazard from Induced Seismicity in Oklahoma	Austin Holland	5:00 PM	5:20 PM	Multidisciplinary Investigations to Understand and Mitigate the Effects of Induced Seismicity	Union	AGU 3
Managing the Risk of Triggered Seismicity: Can We Identify (and Avoid) Potentially Active Faults? - A Practical Case Study in Oklahoma	Mark Zoback	5:20 PM	5:40 PM	Multidisciplinary Investigations to Understand and Mitigate the Effects of Induced Seismicity	Union	AGU 3
Connecting Wastewater Injection and Seismicity through Pore Pressure	Shemin Ge	5:40 PM	6:00 PM	Multidisciplinary Investigations to Understand and Mitigate the Effects of Induced Seismicity	Union	AGU 3

Legend
Atmospheric Sciences
Biogeosciences
Cryosphere
Education
Geochemistry, Mineralogy, Volcanology
Geochemistry, Mineralogy, Volcanology
Geochemistry, Mineralogy, Volcanology
Geodesy and Gravity
Geomagnetism and Paleomagnetism
Global Change

Hydrology
Hydrology, Cryosphere and Earth Surface (?)
Magnetospheric Physics
Natural Hazards
Nonlinear Geophysics
Ocean Science
Paleoceanography
Planetary Science
Pyscial Properties of Rocks
Science Policy
Seismology
Tectonophysics
Union

AGU Conference Schedule Thursday 12/18/2014

Presentation	Presenter	Start Pacific Time	End Pacific Time	Session Title	Primary Section / Focus Group	Channel
Welcoming Remarks		4:00 PM	4:01 PM	The Southern Ocean: Precipitation, Clouds, Aerosols, and the Air-Sea	Atmospheric Sciences	AGU 2
The cloudy nature of southern ocean preciptation	Graeme Stephens	4:01 PM	4:16 PM	The Southern Ocean: Precipitation, Clouds, Aerosols, and the Air-Sea	Atmospheric Sciences	AGU 2
The Evidence for Two-Way Feedbacks Between Cloud Processes and Large Scale Climate Variability over the Southern Oceans	David Thompson	4:16 PM	4:31 PM	The Southern Ocean: Precipitation, Clouds, Aerosols, and the Air-Sea Interface II	Atmospheric Sciences	AGU 2
The pristineness of the Southern Ocean aerosol system: a model view	Ken Carslaw	4:31 PM	4:46 PM	The Southern Ocean: Precipitation, Clouds, Aerosols, and the Air-Sea	Atmospheric Sciences	AGU 2
Marine biogenic aerosols explain seasonal and spatial patterns of Southern Ocean cloud droplet number concentration	Daniel McCoy	4:46 PM	5:01 PM	The Southern Ocean: Precipitation, Clouds, Aerosols, and the Air-Sea Interface II	Atmospheric Sciences	AGU 2
Observations of Clouds, Aerosols and Surface Energy Fluxes over the Northern and Southern Atlantic Ocean with the Oceanet-Atmosphere Platform Onboard RV Polarstern	Andreas Macke	5:01 PM	5:16 PM	The Southern Ocean: Precipitation, Clouds, Aerosols, and the Air-Sea Interface II	Atmospheric Sciences	AGU 2
A Mixed Phase Tale: New Ways of using in-situ cloud observations to reduce climate model biases in Southern Ocean	Andrew Gettelman	5:16 PM	5:31 PM	The Southern Ocean: Precipitation, Clouds, Aerosols, and the Air-Sea Interface II	Atmospheric Sciences	AGU 2
A new source of Southern Ocean and Antarctic aerosol from tropospheric polar cell chemistry of sea ice emissions	Ruhi Humphries	5:31 PM	5:46 PM	The Southern Ocean: Precipitation, Clouds, Aerosols, and the Air-Sea Interface II	Atmospheric Sciences	AGU 2
Linkages between Southern Ocean Cloud-Radiative Processes and the Large-Scale Southern Hemisphere Circulation, and Their Implications for Climate Model Projections	Kevin Grise	5:46 PM	6:01 PM	The Southern Ocean: Precipitation, Clouds, Aerosols, and the Air-Sea Interface II	Atmospheric Sciences	AGU 2
Microbial Communities: Tracing Growth Processes from Antarctic Lakes to Early Earth to Other Planets	Dawn Sumner	9:00 AM	10:00 AM	Sagan Lecture	Biogeosciences	AGU 6

A Thin-Plate (Shallow Shelf) Treatment of Viscoelastic Ice-Shelf Flexure with Applications	Douglas MacAyeal	8:00 AM	8:15 AM	Modeling of the Cryosphere: Glaciers and Ice Sheets II	Cryosphere	AGU 5
Constraints on Subglacial Conditions from Seismicity	Brad Lipovsky	8:15 AM	8:30 AM	Modeling of the Cryosphere: Glaciers and Ice Sheets II	Cryosphere	AGU 5
An Improved Model for Tidally-Modulated Grounding Line Migration	Victor Tsai	8:30 AM	8:45 AM	Modeling of the Cryosphere: Glaciers and Ice Sheets II	Cryosphere	AGU 5
Investigating the Flow Dynamics of Ice Shelves using Laboratory Experiments, Simple Theoretical Models and Geophysical Data Analysis	Martin Wearing	8:45 AM	9:00 AM	Modeling of the Cryosphere: Glaciers and Ice Sheets II	Cryosphere	AGU 5
OCEAN TIDAL INFLUENCE ON SUBGLACIAL HYDROLOGY AND ITS EFFECTS ON ICE SLIP	Timothy Creyts	9:00 AM	9:15 AM	Modeling of the Cryosphere: Glaciers and Ice Sheets II	Cryosphere	AGU 5
Mass conservation in free-boundary ice dynamics models	Ed Bueler	9:15 AM	9:30 AM	Modeling of the Cryosphere: Glaciers and Ice Sheets II	Cryosphere	AGU 5
Proposed Design of the Third Marine Ice Sheet Model Intercomparison Exercise	Stephen Cornford	9:30 AM	9:45 AM	Modeling of the Cryosphere: Glaciers and Ice Sheets II	Cryosphere	AGU 5
Glacier response to climate perturbations: an accurate linear geometric model	Gerard Roe	9:45 AM	10:00 AM	Modeling of the Cryosphere: Glaciers and Ice Sheets II	Cryosphere	AGU 5
Coupled atmospheric-hydrological modelling of the Canadian Rockies rain-on-snow flood of June 2013	Alain Pietroniro	8:00 AM	8:15 AM	Snow Hydrology: Flooding, Modeling, and Vegetation Interactions I	Cryosphere	AGU 2
Impact of Increasing Rainfall and Rain-on-Snow on Flood Generation in a Canadian Prairie Catchment	Stacey Dumanski	8:15 AM	8:30 AM	Snow Hydrology: Flooding, Modeling, and Vegetation Interactions I	Cryosphere	AGU 2
How Important Is Snowmelt Input for Runoff during Rain-on-Snow Floods over the Western U.S. Mountains?	Nicholas Wayand	8:30 AM	8:45 AM	Snow Hydrology: Flooding, Modeling, and Vegetation Interactions I	Cryosphere	AGU 2
Correcting Inadequate Model Snow Process Descriptions Dramatically Improves Mountain Hydrology Simulations	John Pomeroy	8:45 AM	9:00 AM	Snow Hydrology: Flooding, Modeling, and Vegetation Interactions I	Cryosphere	AGU 2
The Need for Modernized Operational Snow Models: A Tale of Two Years	Adam Winstral	9:00 AM	9:15 AM	Snow Hydrology: Flooding, Modeling, and Vegetation Interactions I	Cryosphere	AGU 2
Forests, Snow, and Change: How Modeling History Is Shaping Our Predictions for the Future	Jessica Lundquist	9:15 AM	9:30 AM	Snow Hydrology: Flooding, Modeling, and Vegetation Interactions I	Cryosphere	AGU 2

