



## 2017 AGU Fall Meeting Presenters

LSU faculty, students, post-doctoral researchers, and staff are presenting nearly 200 talks, posters, and events that span the Earth, sea, and space sciences.

For more information, visit the LSU booth #131 or LSU.edu. Follow us on Twitter @LSU & @LSUResearch.

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	ROOM #	SESSION-PAPER
<b>MONDAY, DEC. 11</b>					
8:00 AM	10:00 AM	Philip Bart (Chair)	Records of Post-LGM Antarctic Ice Sheet Contraction I	271-273	C113
8:00 AM	12:20 PM	Chantel Michelson	Penguin Proxies: Deciphering Millennial-Scale Antarctic Ecosystem Change using Amino Acid Stable Isotope Analysis	Poster Hall D-F	PP11B-1034
8:00 AM	12:20 PM	Edward Pritchard	Borehole Breakout Derived Constraints on Stress Regimes in the Santa Barbara Channel, Offshore Southern California	Poster Hall D-F	T11B-0469
8:00 AM	12:20 PM	Guibao Liu	Paleostress Analysis with Reflection Seismic Data: Example from the Songliao Basin, Northeast China	Poster Hall D-F	T11B-0466
8:00 AM	12:20 PM	Juan Carlos Guerrero	Provenance of Late Ordovician Sandstones Along the Southeastern Appalachian Mountains: Implications for the Tectonic Model of the Taconic Orogeny	Poster Hall D-F	T11A-0439
8:00 AM	12:20 PM	Mary Grace Lemon	Hydrological Controls on Floodplain Forest Phenology Assessed Using Remotely Sensed Vegetation Indices	Poster Hall D-F	H11D-1203
8:00 AM	12:20 PM	Nga Nguyen	Integrating Elevation Data with Vegetation Indices for Interpreting Phenology Response of Forested Wetland Vegetation	Poster Hall D-F	H11D-1207
8:15 AM	8:30 AM	Brandon Edwards	Spatial Structure of Forested Wetland Degradation on the Mississippi River Deltaic Plain	265-266	GC11D-02
8:30 AM	8:45 AM	Peter Clift	Net Flux of Sedimentary Carbon to the Mantle During the Cenozoic	217-219	T11F-02
10:35 AM	10:50 AM	Jianwei Wang	Mechanisms of Iodine Release from Iodoapatite in Aqueous Solution	203-205	MR12A-02
12:05 PM	12:20 PM	Jill Trepanier	Estimating the Risk of Tropical Cyclone Characteristics Along the United States Gulf of Mexico Coastline using Different Statistical Approaches	E3	A12H-08

MONDAY

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	ROOM #	SESSION-PAPER
1:40 PM	1:55 PM	Scott Hagen	On Achieving Transdisciplinary Outcomes from Synergistic Research Efforts in the Northern Gulf of Mexico	265-266	GC13L-01
1:40 PM	3:40 PM	Scott Hagen/ Carol Wilson (Chairs)	The Sustainability and Resilience of Coastal Systems: Creating Synergy Among Federal, State, and NGO Initiatives I	265-266	GC13L
1:40 PM	6:00 PM	T. Gregory Guzik	Live Streaming of the Moon's Shadow from the Edge of Space across the United States during the August 2017 Total Solar Eclipse	Poster Hall D-F	AE33B-2544
1:40 PM	6:00 PM	An Li	A Geostatistical Toolset for Reconstructing Louisiana's Coastal Stratigraphy using Subsurface Boring and Cone Penetrometer Test Data	Poster Hall D-F	H13H-1487
1:40 PM	6:00 PM	Haoran Liu	Sediment Transport and Slope Stability of Ship Shoal Borrow Areas for Coastal Restoration of Louisiana	Poster Hall D-F	EP13B-1610
1:40 PM	6:00 PM	Maryam Roostaee	Identification of Watershed-Scale Critical Source Areas using Bayesian Maximum Entropy Spatiotemporal Analysis	Poster Hall D-F	H13C-1396
1:40 PM	6:00 PM	Michael Vetter	Ceramic Single Phase High-Level Nuclear Waste Forms: Hollandite, Perovskite, and Pyrochlore	Poster Hall D-F	MR13A-0308
1:40 PM	6:00 PM	Nathan Benton	Shear-Wave Seismic Reflection Imaging and Impedance Inversion for a near-Surface Point-Bar	Poster Hall D-F	NS13A-0010
1:40 PM	6:00 PM	Qiang Yao	Multi-proxy Characterization of Two Recent Storm Deposits Attributed to Hurricanes Rita and Ike in the Chenier Plain of Southwestern Louisiana	Poster Hall D-F	EP13B-1626
1:40 PM	6:00 PM	Rupsa Bhowmick	Influence of Aerosol Loading on Ocean Temperature Parameters Affecting the Evolution of Tropical Cyclone Formation near Northern and Eastern Australia	Poster Hall D-F	A13H-2219
1:40 PM	6:00 PM	Wenjia Cao	Impacts of Particulate Matter on Gulf of Mexico Tropical Cyclones	Poster Hall D-F	A13H-220
1:40 PM	6:00 PM	Zehao Xue	Quantifying Sediment Characteristics and Infilling Rate within a Ship Shoal Dredge Borrow Area, Offshore Louisiana	Poster Hall D-F	EP13B-1620
1:40 PM	6:00 PM	Zhengchen Zang	A Numerical Study of Sediment Dynamics during Hurricane Gustav	Poster Hall D-F	EP13B-1624
1:52 PM	2:04 PM	Tara Jonell	Signal or Noise? Separating Grain Size-dependent Nd Isotope Variability from Provenance Shifts in Indus Delta Sediments, Pakistan	343	PP13F-02
1:55 PM	2:55 PM	Mohammad Jafari	Comparison of Pore-scale CO <sub>2</sub> -water-glass System Wettability and Conventional Wettability Measurement on a Flat Plate for Geological CO <sub>2</sub> Sequestration	288-290	H13-02
2:10 PM	2:25 PM	Karim Alizad	Sensitivity of Estuaries to Coastal Morphological Change Induced by Sea Level Rise	265-266	GC13L-03
2:25 PM	2:40 PM	Matthew Bilskie	Development and Application of Percent Annual Chance Coastal Inundation Maps to Support Decision-Making in the Northern Gulf of Mexico	265-266	GC13L-04

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	ROOM #	SESSION-PAPER
4:00 PM	6:00 PM	Scott Hagen/ Carol Wilson (Chairs)	The Sustainability and Resilience of Coastal Systems: Creating Synergy Among Federal, State, and NGO Initiatives II	265-266	GC14B
4:00 PM	6:00 PM	Yi-Jun Xu (Chair)	Progress in Research on the World's Major River Deltas I	352	EP14B
4:15 PM	4:30 PM	Eugene Turner	The Sea Level Rise Tipping Point of Delta Survival	352	EP14B-02
5:00 PM	5:15 PM	Marianne Dietz	Linking Backbarrier Lacustrine Stratigraphy with Spatial Dynamics of Shoreline Retreat in a Rapidly Subsiding Region of the Mississippi River Delta	352	EP14B-05
5:13 PM	5:16 PM	Chunyan Li	Analysis and Synthesis of WAVCIS Data for Characteristics of Waves and Currents on Louisiana Coast	278-279	OS23A-1375
5:26 PM	5:29 PM	Puspa Adhikari	Distribution and Transport of Particle-Bound Polycyclic Aromatic Hydrocarbons in a River-influenced Continental Margin: The Northern Gulf of Mexico	278-279	OS23A-1364
5:30 PM	5:45 PM	Heng Cai	A Coupled Natural-Human Modeling of the Land Loss Probability in the Mississippi River Delta	352	EP14B-07
5:30 PM	5:45 PM	Jeff Bomer	Coupled Landscape and Channel Dynamics in the Ganges-Brahmaputra Tidal Deltaplain, Southwest Bangladesh	265-266	GC14B-07
5:45 PM	6:00 PM	Giancarlo Restrepo	Trends in Accretion Rates of Riverine Sediments in a Distal Bay and Wetlands Using <sup>7</sup> Beryllium as a Tracer: Fourleague Bay, Louisiana	265-266	GC14B-04
5:48 PM	5:51 PM	Wei Huang	Cold Front Driven Water Transport between Lake Pontchartrain through Multiple Inlets	278-279	OS23A-1374
5:48 PM	6:00 PM	Yongbo Peng	Constraining $\Delta^{33}\text{S}$ Signatures of Archean Seawater Sulfate with Carbonate-associated Sulfate	343	PP14A-10

## TUESDAY, DEC. 12

8:00 AM	8:15 AM	Nancy Rabalais	Gulf of Mexico: Dealing with Change in a Marginal Sea	265-266	GC21I-01
8:00 AM	12:20 PM	Patricia Persaud (Chair)	From the Lithosphere to the Delta: Academic and Industry Geophysical Data to Address Scientific and Societal Issues Across the U.S. Gulf Coast and Beyond Posters	Poster Hall D-F	T21B
8:00 AM	12:20 PM	Philp Bart (Chair)	Records of Post-LGM Antarctic Ice Sheet Contraction II Posters	Poster Hall D-F	C21E
8:00 AM	12:20 PM	Junghyung Ryu	Late-Holocene Environmental Reconstruction and Depositional History from a Taxodium Swamp near Lake Pontchartrain in Southern Louisiana	Poster Hall D-F	EP21C-1865