Ray Trace Modeling to Determine Optimal Forest Canopy Gap Size for Reduced Solar Irradiance During Snowmelt: Field Verification and Continental Scale Application	Keith Musselman	9:30 AM	9:45 AM	Snow Hydrology: Flooding, Modeling, and Vegetation Interactions I	Cryosphere	AGU 2
Long-wave emission from trees in snow-covered Arctic boreal forests: measurement and modelling	Nick Rutter	9:45 AM	10:00 AM	Snow Hydrology: Flooding, Modeling, and Vegetation Interactions I	Cryosphere	AGU 2
Living Landscapes: Present and Past Interactions Between Coastal Sediments and Biota	Giulio Mariotti	10:20 AM	12:20 PM	Sharp Lecture	Earth and Planetary Surface Processes	AGU 5
Untangling ENSO Precursors	Kathleen Pegion	10:20 AM	10:30 AM	ENSO: Precursors and Expected Change	Global Environmenta	AGU 4
Does Recent Change in Tropical Pacific Forecas	Matthew Newman	10:30 AM	10:45 AM	ENSO: Precursors and Expected Change	Global Environmenta	AGU 4
Study on the precursor of frequent occurrence	Sang-Wook Yeh	10:45 AM	10:55 AM	ENSO: Precursors and Expected Change	Global Environmenta	AGU 4
Understanding ENSO precursors from a Linear	Antonietta Capotondi	10:55 AM	11:05 AM	ENSO: Precursors and Expected Change II	Global Environmenta	AGU 4
Optimal Initial Conditions and Stochastic Forcir	Daniel Vimont	11:05 AM	11:20 AM	ENSO: Precursors and Expected Change	Global Environmenta	AGU 4
Ocean-atmosphere mechanisms explaining the	Joan Ballester Claramunt	11:20 AM	11:30 AM	ENSO: Precursors and Expected Change II	Global Environmenta	AGU 4
Towards Understanding El Niño Complexity an	Fei-Fei Jin	11:30 AM	11:45 AM	ENSO: Precursors and Expected Change	Global Environmenta	AGU 4
El Nino Since the Early-1990s Climate Shift in th	Jin-Yi Yu	11:45 AM	12:00 PM	ENSO: Precursors and Expected Change	Global Environmenta	AGU 4
Intensified ENSO-Driven Precipitation Teleconr	Celine Bonfils	12:00 PM	12:10 PM	ENSO: Precursors and Expected Change	Global Environmenta	AGU 4
ENSO and its Precursor simulated by UNICON v	Sungsu Park	12:10 PM	12:20 PM	ENSO: Precursors and Expected Change	Global Environmenta	AGU 4
Introduction by Prof. Malcolm Hughes		1:40 PM	1:42 PM	Schneider Lecture and the Tyndall History of Global Environmental Change	Global Environmenta	AGU 5
Schneider lecture: From climate change impact	Christopher Field	1:42 PM	2:32 PM	Schneider Lecture and the Tyndall History of Global Environmental Change	Global Environmenta	AGU 5
Questions for Dr. Field		2:32 PM	2:40 PM	Schneider Lecture and the Tyndall History of Global Environmental Change	Global Environmenta	AGU 5
Introduction by Dr. Rong Fu		2:40 PM	2:42 PM	Schneider Lecture and the Tyndall History of Global Environmental Change	Global Environmenta	AGU 5
A PERSPECTIVE ON ACCELERATING CHANGE	Kelly Redmond	2:42 PM	3:32 PM	Schneider Lecture and the Tyndall History of Global Environmental Change	Global Environmenta	AGU 5
Questions for Dr. Redmond		3:32 PM	3:40 PM	Schneider Lecture and the Tyndall History of Global Environmental Change	Global Environmenta	AGU 5
Our Globe Vs. Our Brain: Modeling and Unders	Stephan Lewandowsky	1:40 PM	1:55 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 2
Improving Communication About Potentially C	Robert Ward	1:55 PM	2:10 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 2
Quantifying Climate Change Impacts on Infrast	Katharine Hayhoe	2:10 PM	2:25 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 2

Sink or Swim: Adapting to the Hydrologic Impa	Peter Gleick	2:25 PM	2:40 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 2
Recent advances in research on climate and hu	Solomon Hsiang	2:40 PM	2:55 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 2
Scientists Are from Mars, Laypeople Are from V	John Cook	2:55 PM	3:10 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 2
Applying the Science of Science Communicatio	Geoffrey Haines-Stiles	3:10 PM	3:25 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 2
Paper 5944 Changing Climates @ Colorado Sta	SueEllen Campbell	3:25 PM	3:40 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 2
Political Challenges and Opportunities to Clima	Andrew Weaver	4:00 PM	4:15 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 4
Addressing Global Warming, Air Pollution, Ener	Mark Jacobson	4:15 PM	4:30 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 4
Regional Renewable Energy Cooperatives	Paul Hazendonk	4:30 PM	4:45 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 4
Climate Risk Management in the Anthropocene	Klaus Keller	4:45 PM	5:00 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 4
Managing U.S. climate risk through mitigation:	Robert Kopp	5:00 PM	5:15 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 4
A Multi-Model Framework to Achieve Consiste	Marcus Sarofim	5:15 PM	5:30 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 4
A new large initial condition ensemble to asses	Benjamin Sanderson	5:30 PM	5:45 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 4
The Feasibility of Avoiding Future Climate Impa	Jason Lowe	5:45 PM	6:00 PM	Climate Change: Impacts, Resilience, Vulnerability, Adaptation, and	Global Environmenta	AGU 4
Model averaging methods to merge statistical and dynamic seasonal streamflow forecasts in Australia	Andrew Schepen	5:00 PM	5:15 PM	Advances in Hydrometeorological Predictions and Applications I	Hydrology	AGU 1
Effect of Reservoir-Caprock Interface Dip and Circulation of Produced Fluid on CO_2-Based Geothermal Heat Extraction from Saline Aquifers	Nagasree Garapati	8:00 AM	8:20 AM	Conventional and Enhanced Geothermal Systems: Characterization, Integration, Stimulation, Simulation, and Induced Seismicity I	Hydrology	AGU 1
Multi-Fluid Geo-Energy Systems for Bulk and Thermal Energy Storage and Dispatchable Renewable and Low-Carbon Electricity	Thomas Buscheck	8:20 AM	8:40 AM	Conventional and Enhanced Geothermal Systems: Characterization, Integration, Stimulation, Simulation, and Induced Seismicity I	Hydrology	AGU 1
A New Concept for Geothermal Energy Extraction: The Radiator – Enhanced Geothermal System	Markus Hilpert	8:40 AM	9:00 AM	Conventional and Enhanced Geothermal Systems: Characterization, Integration, Stimulation, Simulation, and Induced Seismicity I	Hydrology	AGU 1

Micro-earthquake Analysis for Reservoir Properties at the Prati-32 Injection Test, The Geysers, California	Lawrence Hutchings	9:00 AM	9:20 AM	Conventional and Enhanced Geothermal Systems: Characterization, Integration, Stimulation, Simulation, and Induced Seismicity I	Hydrology	AGU 1
Sensitivity Studies of 3D Reservoir Simulation at the I-Lan Geothermal Area in Taiwan Using TOUGH2	Chia-Wei Kuo	9:20 AM	9:40 AM	Conventional and Enhanced Geothermal Systems: Characterization, Integration, Stimulation, Simulation, and Induced Seismicity I	Hydrology	AGU 1
Uplift Around the Geothermal Power Plant of Landau (Germany) Observed from InSAR Monitoring	Christine Heimlich	9:40 AM	10:00 AM	Conventional and Enhanced Geothermal Systems: Characterization, Integration, Stimulation, Simulation, and Induced Seismicity I	Hydrology	AGU 1
Understanding How Snowmelt Manifests in Streamflow	Ross Woods	10:20 AM	10:35 AM	Advancing Hydrologic Predictions in Snow- and Glacier-Fed River Systems I	Hydrology	AGU 2
Differential Effects of Wildfire and Forest Harvest on Snow Hydrology in the Oregon Cascades	Anne Nolin	10:35 AM	10:50 AM	Advancing Hydrologic Predictions in Snow- and Glacier-Fed River Systems I	Hydrology	AGU 2
Simulating the spatial distribution of snow pack and snow melt runoff with different snow melt algorithms in a physics based watershed model	Michael Follum	10:50 AM	11:05 AM	Advancing Hydrologic Predictions in Snow- and Glacier-Fed River Systems I	Hydrology	AGU 2
Integration of Snow Data from Remote Sensing into Operational Streamflow Forecasting in the Western United States	Stacie Bender	11:05 AM	11:20 AM	Advancing Hydrologic Predictions in Snow- and Glacier-Fed River Systems I	Hydrology	AGU 2
A Variational Ensemble Streamflow Prediction Assessment Approach for Quantifying Streamflow Forecast Skill Elasticity	Andrew Wood	11:20 AM	11:35 AM	Advancing Hydrologic Predictions in Snow- and Glacier-Fed River Systems I	Hydrology	AGU 2
Increases in River Runoff Projected for High Mountain Asia's River Basins during the 21st Century	Wouter Immerzeel	11:35 AM	11:50 AM	Advancing Hydrologic Predictions in Snow- and Glacier-Fed River Systems I	Hydrology	AGU 2
Peak water from glaciers: advances and challenges in a global perspective	Matthias Huss	11:50 AM	12:05 PM	Advancing Hydrologic Predictions in Snow- and Glacier-Fed River Systems I	Hydrology	AGU 2
Society – Cryospheric Reservoirs – Society	Georg Kaser	12:05 PM	12:20 PM	Advancing Hydrologic Predictions in Snow- and Glacier-Fed River Systems I	Hydrology	AGU 2
The Precambrian Singo Igneous Complex (SIC), Uganda Revealed As a Mineralized Nested Ring Complex Using High Resolution Airborne Radiometric and Magnetic Data.	Estella Atekwana	10:20 AM	10:35 AM	Advances in Exploration Geophysics III	Near Surface Geophysics	AGU 1