TUESDAY

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	ROOM #	SESSION-PAPER
8:00 AM	12:20 PM	Andrew Courtois	A Regional Survey of River-plume Sedimentation on the Mississippi River Delta Front	Poster Hall D-F	EP21B-1841
8:00 AM	12:20 PM	Bo Wang	Morphodynamics of the Final 500 Kilometers of the Mississippi River	Poster Hall D-F	EP21C-1858
8:00 AM	12:20 PM	Fenglin Han	Source Apportionment of Polycyclic Aromatic Hydrocarbons in Louisiana	Poster Hall D-F	A21C-2173
8:00 AM	12:20 PM	Gilman Ouellette	African Dust Transport Captured by Rare Earth Elemental Concentrations in Coral Microatolls	Poster Hall D-F	PP21C-1277
8:00 AM	12:20 PM	Hamid Vahdat Aboueshagh	Toward Developing More Realistic Groundwater Models Using Big Data	Poster Hall D-F	H21A-1419
8:00 AM	12:20 PM	Hao Guo	Simulation of Summer Ozone Episodes in Southeast Louisiana during 2006-2015	Poster Hall D-F	A21J-2293
8:00 AM	12:20 PM	James Smith	Facies-dependent Variations in Sediment Physical Properties on the Mississippi River Delta Front, USA: Evidence for Depositional and Post-depositional Processes	Poster Hall D-F	EP21B-1839
8:00 AM	12:20 PM	Mayank Tyagi	Quantitative Risk Assessment (QRA) for an Underground Blowout Scenario in the Gulf of Mexico (GoM) Well	Poster Hall D-F	IN21A-0030
8:00 AM	12:20 PM	Nazanin Chaichitehrani	Sediment Transport over a Dredge Pit, Sandy Point Southeast, West Flank of the Mississippi River during Summer Upcoast Currents: a Coupled Wave, Current, and Sediment Numerical Model	Poster Hall D-F	EP21E-1896
8:00 AM	12:20 PM	Patrick Robichaux	Morphological Response of a Mud Capped Dredge Pit in Western Louisiana after Sand Excavation for Barrier Island Restoration	Poster Hall D-F	EP21E-1891
8:00 AM	12:20 PM	Philip Bart	Preserved Crevasse Casts in the Whales Deep Basin, Eastern Ross Sea	Poster Hall D-F	C21E-1160
8:00 AM	12:20 PM	Ramazan Karakullukcu	Development of A Mississippi River Alluvial Aquifer Groundwater Model	Poster Hall D-F	H21A-1417
8:00 AM	12:20 PM	Sanjeev Joshi	Comparison of Long-term Trends in Bedload Transport Above and Below the Old River Control Structure in the Lower Mississippi River	Poster Hall D-F	EP21C-1860
8:00 AM	12:20 PM	Soroush Sorourian	Development and Application of a Cohesive Sediment Transport Model in Coastal Louisiana	Poster Hall D-F	EP21E-1880
8:00 AM	12:20 PM	Xiaobin Cao	The Real Difference between Biotic and Abiotic Methane	Poster Hall D-F	B21A-1950
8:00 AM	12:20 PM	Yaping Xu	Downscaling SMAP Soil Moisture using Geoinformation Data and Geostatistics	Poster Hall D-F	H21I-1602

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	ROOM #	SESSION-PAPER
8:00 AM	12:20 PM	Yi-Jun Xu	What Would Happen if the Mississippi River Changed Its Course to the Atchafalaya?	Poster Hall D-F	EP21C-1855
8:20 AM	8:35 AM	Robert Twilley	Ecosystem Design Principles for Restoring Deltaic Floodplains: Examples from Mississippi River Delta	260-262	PA21E-02
9:30 AM	9:45 AM	Nina Lam	A National Assessment of Changes in Flood Exposure in the United States	267-268	GC21K-07
9:45 AM	10:00 AM	Shamim Murshid	A Two-Dimensional Model for Barrier Island and Inlet Morphodynamics: the Battle between Waves and Tide	353-355	EP21G-08
1:40 PM	6:00 PM	Scott Hagen/ Carol Wilson (Chairs)	The Sustainability and Resilience of Coastal Systems: Creating Synergy Among Federal, State, and NGO Initiatives III Posters	Poster Hall D-F	GC23C
1:40 PM	6:00 PM	Peter Clift (Chair)	Paleoclimate Variability in the Indo-Pacific Region IV Posters	Poster Hall D-F	PP23C
1:40 PM	3:40 PM	Patricia Persaud (Chair)	From the Lithosphere to the Delta: Academic and Industry Geophysical Data to Address Scientific and Societal Issues Across the U.S. Gulf Coast and Beyond	210	T21B
1:40 PM	6:00 PM	Annabeth McCall	Coastal Wetland Carbon Dynamics Across a Sediment Delivery Gradient in the Atchafalaya and Terrebonne Basins, Louisiana	Poster Hall D-F	GC23C-1074
1:40 PM	6:00 PM	Chang Liu	Spectral Reflectance Analysis of SW and N of the South China Sea with Their Paleoenvironmental Variation	Poster Hall D-F	PP23C-1337
1:40 PM	6:00 PM	Christopher Siverd	The Sustainability and Resilience of Coastal Systems: Creating Synergy Among Federal, State, and NGO Initiatives	Poster Hall D-F	GC23C-1082
1:40 PM	6:00 PM	Chunyan Li	Analysis and Synthesis of WAVCIS Data for Characteristics of Waves and Currents on Louisiana Coast	Poster Hall D-F	OS23A-1375
1:40 PM	6:00 PM	Cody Johnson	Morphological Modeling of a Low-Dune Barrier Headland System's Response to Hurricane Forcing Before and After a Large Scale Restoration	Poster Hall D-F	GC23C-1078
1:40 PM	6:00 PM	Denise DeLorme	Understanding Nuisance Flooding Conceptualizations and Concerns of Stakeholders in the Northern U.S. Gulf Coast	Poster Hall D-F	GC23C-1088
1:40 PM	6:00 PM	Jiaze Wang	The Coupling of Bay Hydrodynamics with Sediment Supply and Micro-tidal Wetland Stability under High Rates of Relative Sea Level Rise	Poster Hall D-F	GC23C-1080
1:40 PM	6:00 PM	Kathleen Eubanks	Using Public Input to Create a Better Online Flood Mapping Framework	Poster Hall D-F	ED23D-0328
1:40 PM	6:00 PM	Kelin Hu	A Numerical Study of Hydrodynamics and Sediment Transport in Fourleague Bay, Louisiana	Poster Hall D-F	GC23C-1075
1:40 PM	6:00 PM	Krista Falcon Myers	Groundwater and Thaw Legacy of a Large Paleolake in Taylor Valley, East Antarctica as Evidenced by Airborne Electromagnetic and Sedimentological Techniques	Poster Hall D-F	C23C-1228

## TUESDAY

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	ROOM #	SESSION-PAPER
1:40 PM	6:00 PM	Madison Wayt	Moat Development and Evolution on a Perennially Ice-Covered Lake in East Antarctica	Poster Hall D-F	C23C-1234
1:40 PM	6:00 PM	Pengfei Wang	Roles of Meteorology in Changes of Air Pollutants Concentrations in China from 2010 to 2015	Poster Hall D-F	A23B-2320
1:40 PM	6:00 PM	Puspa Adhikari	Distribution and Transport of Particle-bound Polycyclic Aromatic Hydrocarbons in a River-influenced Continental Margin: The Northern Gulf of Mexico	Poster Hall D-F	OS23A-1364
1:40 PM	6:00 PM	Ryan Clarke	What Role do "Nor'Easters" Have on the Jamaica Bay Wetlands Sediment Budget?	Poster Hall D-F	GC23C-1079
1:40 PM	6:00 PM	Ryan Lauve	Ground-Truthing of Airborne LiDAR using RTK-GPS Surveyed Data in Coastal Louisiana's Wetlands	Poster Hall D-F	GC23C-1077
1:40 PM	6:00 PM	Samuel Shrull	Spatial Trends and Variability of Vertical Accretion Rates in the Barataria Basin, Louisiana, U.S.A. Using Pb-210 and Cs-137 Radiochemistry	Poster Hall D-F	GC23C-1076
1:40 PM	6:00 PM	Shu Gao	Assessment of Remote Sensing Products and Hydrologic Simulation of the 2016 Louisiana Flood in the Amite River Basin	Poster Hall D-F	GC23C-1084
1:40 PM	6:00 PM	Wokil Bam	Temporal Variability in Sediment PAHs Accumulation in the Northern Gulf of Mexico Shelf	Poster Hall D-F	OS23A-1363
1:40 PM	6:00 PM	Xukai Zhang	Topographic Mapping in Densely Vegetated Coastal Environments using Terrestrial LiDAR	Poster Hall D-F	GC23B-1050
1:40 PM	6:00 PM	Yilin Mao	Field Applications of Coupled Temperature-Rate-Pressure Transient Analysis for Reservoir Characterization: Analytical Modeling	Poster Hall D-F	H23A-1622
1:40 PM	6:00 PM	Wei Huang	Cold Front Driven Water Transport between Lake Pontchartrain through Multiple Inlets	Poster Hall D-F	OS23A-1375
2:25 PM	2:40 PM	Yuting Li	Millennial and Centennial Variations in Zircon and Apatite in the Quaternary Indus Submarine Canyon	352	EP23E-04
2:40 PM	2:55 PM	Peter Clift	Signal Propagation in the Quaternary Indus Drainage System	352	EP23E-05
4:15 PM	4:30 PM	Slawo Lomnicki	Environmentally Persistent Free Radical (EPFRs) – Ambient Air Particulates, Soils, and Fate of Some Pollutants	393-394	A24B-02
4:40 PM	4:45 PM	Kehui Kevin Xu	Sediment Transport and Infilling Processes of Mud-Capped Dredge Pits on Louisiana Shelf	344-345	EP24C-03
4:45 PM	5:00 PM	Volodymyr Mihunov	TempTalk Changes in Community Resilience to Drought Hazard	260-262	GC24E-04