Potential for a significant deep basin geothermal system in Tintic Valley, Utah	Christian Hardwick	10:35 AM	10:50 AM	Advances in Exploration Geophysics III	Near Surface Geophysics	AGU 1
A New Self Constrained Inversion Method of Potential Fields Based on Probability Tomography	Shida Sun	10:50 AM	11:05 AM	Advances in Exploration Geophysics III	Near Surface Geophysics	AGU 1
Recent Advancements in Full Tensor Gravity Gradiometry for Resource Exploration: A Case study from West Africa Birmian Greenstone Belt	James Mataragio	11:05 AM	11:20 AM	Advances in Exploration Geophysics III	Near Surface Geophysics	AGU 1
Kalman Filters in Improving the Signal to Noise Ratio of Full Tensor Gravity Gradiometry Data	Mahnaz Sepehrmanesh	11:20 AM	11:35 AM	Advances in Exploration Geophysics III	Near Surface Geophysics	AGU 1
A 3D homogenous locator for magnetic anomalous sources: algorithm development and testing	Xiaobing Zhou	11:35 AM	11:50 AM	Advances in Exploration Geophysics III	Near Surface Geophysics	AGU 1
Three Algorithms of Magnetization Vector Inversion for Magnetic Data	Shuang Liu	11:50 AM	12:05 PM	Advances in Exploration Geophysics III	Near Surface Geophysics	AGU 1
Magnetic evidence for lightning strikes on mountains: a case study from Lesotho	Susan Webb	12:05 PM	12:20 PM	Advances in Exploration Geophysics III	Near Surface Geophysics	AGU 1
Mixed Layer Dynamics and the Diurnal Cycle in the Equatorial Atlantic Ocean	Jacob Wenegrat	8:00 AM	8:15 AM	Equatorial Dynamics of the Atmosphere and Oceans I	Ocean Sciences	AGU 4
Extratropical Influence on Tropical Intraseasonal Variability	Nicholas Hall	8:15 AM	8:30 AM	Equatorial Dynamics of the Atmosphere and Oceans I	Ocean Sciences	AGU 4
MJO: Asymptotically-Nondivergent Nonlinear Wave?: A Review	Jun-Ichi Yano	8:30 AM	8:45 AM	Equatorial Dynamics of the Atmosphere and Oceans I	Ocean Sciences	AGU 4
Pca's with Physics Iiustrating ENSO Air Ocean Interactions	James O'Brien	8:45 AM	9:00 AM	Equatorial Dynamics of the Atmosphere and Oceans I	Ocean Sciences	AGU 4
Balanced and Transient Dynamics of Deep and Shallow Hadley Circulations	Alex Gonzalez	9:00 AM	9:15 AM	Equatorial Dynamics of the Atmosphere and Oceans I	Ocean Sciences	AGU 4
The Vortex Dynamics of Tropical Instability Waves and their Impacts on Equatorial Mixing in a Regional Ocean Model	Ryan Holmes	9:15 AM	9:30 AM	Equatorial Dynamics of the Atmosphere and Oceans I	Ocean Sciences	AGU 4
Planetary Wave Signatures Across Three Oceans	Madeleine Youngs	9:30 AM	9:45 AM	Equatorial Dynamics of the Atmosphere and Oceans I	Ocean Sciences	AGU 4
Who Killed the 2014 El Niño (and is it Really Dead?)	Michael McPhaden	9:45 AM	10:00 AM	Equatorial Dynamics of the Atmosphere and Oceans I	Ocean Sciences	AGU 4
Maintenance of Surface Current Balance by Field-Aligned Thermoelectric Currents at Astronomical Bodies: Cassini at Rhea	Benjamin Teolis	10:20 AM	10:35 AM	Evolutions, Interactions, and Origins of Outer Planet Satellites I	Planetary Sciences	AGU 3

Cassini ENA Observations of an Asymmetric Europa Torus with Indications of Dynamics	Pontus Brandt	10:35 AM	10:50 AM	Evolutions, Interactions, and Origins of Outer Planet Satellites I	Planetary Sciences	AGU 3
The State of the Plasma Sheet and Atmosphere at Europa	Donald Shemansky	10:50 AM	11:05 AM	Evolutions, Interactions, and Origins of Outer Planet Satellites I	Planetary Sciences	AGU 3
Helene: A Plastic Model	Orkan Umurhan	11:05 AM	11:20 AM	Evolutions, Interactions, and Origins of Outer Planet Satellites I	Planetary Sciences	AGU 3
Analysis of very-high-resolution Galileo images of Europa: Implications for small-scale structure and surface evolution	Erin Leonard	11:20 AM	11:35 AM	Evolutions, Interactions, and Origins of Outer Planet Satellites I	Planetary Sciences	AGU 3
Specular Reflections from Titan's Equatorial Region: Solving the Decade Old Mystery	Jason Hofgartner	11:35 AM	11:50 AM	Evolutions, Interactions, and Origins of Outer Planet Satellites I	Planetary Sciences	AGU 3
Rheology and Thermal State of Titan's Crust: Potential Role of Methane Clathrates	Debajyoti Basu Sarkar	11:50 AM	12:05 PM	Evolutions, Interactions, and Origins of Outer Planet Satellites I	Planetary Sciences	AGU 3
Magnetospheric Interaction at Jupiter's Galilean Moons Io, Europa, Ganymede, Callisto: Galileo in-Situ Measurements Compared with Simulation Results	Norbert Krupp	12:05 PM	12:20 PM	Evolutions, Interactions, and Origins of Outer Planet Satellites I	Planetary Sciences	AGU 3
On the Ways That Planetesimals Were Analogs to Terrestrial Planets	Linda Elkins-Tanton	4:00 PM	4:15 PM	Accretion, Differentiation, and Early Planetary Evolution I	Planetary Sciences	AGU 3
Mixing of Impactor Liquid Cores and Planetesimals Constrained by Single Silicate Crystal Magnetism	Richard Bono	4:15 PM	4:30 PM	Accretion, Differentiation, and Early Planetary Evolution I	Planetary Sciences	AGU 3
Making an Iron Planet: The Case for Repeated Hit and Run Collisions	Erik Asphaug	4:30 PM	4:45 PM	Accretion, Differentiation, and Early Planetary Evolution I	Planetary Sciences	AGU 3
Investigating Planetary Volatile Accretion Mechanisms Using the Halogens	Christopher Ballentine	4:45 PM	5:00 PM	Accretion, Differentiation, and Early Planetary Evolution I	Planetary Sciences	AGU 3
Selenium isotopes indicate a chondritic origin of volatile elements on Earth	Hauke Vollstaedt	5:00 PM	5:15 PM	Accretion, Differentiation, and Early Planetary Evolution I	Planetary Sciences	AGU 3
Partial Atmospheric Loss and Partial Mantle Melting during the Giant Impact Stage of Planet Formation	Sarah Stewart	5:15 PM	5:30 PM	Accretion, Differentiation, and Early Planetary Evolution I	Planetary Sciences	AGU 3
Metal-Silicate Equilibration at Super-Liquidus Temperatures During Core Formation	John Hernlund	5:30 PM	5:45 PM	Accretion, Differentiation, and Early Planetary Evolution I	Planetary Sciences	AGU 3
Combining N-body accretion simulations with partitioning experiments in a statistical model of terrestrial planet accretion and core formation	Rebecca Fischer	5:45 PM	6:00 PM	Accretion, Differentiation, and Early Planetary Evolution I	Planetary Sciences	AGU 3

Characterizing the Variability of Supercycles on the Mentawai Segment of the Sunda Megathrust and Implications for Global Fault Behavior	Belle Philibosian	4:00 PM	4:15 PM	Science and Societal Lessons from a Decade of Giant Megathrust Earthquakes II	Seismology	AGU 7 ?
Constraining Paleoearthquake Slip Distributions with Coral Microatolls	Anthony Lindsay	4:15 PM	4:30 PM	Science and Societal Lessons from a Decade of Giant Megathrust	Seismology	AGU 7 ?
Paleoseismic Records of Multiple Great Earthquakes from the Subduction Zones of Sumatra, Chile, and Alaska	Tina Dura	4:30 PM	4:45 PM	Science and Societal Lessons from a Decade of Giant Megathrust Earthquakes II	Seismology	AGU 7 ?
Deterministic and Nondeterministic Behavior of Earthquakes and Hazard Mitigation Strategy	Hiroo Kanamori	4:45 PM	5:00 PM	Science and Societal Lessons from a Decade of Giant Megathrust Earthquakes II	Seismology	AGU 7 ?
Influence of the Great Megathrust Earthquakes of the Past Decade on Risk Assessment and Outreach Programs	Lorinda Dengler	5:00 PM	5:15 PM	Science and Societal Lessons from a Decade of Giant Megathrust Earthquakes II	Seismology	AGU 7 ?
Counter intuitive Behavior of Subduction Zones: Weak Faults Rupture, Strong Faults Creep	Kelin Wang	5:15 PM	5:30 PM	Science and Societal Lessons from a Decade of Giant Megathrust Earthquakes II	Seismology	AGU 7 ?
Localized Fault Slip to the Trench in the 2010 Maule, Chile M_w 8.8 Earthquake from Joint Inversion of High Rate GPS, Teleseismic Body Waves, InSAR, and Tsunami Observations	Han Yue	5:30 PM	5:45 PM	Science and Societal Lessons from a Decade of Giant Megathrust Earthquakes II	Seismology	AGU 7 ?
Modeling Afterslip of the 2010 M_w 7.8 Mentawai Tsunami Earthquake Using Stress driven Rate and State Frictional Slip	Lujia Feng	5:45 PM	6:00 PM	Science and Societal Lessons from a Decade of Giant Megathrust Earthquakes II	Seismology	AGU 7 ?
Presentation of the Jason Morgan Early Career Award		5:00 PM	5:05 PM	The Birch Lecture	Tectonophysics	AGU 6
On the Origin of Plate Tectonics	David Bercovici	5:05 PM	6:00 PM	The Birch Lecture	Tectonophysics	AGU 6
Observations of the Summertime Boundary Layer over the Ross Ice Shelf, Antarctica Using SUMO UAVs	Melissa Nigro	8:00 AM	8:15 AM	Use of Unmanned Aircraft Systems (UAS) in Observing the Earth System	Union	AGU 3
NOAA Utilization of the Global Hawk Unmanned Aircraft for Atmospheric Research and Forecast Improvement	Gary Wick	8:15 AM	8:30 AM	Use of Unmanned Aircraft Systems (UAS) in Observing the Earth System	Union	AGU 3
UAS-Based Radar Sounding of Ice	Richard Hale	8:30 AM	8:45 AM	Use of Unmanned Aircraft Systems (UAS) in Observing the Earth System	Union	AGU 3