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	ROOM #	SESSION- PAPER
<b>WEDNESDAY, DEC. 13</b>					
8:00 AM	12:20 PM	Jeremiah Robinson	Inferring Causes of Marsh Loss from Spatial Patterns of Marsh Channel Widening	Poster Hall D-F	EP31B-1876
8:00 AM	12:20 PM	Taylor Rowley	What Do High-Resolution Point Clouds Actually See? A Comparison of LiDAR, MBES, and SfM Point Clouds	Poster Hall D-F	EP31D-1894
9:22 AM	9:25 AM	Yuyang He	Assessment of Stable Isotope Distribution in Complex Systems	231-232	IN33B-0114
10:20 AM	12:20 PM	Samuel Bentley (Chair)	Coastal Louisiana: Canary in the Coal Mine for Low-Elevation Coastal Zones	E2	U32A
10:30 AM	12:30 PM	Paige Jarreau	Communicating Your Science: Ask the Experts Workshop	First Floor, Sharing Science Room/Rivergate Room	
11:10 AM	11:25 AM	John Day	The Future of the Mississippi Delta: Shifting Baselines, Diminishing Resilience, and Growing Non-sustainability	E2	U32A-03
11:40 AM	11:55 AM	Matthew Bethel	Determining Coastal Hazards Risk Perception to Enhance Local Mitigation Planning through a Participatory Mapping Approach	265-266	U32A-05
1:30 PM	2:15 PM	Sam Bentley	Canary in the Coalmine: Subsidence in Coastal Louisiana Press Conference	346-347	
1:40 PM	6:00 PM	Anika Aarons	Vertical Record of Ecological Change and Carbon Storage in a Young Emergent Mississippi River Coastal Deltaic Floodplain	Poster Hall D-F	OS33A-1447
1:40 PM	6:00 PM	Brad Landry	Correlation of Terrestrial Gamma Flashes, Electric Fields, and Lightning Strikes (COTEL) in Thunderstorms using Networked Balloon Payloads Developed by University and Community College Students	Poster Hall D-4	AE33B-2544
1:40 PM	6:00 PM	Byron Ebner	In Situ and Ex Situ Estimates of Benthic Silica Fluxes in NGOM Shelf Sediments	Poster Hall D-4	OS33A-1437
1:40 PM	6:00 PM	David Susko	Petrologic Modeling of Magmatic Evolution in the Elysium Volcanic Province	Poster Hall D-F	V33E-0563
1:40 PM	6:00 PM	Deirdre Smith	The TETRA-II Experiment to Observe Terrestrial Gamma Flashes at Ground Level – Analysis of Nearby Thunderstorm Activity and Comparison with Lightning Data	Poster Hall D-F	AE33B-2536
1:40 PM	6:00 PM	Donald Pleshinger	Terrestrial Gamma Flashes at Ground Level – TETRA-II Instrumentation	Poster Hall D-F	AE33B-2542
1:40 PM	6:00 PM	Katie Bowes	Spatial and TempTalk Variability in Sediment P Distribution and Speciation in Coastal Louisiana	Poster Hall D-F	OS33A-1434