Recent Advances in the Tempest UAS for In-Situ Measurements in Highly-Dynamic Environments	Brian Argrow	8:45 AM	9:00 AM	Use of Unmanned Aircraft Systems (UAS) in Observing the Earth System	Union	AGU 3
Greenhouse Gas Sensing Using Small Unmanned Aerial Systems – Field Experiment Results and Future Directions	Andrew Aubrey	9:00 AM	9:15 AM	Use of Unmanned Aircraft Systems (UAS) in Observing the Earth System	Union	AGU 3
Using Small Unmanned Aerial Systems to Advance Hydrological Models in Coastal Watersheds	Robert Moorhead	9:15 AM	9:30 AM	Use of Unmanned Aircraft Systems (UAS) in Observing the Earth System	Union	AGU 3
Modeling Stratigraphic Architecture of Deep-water Deposits Using a Small Unmanned Aircraft: Neogene Thin-bedded Turbidites, East Coast Basin, New Zealand	Nora Nieminski	9:30 AM	9:45 AM	Use of Unmanned Aircraft Systems (UAS) in Observing the Earth System	Union	AGU 3
Small Unmanned Aerial Vehicles in coastal areas: lessons learned from applications in Liguria, NW Mediterranean.	Alessio Rovere	9:45 AM	10:00 AM	Use of Unmanned Aircraft Systems (UAS) in Observing the Earth System	Union	AGU 3
The Long-Term Agro-Ecosystem Research (LTAR) Network: A New In-Situ Data Network For Agriculture	Mark Walbridge	1:40 PM	1:55 PM	Long-Term In Situ Data Networks	Union	AGU 3
FROM THE PAST TO THE FUTURE: BUILDING A NEW CONTINENTAL SCALE LONG-TERM IN-SITU DATA NETWORK	Jeff Taylor	1:55 PM	2:10 PM	Long-Term In Situ Data Networks	Union	AGU 3
Long Term Eddy Covariance Networks – When Collaboration Works: An Example from Ameriflux, ICOS and Fluxnet	Dario Papale	2:10 PM	2:25 PM	Long-Term In Situ Data Networks	Union	AGU 3
Insights and Challenges to Integrating Data from Diverse Ecological Networks	Debra Peters	2:25 PM	2:40 PM	Long-Term In Situ Data Networks	Union	AGU 3
Building Capacity for a Long-Term, In-Situ, National-Scale Phenology Monitoring Network: Successes, Challenges and Lessons Learned	Jake Weltzin	2:40 PM	2:55 PM	Long-Term In Situ Data Networks	Union	AGU 3
The USDA-ARS Experimental Watershed Network – Evolution and Lessons Learned	David Goodrich	2:55 PM	3:10 PM	Long-Term In Situ Data Networks	Union	AGU 3
Interfacing with in-Situ Data Networks during the Arctic Boreal Vulnerability Experiment (ABoVE)	Peter Griffith	3:10 PM	3:25 PM	Long-Term In Situ Data Networks	Union	AGU 3

What A Long Strange Trip It's Been: Lessons Learned From NASA EOS, LTER, NEON, CZO And On To The Future With Sustainable Research Networks	Mark Williams	3:25 PM	3:40 PM	Long-Term In Situ Data Networks	Union	AGU 3
Dramatic increases in likelihoods of extreme seasonal temperatures since 2003.	Peter Stott	4:00 PM	4:15 PM	The Attribution of Extreme Weather Events and Their Impacts to External Drivers of Climate Change	Union	AGU 1
Assessing Extreme Events for Anthropogenic Influence: Examples of Recent Cases for Australian Temperatures, U.S. Precipitation, and Hurricane Sandy	Thomas Knutson	4:15 PM	4:30 PM	The Attribution of Extreme Weather Events and Their Impacts to External Drivers of Climate Change	Union	AGU 1
Relevance of land forcings and feedbacks in the attribution of climate extremes	Sonia Seneviratne	4:30 PM	4:45 PM	The Attribution of Extreme Weather Events and Their Impacts to External Drivers of Climate Change	Union	AGU 1
Attribution of low precipitation in California during the winter of 2013-2014	Roberto Mera	4:45 PM	5:00 PM	The Attribution of Extreme Weather Events and Their Impacts to External Drivers of Climate Change	Union	AGU 1
Ethical Implications of Probabilistic Event Attribution for Policy Discussions about Loss and Damage	Friederike Otto	5:00 PM	5:15 PM	The Attribution of Extreme Weather Events and Their Impacts to External Drivers of Climate Change	Union	AGU 1
Framing Extreme Event Attribution from the Bottom up – an Enquiry into the Social Representations of key stakeholders, of the Press and of Climate Scientists.	Jean-Paul Vanderlinden	5:15 PM	5:30 PM	The Attribution of Extreme Weather Events and Their Impacts to External Drivers of Climate Change	Union	AGU 1
Can we attribute changes in risk to anthropogenic emissions?	Dáithí Stone	5:30 PM	5:45 PM	The Attribution of Extreme Weather Events and Their Impacts to External Drivers of Climate Change	Union	AGU 1
Educating Local Audiences about Climate Change	Heidi Cullen	5:45 PM	6:00 PM	The Attribution of Extreme Weather Events and Their Impacts to External Drivers of Climate Change	Union	AGU 1
Storage and Transport of Hydrocarbons in Organic-Rich Mudstones	Robert Kleinberg	1:40 PM	1:55 PM	Shale Reservoir Science and Technology I	Volcanology, Geochemistry and	AGU 1
Prediction of Shale Transport Properties Using the Lattice Boltzmann Method: Permeability and Effective Knudsen Diffusivity	Qinjun Kang	1:55 PM	2:10 PM	Shale Reservoir Science and Technology I	Volcanology, Geochemistry and Petrology	AGU 1
Mechanical properties of organic matter in shales mapped at the nanometer scale	Moshe Eliyahu	2:10 PM	2:25 PM	Shale Reservoir Science and Technology I	Volcanology, Geochemistry and	AGU 1

Monitoring hydraulic fracturing with seismic emission volume	Fenglin Niu	2:25 PM	2:40 PM	Shale Reservoir Science and Technology I	Volcanology, Geochemistry and	AGU 1
Variations of Carbon Isotopes during Shale Gas Production from the Horn River Basin, British Columbia, Canada	Giselle Norville	2:40 PM	2:55 PM	Shale Reservoir Science and Technology I	Volcanology, Geochemistry and Petrology	AGU 1
Minimizing the water and air impacts of unconventional energy extraction	Robert Jackson	2:55 PM	3:10 PM	Shale Reservoir Science and Technology I	Volcanology, Geochemistry and	AGU 1
Trace Hydrophobic Organic Chemicals Present in Pennsylvania Groundwater are Correlated with Geogenic Brines rather than Hydraulic Fracturing Active Zones	Brian Drollette	3:10 PM	3:25 PM	Shale Reservoir Science and Technology I	Volcanology, Geochemistry and Petrology	AGU 1
Evaluating the Influence of Chemical Reactions on Wellbore Cement Integrity and Geochemical Tracer Behavior in Hydraulically-Fractured Shale Formations	Circe Verba	3:25 PM	3:40 PM	Shale Reservoir Science and Technology I	Volcanology, Geochemistry and Petrology	AGU 1
A Chlorine-Centric Perspective on Fluid-Mediated Processes at Convergent Plate Boundaries	Jane Selverstone	4:00 PM	4:50 PM	Daly Lecture	Volcanology, Geochemistry and Petrology	AGU 6

Legend
Atmospheric Sciences
Biogeosciences
Cryosphere
Education
Geochemistry, Mineralogy, Volcanology
Geochemistry, Mineralogy, Volcanology
Geochemistry, Mineralogy, Volcanology
Geodesy and Gravity
Geomagnetism and Paleomagnetism
Global Change
Hydrology
Hydrology, Cryosphere and Earth Surface (?)
Magnetospheric Physics
Natural Hazards
Nonlinear Geophysics

Ocean Science
Paleoceanography
Planetary Science
Pyscial Properties of Rocks
Science Policy
Seismology
Tectonophysics
Union

AGU Conference Schedule Friday 12/19/2014

Presentation	Presenter	Start	End	Session Title	Primary Section / Focus Group	Channel
Evaluation of Tropical Biomass Burning Emissions using a Global Aerosol Model: Implications for Climate and Air Quality	Carly Reddington	8:00 AM	8:15 AM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies I	Atmospheric Sciences	NA
Multiplatform inversion of the 2013 Rim Fire smoke emissions using regional-scale modeling: important nocturnal fire activity, air quality, and climate impacts	Pablo Saide	8:15 AM	8:30 AM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies I	Atmospheric Sciences	NA
Brown carbon in the continental troposphere: sources, evolution and radiative impacts	Rodney J Weber	8:30 AM	8:45 AM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies I	Atmospheric Sciences	NA
Direct Measurements of Brown Carbon Absorption in A Wide Range of Biomass Burning Plumes	Shane Murphy	8:45 AM	9:00 AM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies I	Atmospheric Sciences	NA
Agricultural Fires in the Southeastern U.S. during SEAC4RS: Emissions of Trace Gases and Particles and Evolution of Reactive Nitrogen and Ozone	Xiaoxi Liu	9:00 AM	9:15 AM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies I	Atmospheric Sciences	NA

First Characterization of Biomass Burning Smoke from Cooking Fires, Peat, Crop Residue and Other Fuels By High Resolution PTR-TOF Mass Spectrometry and FTIR	Chelsea Stockwell	9:15 AM	9:30 AM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies I	Atmospheric Sciences	NA
First Airborne PTR-ToF-MS Measurements of VOCs in a Biomass Burning Plume: Primary Emissions and Aging	Armin Wisthaler	9:30 AM	9:45 AM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies I	Atmospheric Sciences	NA
Modeling the Complex Photochemistry of Biomass Burning Plumes in Plume-Scale, Regional, and Global Air Quality Models	Matthew Alvarado	9:45 AM	10:00 AM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies I	Atmospheric Sciences	NA
USEPA DEVELOPMENT AND USE OF GREENHOUSE GAS EMISSIONS INFORMATION	William Irving	8:00 AM	8:15 AM	Quantifying Emissions from Urban and Other Complex Areas I	Atmospheric Sciences	NA
How can bottom-up greenhouse gas flux quantification in urban systems be relevant to both carbon science and policy?	Kevin Gurney	8:15 AM	8:30 AM	Quantifying Emissions from Urban and Other Complex Areas I	Atmospheric Sciences	NA
One Year of Doppler Lidar Observations Characterizing Boundary Layer Wind, Turbulence, and Aerosol Structure During the Indianapolis Flux Experiment	Robert Hardesty	8:30 AM	8:45 AM	Quantifying Emissions from Urban and Other Complex Areas I	Atmospheric Sciences	NA
Informing urban carbon emissions with atmospheric observations: motivation, methods, and reducing uncertainties.	Eric Kort	8:45 AM	9:00 AM	Quantifying Emissions from Urban and Other Complex Areas I	Atmospheric Sciences	NA
Greenhouse Gas Emissions of Indianapolis using a High-Density Surface Tower Network and an Atmospheric Inversion	Thomas Lauvaux	9:00 AM	9:15 AM	Quantifying Emissions from Urban and Other Complex Areas I	Atmospheric Sciences	NA
Inversions of CO2 Emissions from the Paris Area Using Yearlong Measurement Series	Johannes Staufer	9:15 AM	9:30 AM	Quantifying Emissions from Urban and Other Complex Areas I	Atmospheric Sciences	NA

Highly-resolved Modeling of Emissions and Concentrations of Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, and Fine Particulate Matter in Salt Lake City, Utah	Daniel Mendoza	9:30 AM	9:45 AM	Quantifying Emissions from Urban and Other Complex Areas I	Atmospheric Sciences	NA
Daytime CO_2 Urban-Regional Scale Surface Fluxes from Airborne Measurements, Eddy-Covariance Observations and Emissions Inventories in Greater London	Anna Font	9:45 AM	10:00 AM	Quantifying Emissions from Urban and Other Complex Areas I	Atmospheric Sciences	NA
time Dependence of Aerosols in Biomass Burn Plumes from Bbop	Lawrence Kleinman	10:20 AM	10:35 AM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies II	Atmospheric Sciences	NA
Chemical Composition of Wildland and Agricultural Biomass Burning Particles Measured Downwind During BBOP Study	Edward Fortner	10:35 AM	10:50 AM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies II	Atmospheric Sciences	NA
Transmission Electron Microscopy Analysis of Tarball Formation and Volatility from Biomass-burning Aerosol Particles during the 2013 BBOP Campaign	Peter Buseck	10:50 AM	11:05 AM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies II	Atmospheric Sciences	NA
Biomass Burning as a Source of Mineral Dust and Giant Aerosol to the Free Troposphere	Karl Froyd	11:05 AM	11:20 AM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies II	Atmospheric Sciences	NA
Use of the NASA GEOS-5 SEAC^{4}RS Meteorological and Aerosol Reanalysis for assessing simulated aerosol optical properties as a function of smoke age	Cynthia Randles	11:20 AM	11:35 AM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies II	Atmospheric Sciences	NA

Black carbon over the Amazon during SAMBBA: it gets everywhere	William Morgan	11:35 AM	11:50 AM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies II	Atmospheric Sciences	NA
Simulation of biomass burning aerosols and radiative effects in HadGEM3	Ben Johnson	11:50 AM	12:05 PM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies II	Atmospheric Sciences	NA
Impact of Biomass Burning Aerosols on the Biosphere over Amazonia	Florent Malavelle	12:05 PM	12:20 PM	Biomass Burning Impacts on Composition, Clouds, and Climate: SEAC4RS, BBOP, SAMBBA, BORTAS, FLAME-4, and Other Recent Studies II	Atmospheric Sciences	NA
Progress and Developments in the Indianapolis Flux Experiment (INFLUX)	Paul Shepson	10:20 AM	10:35 AM	Quantifying Emissions from Urban and Other Complex Areas II	Atmospheric Sciences	NA
Removing Traffic Emissions from CO_2 Time Series Measured at a Tall Tower Using on-Road Measurements and WRF-Stilt Transport Modeling	Andres Schmidt	10:35 AM	10:50 AM	Quantifying Emissions from Urban and Other Complex Areas II	Atmospheric Sciences	NA
Emission of CO_2 by the transport sector and the impact on the atmospheric concentration in Sao Paulo, Brazil.	Maria de Fatima Andrade	10:50 AM	11:05 AM	Quantifying Emissions from Urban and Other Complex Areas II	Atmospheric Sciences	NA
Estimating CO_2 fluxes in the Bay Area from a dense surface network: First estimates from the Berkeley Atmospheric CO_2 Observation Network (BeACON)	Alexander Turner	11:05 AM	11:20 AM	Quantifying Emissions from Urban and Other Complex Areas II	Atmospheric Sciences	NA
Estimation of country-scale methane emissions by airborne and ground-based *in situ* observations and inverse modeling	Dominik Brunner	11:20 AM	11:35 AM	Quantifying Emissions from Urban and Other Complex Areas II	Atmospheric Sciences	NA

Methane Emissions in the London Region: Deciphering Regional Sources with Mobile Measurements	Giulia Zazzeri	11:35 AM	11:50 AM	Quantifying Emissions from Urban and Other Complex Areas II	Atmospheric Sciences	NA
BLACK Carbon Emissions from Diesel Sources in the Largest Arctic City: Case Study of Murmansk	Meredydd Evans	11:50 AM	12:05 PM	Quantifying Emissions from Urban and Other Complex Areas II	Atmospheric Sciences	NA
Traffic Related Air Quality Trends in São Paulo, Brazil	Pedro Perez-Martinez	12:05 PM	12:20 PM	Quantifying Emissions from Urban and Other Complex Areas II	Atmospheric Sciences	NA
Tropospheric Ozone Profile Retrievals Combining TIR, UV And Visible Spectra	Georgina Miles	1:40 PM	1:55 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications III	Atmospheric Sciences	NA
Challenges and opportunities for remote sensing of air quality: Insights from DISCOVER-AQ	James Crawford	1:55 PM	2:10 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications III	Atmospheric Sciences	NA
The atmospheric composition geostationary satellite constellation for air quality and climate science: Evaluating performance with Observation System Simulation Experiments	David Edwards	2:10 PM	2:25 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications III	Atmospheric Sciences	NA
Impact of Local and Non-local Sources of Pollution on Background US ozone: Potential Role of the Atmospheric Composition Constellation of Geostationary Sounders	Kevin Bowman	2:25 PM	2:40 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications III	Atmospheric Sciences	NA
Estimates of Emissions and Chemical Lifetimes of NOx from Point Sources using OMI Retrievals	Benjamin de Foy	2:40 PM	2:55 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications III	Atmospheric Sciences	NA
Implementation of Tropospheric Emissions: Monitoring of Pollution (TEMPO)	Kelly Chance	2:55 PM	3:10 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications III	Atmospheric Sciences	NA

New Retrieval Techniques Enables Sensitive Measurements of Tropospheric NO_2 and SO_2 from Suomi NPP OMPS	Kai Yang	3:10 PM	3:25 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications III	Atmospheric Sciences	NA
Glyoxal Retrieval from the Ozone Monitoring Instrument	Christopher Miller	3:25 PM	3:40 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications III	Atmospheric Sciences	NA
Advances in Studies of Air Quality and Health Informed with Satellite Remote Sensing	Randall Martin	4:00 PM	4:15 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications IV	Atmospheric Sciences	NA
On the Specification of Smoke Injection Heights for Aerosol Forecasting	Arlindo da Silva	4:15 PM	4:30 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications IV	Atmospheric Sciences	NA
Global assessment of sub-pixel fire retrievals using MODIS 1 km data	Wilfrid Schroeder	4:30 PM	4:45 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications IV	Atmospheric Sciences	NA
An algorithm for retrieving fine and coarse aerosol microphysical properties from AERONET-type photopolarimetric measurements	Xiaoguang Xu	4:45 PM	5:00 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications IV	Atmospheric Sciences	NA
A new paradigm for constraining PM2.5 speciation by combining multiangular and polarimetric remote sensing with chemical transport model information	Olga Kalashnikova	5:00 PM	5:15 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications IV	Atmospheric Sciences	NA
Assessment of the Sources of Black Carbon and Carbon Monoxide using OMI Aerosol Absorption Optical Depth, MOPITT Carbon Monoxide, and the adjoint of GEOS-Chem	Li Zhang	5:15 PM	5:30 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications IV	Atmospheric Sciences	NA