## WEDNESDAY–THURSDAY

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	ROOM #	SESSION-PAPER
1:40 PM	6:00 PM	Lei Zou	Leveraging Social Media Data to Understand Disaster Resilience: A Case Study of Hurricane Isaac	Poster Hall D-F	NH33A-0240
1:40 PM	6:00 PM	Michael Cherry	The TETRA-II Experiment to Observe Terrestrial Gamma Flashes at Ground Level — Preliminary Results	Poster Hall D-F	AE33B-2536
1:40 PM	6:00 PM	Robert Rohli	Spatial and TempTalk Climatic Variation in Coastal Tanzania	Poster Hall D-F	GC33B-1074
1:40 PM	6:00 PM	Shima Shamkhali Chenar	Integrated Application of Random Forest and Artificial Neural Network Algorithms to Predict Viral Contamination in Coastal Waters	Poster Hall D-F	H33C-1684
1:40 PM	6:00 PM	Songjie He	Dissolved Carbon Dynamics in the Freshwater-Saltwater Mixing Zone of a Coastal River Entering the Northern Gulf of Mexico	Poster Hall D-F	OS33A-1428
1:40 PM	6:00 PM	Vann Smith	Terrestrial Palynology of Paleocene and Eocene Sediments above the Chicxulub Impact Crater	Poster Hall D-F	P33D-2906
1:40 PM	6:00 PM	Yuyang He	Assessment of Stable Isotope Distribution in Complex Systems	Poster Hall D-F	IN33B-0114
1:40 PM	6:00 PM	Zelong Zhang	The Interfacial Energetics of the Oil Molecules Interactions with Shale Media using Molecular Dynamics Simulation	Poster Hall D-F	MR33A-0453
1:40 PM	6:00 PM	Kristine DeLong	A New View of Glacial Age Coastal Wetlands from a Well-Preserved Underwater Baldcypress Forest in the Northern Gulf of Mexico	Poster Hall D-F	PP33A-1317
5:15 PM	5:30 PM	Bijaya Karki	Transport Properties of CO <sub>2</sub> -bearing MgSiO <sub>3</sub> Melt at Mantle Conditions	206-207	MR34A-06

**THURSDAY, DEC. 14**

8:00 AM	12:20 PM	A'Shonte Reed	Negative Effects of Salinity on Water Fleas: Implications of Saltwater Intrusion on Freshwater Organisms	Poster Hall D-F	ED41A-0268
8:00 AM	12:20 PM	Briana Coleman	Louisiana Fuels Your Energy Needs	Poster Hall D-4	ED41A-0238
8:00 AM	12:20 PM	Chabari Taplin	Methyl Jasmonate Induced Resistance in Cheniere Rice and Soybean Plants	Poster Hall D-F	ED41A-0224
8:00 AM	12:20 PM	Derek Richards	Characteristics of Helical Flow through Neck Cutoffs	Poster Hall D-F	EP41A-1824
8:00 AM	12:20 PM	Dipta Ghosh	Vitreous Anorthite (CaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> ) at High Pressure: A First-Principles Molecular Dynamics Study	Poster Hall D-F	MR41A-0389
8:00 AM	12:20 PM	Don Hood	Mapping of Boulder Ejecta around Late Amazonian Impact Craters on Mars	Poster Hall D-F	P41C-2842



START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	ROOM #	SESSION-PAPER
8:00 AM	12:20 PM	Joshua Ellis	Crayfish Behavior Changes with CO <sub>2</sub>	Poster Hall D-F	ED41A-0267
8:00 AM	12:20 PM	J'Tyriah Woodson	Deplete! Deplete! Deplete!	Poster Hall D-F	ED41A-0218
8:00 AM	12:20 PM	Juan Lorenzo	TkPL_SU: An Open-source Perl Script Builder for Seismic Unix	Poster Hall D-F	NS41B-0014
8:00 AM	12:20 PM	Kingslee Vinson	The Effects of Natural Materials on Storm Runoff Chemistry	Poster Hall D-F	ED41A-0230
8:00 AM	12:20 PM	Laicha Issac	Investigation of Air Quality on Mood	Poster Hall D-F	ED41A-0216
8:00 AM	12:20 PM	LeAnne Riley	Repelling Mosquitoes with Essential Oils	Poster Hall D-F	ED41A-0222
8:00 AM	12:20 PM	MacQuail Coates	Role of Water Source in the Growth of Kale	Poster Hall D-F	ED41A-0215
8:00 AM	12:20 PM	Michael Wisham	Dirty Breathing	Poster Hall D-F	ED41A-0217
8:00 AM	12:20 PM	Mojtaba Mosaheb	Undesirable Leakage to Overlying Formations with Horizontal and Vertical Injection Wells	Poster Hall D-F	H41B-1440
8:00 AM	12:20 PM	Rasheed Ajala	Shallow Crustal Structure in the Northern Salton Trough, California: Insights from a Detailed 3-D Velocity Model	Poster Hall D-F	T41C-0633
8:00 AM	12:20 PM	Robert Cook	Monitoring the Chemical Nature of the Carbon Pool of Louisiana Wetland Soils Undergoing Erosion: Carbon Speciation and Redox Processes	Poster Hall D-F	B41F-2043
8:00 AM	12:20 PM	Sharmayne Williams	How Dirty Are Your Reusable Water Bottles?	Poster Hall D-F	ED41A-0225
8:00 AM	12:20 PM	Simron Thapa	Interactive Web-based Visualization of Atomic Position-time Series Data	Poster Hall D-F	MR41A-0387
8:00 AM	12:20 PM	Tyrone Whitmore	What's in Our Soil? How Soil Pollution Affects Earthworm Movement Patterns	Poster Hall D-F	ED41A-0231
8:53 AM	9:05 AM	Brandon Ballengee	Crude Life: The Art-Science Engagement Work of Brandon Ballengee	255-257	PA41B-05
1:40 PM	6:00 PM	Kristine DeLong (Chair)	Reconstructions of Paleoclimate and Paleoenvironment: Advances in Methods and Applications II Posters	Poster Hall D-F	PP43A
1:40 PM	6:00 PM	Yi-Jun Xu (Chair)	Progress in Biogeochemical Research of the World's Large Rivers I Poster	Poster Hall D-F	B43H