Advances in the Hyperspectral Thermal Emission Spectrometer (HyTES) and Application to the Remote Sensing of Fires and Trace Gases	Jonathan Mihaly	5:30 PM	5:45 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications IV	Atmospheric Sciences	NA
An Examination of Extreme Fire Behavior and its Impact on Smoke Injection Altitude using Remote Sensing and Meteorological Data	David Peterson	5:45 PM	6:00 PM	Advances in Remote Sensing of Fires, Aerosols, and Trace Gases for Air Quality Applications IV	Atmospheric Sciences	NA
Multidisciplinary Research on Canopy Photosynthetic Productivity in a Cool Temperate Deciduous Broadleaf Forest in Japan	Hiroyuki Muraoka	1:40 PM	1:55 PM	Vegetation Phenology in Terrestrial Ecosystems: Observations, Modeling, and Implications on Climate Change II	Biogeosciences	NA
Within stand variability of leaf phenology in deciduous tree species: characterization and ecological implications	Nicolas Delpierre	1:55 PM	2:10 PM	Vegetation Phenology in Terrestrial Ecosystems: Observations, Modeling, and Implications on Climate Change II	Biogeosciences	NA
Predominant Environmental Factors Controlling and Predicting Phenological Seasonality Across the CONUS over the Last Decade	William Hargrove	2:10 PM	2:25 PM	Vegetation Phenology in Terrestrial Ecosystems: Observations, Modeling, and Implications on Climate Change II	Biogeosciences	NA
Identification of Seasonal to Decadal Controls on Phenology by Contrasting and Integrating Models, Datasets and Detection Methods	Matthias Forkel	2:25 PM	2:40 PM	Vegetation Phenology in Terrestrial Ecosystems: Observations, Modeling, and Implications on Climate Change II	Biogeosciences	NA
Simulating Plant Water Stress and Phenology in Seasonally Dry Tropical Forests: Plant Hydraulics and Trait Driven Trade Offs	Xiangtao Xu	2:40 PM	2:55 PM	Vegetation Phenology in Terrestrial Ecosystems: Observations, Modeling, and Implications on Climate Change II	Biogeosciences	NA
Determining the Dominant Controls of Land Surface Phenology: Implications for Global Modeling	Trevor Keenan	2:55 PM	3:10 PM	Vegetation Phenology in Terrestrial Ecosystems: Observations, Modeling, and Implications on Climate Change II	Biogeosciences	NA

Modeling Phenological Responses to Climate Change: Uncertainty and Missing Drivers	Mirco Migliavacca	3:10 PM	3:25 PM	Vegetation Phenology in Terrestrial Ecosystems: Observations, Modeling, and Implications on Climate Change II	Biogeosciences	NA
Phenology Data Products to Support Assessment and Forecasting of Phenology on Multiple Spatiotemporal Scales	Katharine Gerst	3:25 PM	3:40 PM	Vegetation Phenology in Terrestrial Ecosystems: Observations, Modeling, and Implications on Climate Change II	Biogeosciences	NA
Influence of Biochar on C and N Transformation in Soil and Their Impact on Greenhouse Gas Emissions	Rajesh Chintala	4:00 PM	4:15 PM	Biochar Research: Advances in Production and Application II	Biogeosciences	NA
Sugarcane rice residue biochars and their applications	Jim Wang	4:15 PM	4:30 PM	Biochar Research: Advances in Production and Application II	Biogeosciences	NA
USDA Biochar Research: Land Application Advances to Reap Its Multifunctional Abilities	Jim Ippolito	4:30 PM	4:45 PM	Biochar Research: Advances in Production and Application II	Biogeosciences	NA
Biochar: from laboratory mechanisms through the greenhouse to field trials	Caroline Masiello	4:45 PM	5:00 PM	Biochar Research: Advances in Production and Application II	Biogeosciences	NA
White Spruce Biochar for Point of Use Drinking Water Treatment	Michael Cliggett	5:00 PM	5:15 PM	Biochar Research: Advances in Production and Application II	Biogeosciences	NA
The ecological consequences of biochar application to grasslands.	Simon Jeffery	5:15 PM	5:30 PM	Biochar Research: Advances in Production and Application II	Biogeosciences	NA
Toward a mechanistic understanding of the effect of biochar addition on soil water retention	Susan Yi	5:30 PM	5:45 PM	Biochar Research: Advances in Production and Application II	Biogeosciences	NA
Biodiversity, greenhouse gas and economic trade offs from biochar use: a 20 year model of biochar use in the UK	Alfred Gathorne Hardy	5:45 PM	6:00 PM	Biochar Research: Advances in Production and Application II	Biogeosciences	NA
Decreasing μ^{142}_{Nd} Variation in the Archean Convecting Mantle from 4.0 to 2.5 Ga: Heterogeneous Domain Mixing or Crustal Recycling?	Alan Brandon	1:40 PM	1:55 PM	From Core to Crust, the Evolution of Planetary Interiors II	Study of Earth's Deep Interior	NA

Physical mechanisms of planetary core formation: Constraints from in-situ X-ray microtomography	Heather Watson	1:55 PM	2:10 PM	From Core to Crust, the Evolution of Planetary Interiors II	Study of Earth's Deep Interior	NA
Late Impacts and the Origins of the Atmospheres on the Terrestrial Planets	Sujoy Mukhopadhyay	2:10 PM	2:25 PM	From Core to Crust, the Evolution of Planetary Interiors II	Study of Earth's Deep Interior	NA
On the Dynamics of a Coupled Climate Mantle System and the Implications for Planetary Habitability and Evolution	Bradford Foley	2:25 PM	2:40 PM	From Core to Crust, the Evolution of Planetary Interiors II	Study of Earth's Deep Interior	NA
Plate Tectonics on Earth and on Alien Worlds - *Novel Insights into Mantle Dynamics*	Vlada Stamenkovic	2:40 PM	2:55 PM	From Core to Crust, the Evolution of Planetary Interiors II	Study of Earth's Deep Interior	NA
Interior Dynamics and Outgassing in Tidally-heated Rocky Super-Earths	Diana Valencia	2:55 PM	3:10 PM	From Core to Crust, the Evolution of Planetary Interiors II	Study of Earth's Deep Interior	NA
Influence of Intrusive vs. Extrusive Magmatism on Venus' Tectonics and long-term Mantle Evolution: 2D and 3D Simulations	Paul Tackley	3:10 PM	3:25 PM	From Core to Crust, the Evolution of Planetary Interiors II	Study of Earth's Deep Interior	NA
How Large are Heat Flow Variations across Mars' Surface?	Ana-Catalina Plesa	3:25 PM	3:40 PM	From Core to Crust, the Evolution of Planetary Interiors II	Study of Earth's Deep Interior	NA
Large Scale Geologic Controls on Hydraulic Stimulation	John McLennan	8:00 AM	8:20 AM	Fracturing and Near-Fracture Processes I	Hydrology	NA
Growth Kinematics of Opening-Mode Fractures	Peter Eichhubl	8:20 AM	8:35 AM	Fracturing and Near-Fracture Processes I	Hydrology	NA
The Influence of Fracture Network Geometry on Production from Unconventional Reservoirs	Thomas Doe	8:35 AM	8:55 AM	Fracturing and Near-Fracture Processes I	Hydrology	NA
Proppant effects on maintaining fracture permeability in shale.	Mathew Ingraham	8:55 AM	9:10 AM	Fracturing and Near-Fracture Processes I	Hydrology	NA
Comparison of Heterogeneously-Propped Hydraulic Fractures for Vertical and Lateral Wells	Joseph Morris	9:10 AM	9:25 AM	Fracturing and Near-Fracture Processes I	Hydrology	NA
Coupling Hydraulic Fracturing Propagation and Gas Well Performance for Simulation of Production in Unconventional Shale Gas Reservoirs	Yu-Shu Wu	9:25 AM	9:40 AM	Fracturing and Near-Fracture Processes I	Hydrology	NA

Numerical Simulation of Subsurface Transport and Groundwater Impacts from Hydraulic Fracturing of Tight/Shale Gas Reservoirs	Matthew Reagan	9:40 AM	9:55 AM	Fracturing and Near-Fracture Processes I	Hydrology	NA
Bringing Together Co-located Geological, Geophysical and Hydrogeologic Observations of Cemented Fault-Zone Permeability	John Wilson	10:20 AM	10:35 AM	Subsurface Fracture/Fault Characterization and Modeling I	Hydrology	NA
Fracture Characterization through Multi-Physics Joint Inversion	Stefan Finsterle	10:35 AM	10:50 AM	Subsurface Fracture/Fault Characterization and Modeling I	Hydrology	NA
Two-Phase Fluid Leakage through Faults Using a Multi-Scale Analytical-Numerical Modeling Approach	Mary Kang	10:50 AM	11:05 AM	Subsurface Fracture/Fault Characterization and Modeling I	Hydrology	NA
From Multi-Porosity to Multiple-Scale Permeability Models of Natural Fractured Media	Jean-Raynald De Dreuzy	11:05 AM	11:20 AM	Subsurface Fracture/Fault Characterization and Modeling I	Hydrology	NA
Seismic and sub-seismic deformation prediction for the assessment of possible pathways – the joint project PROTECT	Charlotte Krawczyk	11:20 AM	11:35 AM	Subsurface Fracture/Fault Characterization and Modeling I	Hydrology	NA
Geometrical Characterization of Blocks in Fractured Media	Pierre Adler	11:35 AM	11:50 AM	Subsurface Fracture/Fault Characterization and Modeling I	Hydrology	NA
Fracture Flow Channel Imaging Using Cross-Polarized GPR Signals	Georgios Tsoflias	11:50 AM	12:05 PM	Subsurface Fracture/Fault Characterization and Modeling I	Hydrology	NA
An Analysis of the Vulnerability of Global Drinking Water Access to Climate-related Hazards	Mark Elliott	10:20 AM	10:35 AM	Sustainable Water Quantity and Quality in the Built Environment I	Hydrology	NA
America's Water: An opportunity for a new sustainable design from a One Water Perspective	Upmanu Lall	10:35 AM	10:50 AM	Sustainable Water Quantity and Quality in the Built Environment I	Hydrology	NA
Integrative sensing and prediction of urban water for sustainable cities (iSPUW)	Dong-Jun Seo	10:50 AM	11:05 AM	Sustainable Water Quantity and Quality in the Built Environment I	Hydrology	NA

Integrated Stormwater Management in Los Angeles, California: Best Management Practices and Evaluation of Ancillary Benefits	Terri Hogue	11:05 AM	11:20 AM	Sustainable Water Quantity and Quality in the Built Environment I	Hydrology	NA
Approximating within-GCM uncertainty for hydrologic climate change impact assessments	Murray Peel	11:20 AM	11:35 AM	Sustainable Water Quantity and Quality in the Built Environment I	Hydrology	NA
Paper 5643 - Role of Maintenance in the Performance of Stormwater Control Measures	William Hunt	11:35 AM	11:50 AM	Sustainable Water Quantity and Quality in the Built Environment I	Hydrology	NA
Water Resources Vulnerability Assessment Accounting for Human Influence	Ali Mehran	11:50 AM	12:05 PM	Sustainable Water Quantity and Quality in the Built Environment I	Hydrology	NA
The Onset of a Novel Environmental Offset: A case study for diverse pollutant scheme in Australia.	Ashmita Sengupta	12:05 PM	12:20 PM	Sustainable Water Quantity and Quality in the Built Environment I	Hydrology	NA
Flash Flooding - Ways That Science and Adaptation Reduce Losses	Eve Gruntfest	8:00 AM	8:15 AM	Persistent and Recurring Natural Hazards: Disaster Risk Reduction and Disaster Risk Management I	Natural Hazards	NA
Aspects of Decision-Making for Risk Reduction during the Prolonged Earthquake Sequence in Canterbury, New Zealand	Anne Wein	8:15 AM	8:30 AM	Persistent and Recurring Natural Hazards: Disaster Risk Reduction and Disaster Risk Management I	Natural Hazards	NA
The Enormous Challenge faced by China to Reduce Earthquake Losses	Yali Wang	8:30 AM	8:45 AM	Persistent and Recurring Natural Hazards: Disaster Risk Reduction and Disaster Risk Management I	Natural Hazards	NA
Excess Rainfall Product for the Caribbean Region - Developed by The CCRIF and Swiss Re	Megan Linkin	8:45 AM	9:00 AM	Persistent and Recurring Natural Hazards: Disaster Risk Reduction and Disaster Risk Management I	Natural Hazards	NA
Recurrent Mudflows at Popocatepetl Volcano: Impact on the Population over several Thousand Years and possible Precursors.	Ana Lillian Martin	9:00 AM	9:15 AM	Persistent and Recurring Natural Hazards: Disaster Risk Reduction and Disaster Risk Management I	Natural Hazards	NA

Never Trust Anyone Over 30: Mitigation Strategies for Adapting to Three Decades of Persistent Degassing at Kīlauea Volcano, Hawaiʻi	Tamar Elias	9:15 AM	9:30 AM	Persistent and Recurring Natural Hazards: Disaster Risk Reduction and Disaster Risk Management I	Natural Hazards	NA
From Cyclone Tracks to the Costs of European Winter Storms: A Probabilistic Loss Assessment Model	Kirsten Orwig	9:30 AM	9:45 AM	Persistent and Recurring Natural Hazards: Disaster Risk Reduction and Disaster Risk Management I	Natural Hazards	NA
A Century of Australian Natural Disasters and How to Reduce the Toll from Future Events	John McAneney	9:45 AM	10:00 AM	Persistent and Recurring Natural Hazards: Disaster Risk Reduction and Disaster Risk Management I	Natural Hazards	NA
Welcoming Remarks		10:20 AM	10:25 AM	Extreme Sea Levels and Coastal Flood Risk in a Changing Climate I	Natural Hazards	NA
Long-term increase in New York Harbor storm tides, 1844-present	Stefan Talke	10:25 AM	10:39 AM	Extreme Sea Levels and Coastal Flood Risk in a Changing Climate I	Natural Hazards	NA
Extreme Sea Levels and Approaches to Adaptation in Germany	Ralf Weisse	10:39 AM	10:53 AM	Extreme Sea Levels and Coastal Flood Risk in a Changing Climate I	Natural Hazards	NA
Return Period and Risk of Extreme Sea Levels under Non-Stationarity	Jayantha Obeysekera	10:53 AM	11:07 AM	Extreme Sea Levels and Coastal Flood Risk in a Changing Climate I	Natural Hazards	NA
Storm Surge and Tide Interaction: A Complete Paradigm	Kevin Horsburgh	11:07 AM	11:21 AM	Extreme Sea Levels and Coastal Flood Risk in a Changing Climate I	Natural Hazards	NA
Climate Variability of Coastal Flooding Risk in San Francisco Bay: the Wonderful Problem	Fernando Méndez Incera	11:21 AM	11:35 AM	Extreme Sea Levels and Coastal Flood Risk in a Changing Climate I	Natural Hazards	NA
An Analysis of North Atlantic Tropical Cyclones and Their Impacts on Coastal Inundation in New York and New Jersey during the Last Millennium	Andra Reed	11:35 AM	11:49 AM	Extreme Sea Levels and Coastal Flood Risk in a Changing Climate I	Natural Hazards	NA

Surge Driven Return Flow Results in Deposition of Coarse Grain Horizons Archiving a 4000 Year Record of Extreme Storm Events, Cape Cod, Massachusetts	Chris Maio	11:49 AM	12:03 PM	Extreme Sea Levels and Coastal Flood Risk in a Changing Climate I	Natural Hazards	NA
Quantifying the role of climate variability on extreme total water level impacts: An application of a full simulation model to Ocean Beach, California	Katherine Serafin	12:03 PM	12:17 PM	Extreme Sea Levels and Coastal Flood Risk in a Changing Climate I	Natural Hazards	NA
Landslide Mobility and Hazards: A Geophysical Overview of the Oso Disaster	Richard Iverson	1:40 PM	2:00 PM	The Oso Disaster and Other New Perspectives on High-Mobility Landslides and Debris Flows II	Natural Hazards	NA
Numerical Modeling of the 2014 Oso, Washington, Landslide.	David George	2:00 PM	2:20 PM	The Oso Disaster and Other New Perspectives on High-Mobility Landslides and Debris Flows II	Natural Hazards	NA
Seismic Signals of the 2014 Landslide near Oso, Washington	Kate Allstadt	2:20 PM	2:40 PM	The Oso Disaster and Other New Perspectives on High-Mobility Landslides and Debris Flows II	Natural Hazards	NA
The 22 March 2014 Oso Landslide, Snohomish County, Washington: Findings of the GEER Reconnaissance Investigation	Joseph Wartman	2:40 PM	3:00 PM	The Oso Disaster and Other New Perspectives on High-Mobility Landslides and Debris Flows II	Natural Hazards	NA
Prediction of Geophysical Flow Mobility	Bruno Cagnoli	3:00 PM	3:20 PM	The Oso Disaster and Other New Perspectives on High-Mobility Landslides and Debris Flows II	Natural Hazards	NA
Laboratory experiments investigating entrainment by debris flows and associated increased mobility	Delaney Moberly	3:20 PM	3:40 PM	The Oso Disaster and Other New Perspectives on High-Mobility Landslides and Debris Flows II	Natural Hazards	NA

Habitable Planets in Venus' Orbit and with Modern Venus' Slow Rotation	Jun Yang	8:00 AM	8:15 AM	Planetary Atmospheres and Their Evolution I	Planetary Sciences	NA
Evaporating Atmospheres Around Close-in Exoplanets.	James Owen	8:15 AM	8:30 AM	Planetary Atmospheres and Their Evolution I	Planetary Sciences	NA
Electrodynamics in Giant Planet Atmospheres	Tommi Koskinen	8:30 AM	8:45 AM	Planetary Atmospheres and Their Evolution I	Planetary Sciences	NA
Formation and Evolution of the Atmosphere on Early Titan	Nadejda Marounina	8:45 AM	9:00 AM	Planetary Atmospheres and Their Evolution I	Planetary Sciences	NA
New evidence for chemical depletion of ammonia in the 1 to 2 bar region of Jupiter's atmosphere	Michael Wong	9:00 AM	9:15 AM	Planetary Atmospheres and Their Evolution I	Planetary Sciences	NA
The Martian Hot Oxygen Corona at Ancient times	Yuni Lee	9:15 AM	9:30 AM	Planetary Atmospheres and Their Evolution I	Planetary Sciences	NA
Highly Accurate Infrared Line Lists of SO_2 Isotopologues Computed for Atmospheric Modeling on Venus and Exoplanets	Xinchuan Huang	9:30 AM	9:45 AM	Planetary Atmospheres and Their Evolution I	Planetary Sciences	NA
The Formation of Haze During the Rise of Oxygen in the Atmosphere of the Early Earth	Sarah Horst	9:45 AM	10:00 AM	Planetary Atmospheres and Their Evolution I	Planetary Sciences	NA
Absence of Remote Triggering in Geothermal Fields Due to Human Activity	Shuangyu Ge	1:40 PM	1:55 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact II	Seismology	NA
Assessing Induced Seismicity Models for Use in Deep Geothermal Energy Projects	Eszter Király	1:55 PM	2:10 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact II	Seismology	NA
The Impacts of Mechanical Stress Transfers Caused by Hydromechanical and Thermal Processes on Fault Stability during Hydraulic Stimulation in a Deep Geothermal Reservoir.	Pierre Jeanne	2:10 PM	2:25 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact II	Seismology	NA
Spatiotemporal Variations of Faulting Regimes and Source Parameters of Induced Seismicity: A Case Study from The Geysers Geothermal Field	Patricia Martínez Garzón	2:25 PM	2:40 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact II	Seismology	NA
Signatures of Fluid Pressure Triggering, Natural and Induced: Comparing Migrating Earthquake Swarms in Long Valley Caldera, California and Azle, Texas	David Shelly	2:40 PM	2:55 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact II	Seismology	NA