## THURSDAY

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	ROOM #	SESSION-PAPER
1:40 PM	6:00 PM	Clay Tucker	Maritime Coastlines: A New Ecosystem for Dendrochronological Analysis	Poster Hall D-F	PP43A-1329
1:40 PM	6:00 PM	Emily DeIDuco	Floodplain Impact on Riverine Dissolved Carbon Cycling in the Mississippi-Atchafalaya River System	Poster Hall D-F	B43H-2228
1:40 PM	6:00 PM	Herman von Holt	Theoretical Evaluation of Foam Proppant Carriers	Poster Hall D-F	H43I-1769
1:40 PM	6:00 PM	Jacob Warner	Modern Analogs for Prehistoric El Niño Variability: Evidence from Two Short-Lived Bivalve Species, <i>Donax Obesulus</i> and <i>Mesodesma Donacium</i>	Poster Hall D-F	PP43A-1331
1:40 PM	6:00 PM	Jeremy Reiman	Dissolved Carbon Fluxes During the 2017 Mississippi River Flood	Poster Hall D-F	B43H-2227
1:40 PM	6:00 PM	Jonathan Truong	Preliminary Micropaleontological Investigation of a Preserved, Late Pleistocene Cypress Forest on the Northern Gulf of Mexico Inner Shelf	Poster Hall D-F	PP43A-1337
1:40 PM	6:00 PM	Kendall Valentine	Biofilms' Contribution to Organic Carbon in Salt Marsh Sediments	Poster Hall D-F	B43D-2153
1:40 PM	6:00 PM	Kiran Upreti	Denitrification Rates in Newly Formed and Restored Wetlands of Coastal Louisiana	Poster Hall D-F	B43B-2122
1:40 PM	6:00 PM	Minghao Wu	Reconstructing the Neogene Paleohydrology of the Northern Tibetan Plateau with Molecular Proxy Studies	Poster Hall D-F	T43A-0670
1:40 PM	6:00 PM	Mingqiu Hou	Cenozoic Uplift and Climate Change of the Northeast Tibetan Plateau: Evidence from Leaf Wax Stable Isotopic Records	Poster Hall D-F	T43A-0671
1:40 PM	6:00 PM	Seung Kam	Modeling Study: Mechanism of Foam Propagation in Porous Media at Different Levels of Minimum Mobilization Pressure Gradient	Poster Hall D-F	H43I-1764
1:40 PM	6:00 PM	Skylar Bueche	Dissolved Oxygen Dynamics in Backwaters of North America's Largest River Swamp	Poster Hall D-F	B43H-2233
1:40 PM	6:00 PM	Suyapa Gonzalez Rodriguez	Stratigraphic Reconstruction of a Late Pleistocene Cypress Forest Discovered on the Northern Gulf of Mexico Continental Shelf	Poster Hall D-F	PP43A-1337
1:40 PM	6:00 PM	Marissa Vara	Assessment of the C-Talk Temperature Proxies for <i>Orbicella faveolata</i> in the Southwestern Gulf of Mexico	Poster Hall D-F	PP43A-1334
3:25 PM	3:40 PM	Sulav Dhakal	Simulation and Characterization of Methane Hydrate Formation	278-279	OS43B-08
4:00 PM	4:15 PM	Navid Jafari	Transient Flow through an Unsaturated Levee Embankment during the 2011 Mississippi River Flood	E3	H44E-01
4:00 PM	6:00 PM	Patricia Persaud (Chair)	Continental Rifts and Passive Margins: Geology, Geophysics, Geodynamics	211-213	T43D