Is high rate injection causing the increase in U.S. mid continent seismicity?	Matthew Weingarten	2:55 PM	3:10 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact II	Seismology	NA
Induced Seismicity Monitoring at the Decatur, IL, CO_2 Sequestration Demonstration Site	Joern Kaven	3:10 PM	3:25 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact II	Seismology	NA
Is the Recent Increase in Seismicity in Southern Kansas Natural?	Justin Rubinstein	3:25 PM	3:40 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact II	Seismology	NA
Microseismic Techniques for Detecting Induced Seismicity Hazard	Eric Matzel	4:00 PM	4:15 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact III	Seismology	NA
Some differences in seismic hazard assessment for natural and fluid induced earthquakes	Arthur McGarr	4:15 PM	4:30 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact III	Seismology	NA
Estimation of the Cumulative Fault Area Under Critical State Based on Microseismic Dataset at Hydraulic Stimulation for Seismic Risk Assessment	Yusuke Mukuhira	4:30 PM	4:45 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact III	Seismology	NA
Discrimination and Assessment of Induced Seismicity in Active Tectonic Zones: A Case Study from Southern California	Corinne Bachmann	4:45 PM	5:00 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact III	Seismology	NA
Correlation between Induced Seismic Events and Hydraulic Fracturing activities in California	Fred Aminzadeh	5:00 PM	5:15 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact III	Seismology	NA
Induced Seismicity: What is the Size of the Largest Expected Earthquake?	Gert Zoeller	5:15 PM	5:30 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact III	Seismology	NA
Evolution of pore fluid pressures in a stimulated geothermal reservoir inferred from earthquake focal mechanisms	Toshiko Terakawa	5:30 PM	5:45 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact III	Seismology	NA
Characterizing North Texas Seismicity with a High Density Network of Exploration Seismic Reflection Recorders	Chris Hayward	5:45 PM	6:00 PM	Induced and Triggered Earthquakes: Theory, Observations, Impact III	Seismology	NA
Introductory Remarks		8:00 AM	8:01 AM	The Carbon Cycle on Annual to Millennial Timescales	Union	NA

Human Domination of Today's Carbon Cycle	Pieter Tans	8:01 AM	8:18 AM	The Carbon Cycle on Annual to Millennial Timescales	Union	NA
What have we learned from “top-down” inferences of surface CO2 fluxes?	Inez Fung	8:18 AM	8:35 AM	The Carbon Cycle on Annual to Millennial Timescales	Union	NA
Diagnosing Carbon-Climate Feedbacks in the Contemporary Carbon Cycle	Ashley Ballantyne	8:35 AM	8:52 AM	The Carbon Cycle on Annual to Millennial Timescales	Union	NA
Emergent Constraints on Climate-Carbon Cycle Feedbacks	Peter Cox	8:52 AM	9:09 AM	The Carbon Cycle on Annual to Millennial Timescales	Union	NA
Atmospheric CO_2 Reconstructions from Polar Ice: What Do High-Resolution CO_2 Records and $\delta^{13}CO_2$ Analyses Tell Us about Past Climate and Global Carbon Cycle Processes?	Jochen Schmitt	9:09 AM	9:26 AM	The Carbon Cycle on Annual to Millennial Timescales	Union	NA
Carbon isotopes support Atlantic Meridional Overturning Circulation decline as a trigger for early deglacial CO_2 rise	Andreas Schmittner	9:26 AM	9:43 AM	The Carbon Cycle on Annual to Millennial Timescales	Union	NA
Southern Ocean biogeochemical control of glacial/interglacial carbon dioxide change	Daniel Sigman	9:43 AM	10:00 AM	The Carbon Cycle on Annual to Millennial Timescales	Union	NA
Introductory Remarks		10:20 AM	10:25 AM	Understanding Why People Reject Sound Scientific Information and How Scientists Can Respond	Union	NA
Cigarette makers pioneered many of our black arts of disinformation, including the funding of research to distract from the hazards of smoking. Ten Nobel prizes were the result. By funding distraction research, the cigarette industry became an important source of academic corruption, helping also to forge other forms of denialism on a global scale.	Robert Proctor	11:00 AM	11:35 AM	Understanding Why People Reject Sound Scientific Information and How Scientists Can Respond	Union	NA

But it's "Only a Theory!" Responding to Evolution Doubt, Distortion, and Denial.	Kenneth Miller	11:35 AM	12:10 PM	Understanding Why People Reject Sound Scientific Information and How Scientists Can Respond	Union	NA
Concluding Remarks		12:10 PM	12:20 PM	Understanding Why People Reject Sound Scientific Information and How Scientists Can Respond	Union	NA
Rocky super-Earths: variety in composition and energy budget	Diana Valencia	1:40 PM	1:55 PM	Upstairs Downstairs: Consequences of Internal Evolution for the Habitability of Planetary Surfaces	Union	NA
Life with and Life without Plate Tectonics	Adrian Lenardic	1:55 PM	2:10 PM	Upstairs Downstairs: Consequences of Internal Evolution for the Habitability of Planetary Surfaces	Union	NA
Drip Magmatism: Intra-Plate Volcanism and Its Importance to the Early Earth and Other Terrestrial Planets	Linda Elkins-Tanton	2:10 PM	2:25 PM	Upstairs Downstairs: Consequences of Internal Evolution for the Habitability of Planetary Surfaces	Union	NA
No coincidence? Exploring the connection between the Great Oxidation Event and craton stabilization during the Archean-Proterozoic transition	Lee Kump	2:40 PM	2:55 PM	Upstairs Downstairs: Consequences of Internal Evolution for the Habitability of Planetary Surfaces	Union	NA
Ocean Ridges and Oxygen	Charles Langmuir	2:55 PM	3:10 PM	Upstairs Downstairs: Consequences of Internal Evolution for the Habitability of Planetary Surfaces	Union	NA
Precambrian Secular Evolution of Oceanic Nickel Concentrations: An Update	Kurt Konhauser	3:10 PM	3:25 PM	Upstairs Downstairs: Consequences of Internal Evolution for the Habitability of Planetary Surfaces	Union	NA

Trouble Upstairs: Reconstructing Permian-Triassic Climate during Siberian Traps Magmatism	Benjamin Black	3:25 PM	3:40 PM	Upstairs Downstairs: Consequences of Internal Evolution for the Habitability of Planetary Surfaces	Union	NA
'Engagement' in Future Earth: Supporting a Step Change in Global Science-Policy Interactions	Susanne Moser	4:00 PM	4:20 PM	Future Earth: Connecting Research and Responses to Global Environmental Change	Union	NA
Science Communication in the Post-Expert Digital Age	Amy Luers	4:20 PM	4:40 PM	Future Earth: Connecting Research and Responses to Global Environmental Change	Union	NA
Advancing Water and Water-Energy-Food Cluster Activities within Future Earth	Richard Lawford	4:40 PM	5:00 PM	Future Earth: Connecting Research and Responses to Global Environmental Change	Union	NA
A critical knowledge pathway to a sustainable future in an urbanizing planet	Patricia Romero-Lankao	5:00 PM	5:20 PM	Future Earth: Connecting Research and Responses to Global Environmental Change	Union	NA
Continental Growth and the Sedimentary Record	Bruno Dhuime	4:00 PM	4:15 PM	Using Sediments to Understand the Evolution of the Earth II	Volcanology, Geochemistry and Petrology	NA
Reconciling the detrital zircon record and crustal growth within juvenile accretionary orogens	Christopher Spencer	4:15 PM	4:30 PM	Using Sediments to Understand the Evolution of the Earth II	Volcanology, Geochemistry and Petrology	NA
Recognizing the Geochemical Consequences of Zircon Alteration at Jack Hills, Western Australia	Elizabeth Bell	4:30 PM	4:45 PM	Using Sediments to Understand the Evolution of the Earth II	Volcanology, Geochemistry and Petrology	NA
Using Zircon Chemistry as a Discriminating Tool for Geodynamical Context of Magma Formation	Denise Bussien Grosjean	5:00 PM	5:15 PM	Using Sediments to Understand the Evolution of the Earth II	Volcanology, Geochemistry and Petrology	NA
Trace Element Composition of Quartz as a Tool for Sedimentary Provenance: A Case Study from the Bega River Catchment	Michael Ackerson	5:15 PM	5:30 PM	Using Sediments to Understand the Evolution of the Earth II	Volcanology, Geochemistry and Petrology	NA

Using Ancient Glacial Diamictites to Track the Compositional Evolution of the Upper Continental Crust	Richard Gaschnig	5:30 PM	5:45 PM	Using Sediments to Understand the Evolution of the Earth II	Volcanology, Geochemistry and Petrology	NA
Using Archean and Paleoproterozoic Shales and Tillites as a Window into Crustal Evolution and Surface Conditions	Ilya Bindeman	5:45 PM	6:00 PM	Using Sediments to Understand the Evolution of the Earth II	Volcanology, Geochemistry and Petrology	NA

Legend
Atmospheric Sciences
Biogeosciences
Cryosphere
Education
Geochemistry, Mineralogy, Volcanology
Geochemistry, Mineralogy, Volcanology
Geochemistry, Mineralogy, Volcanology
Geodesy and Gravity
Geomagnetism and Paleomagnetism
Global Change
Hydrology
Hydrology, Cryosphere and Earth Surface (?)
Magnetospheric Physics
Natural Hazards
Nonlinear Geophysics
Ocean Science
Paleoceanography
Planetary Science
Pyscial Properties of Rocks
Science Policy
Seismology
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