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	ROOM #	SESSION- PAPER
4:45 PM	6:00 PM	Kristine DeLong	Film screening and Q&A: Underwater Forest	First Floor, Sharing Science Room/ Rivergate Room	
5:45 PM	6:00 PM	Gary King	Response of CO and H <sub>2</sub> Uptake to Extremes of Water Stress in Saline and Non-saline Soils	386-387	B44B-08
<b>FRIDAY, DEC. 15</b>					
8:00 AM	8:15 AM	Michael Polito	Quantifying Trophic Interactions and Carbon Flow in Louisiana Salt Marshes using Multiple Biomarkers	388-390	B51M-01
8:00 AM	12:20 PM	Peter Clift (Chair)	The Contribution of Ocean Drilling to Understanding the Cenozoic Tectonics and Climate History of the Indian Ocean and Environs II Posters	Poster Hall D-F	OS51B
8:00 AM	12:20 PM	Patricia Persaud (Chair)	Continental Rifts and Passive Margins: Geology, Geophysics, Geodynamics Posters	Poster Hall D-F	T43D
8:00 AM	10:00 AM	Robert Twilley (Chair)	Complexity in Geomorphological Systems: Networks, Connectivity, and Self-Organization I	352	EP51D
8:00 AM	12:20 PM	Carol Wicks	Are Isolated Wetlands Groundwater Recharge Hotspots?	Poster Hall D-F	H51C-1284
8:00 AM	12:20 PM	Jina Yin	Impact of Spatial Pumping Patterns on Groundwater Management	Poster Hall D-F	H51G-1355
8:00 AM	12:20 PM	Nazla Bushra	Modeling Tropical Cyclone Storm Surge and Wind Induced Risk Along the Bay of Bengal Coastline using a Statistical Copula	Poster Hall D-F	NH51A-0104
8:00 AM	12:20 PM	Patricia Persaud	A Bottom-driven Mechanism for Distributed Faulting: Insights from the Gulf of California Rift	Poster Hall D-F	T51D-0504
8:00 AM	12:20 PM	Qiaohui Pi	NanoSIMS U-Pb Dating of Hydrothermally Altered Monazite? Constraints on the Timing of Lao Zai Wan Carlin-type Gold Deposit in the Golden Triangle Region, SW China	Poster Hall D-F	V51A-0344
8:00 AM	12:20 PM	Richard Keim	Hydrological States and the Resilience of Deltaic Forested Wetlands	Poster Hall D-F	B51E-1841
8:00 AM	12:20 PM	Song Li	Nitrogen Fluxes across Hydrogeomorphic Zones in Coastal Deltaic Floodplain using Flow-through Technique	Poster Hall D-F	H51D-1298
8:45 AM	9:00 AM	John White	The Fate and Stability of Eroding Wetland Soil Carbon in a Subsiding Deltaic Coastal Plain	388-390	B51M-04
9:15 AM	9:30 AM	Andre Rovai	Modeling Global Mangrove Soil Carbon Stocks: Filling the Gaps in Coastal Environments	386-387	B51N-06
9:15 AM	9:30 AM	Shuang Cao	A 2D Micromodel Study of Fines Migration and Clogging Behavior in Porous Media: Implications of Fines on Methane Extraction from Hydrate-Bearing Sediments	278-279	OS51C-06

## FRIDAY

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	ROOM #	SESSION-PAPER
10:20 AM	12:20 PM	Robert Twilley (Chair)	Complexity in Geomorphological Systems: Networks, Connectivity, and Self-Organization II	352	EP52A
1:40 PM	3:40 PM	Patricia Persaud (Chair)	Continental Rifts and Passive Margins: Geology, Geophysics, Geodynamics	211-213	T43D
1:40 PM	3:40 PM	Kristine DeLong (Chair)	Reconstructions of Paleoclimate and Paleoenvironment: Advances in Methods and Applications I	343	PP53D
1:40 PM	6:00 PM	Robert Twilley (Chair)	Complexity in Geomorphological Systems: Networks, Connectivity, and Self-Organization III Posters	Poster Hall D-F	EP52A
1:40 PM	6:00 PM	Christina Powell	Influence of Black Mangrove Expansion on Salt Marsh Food Web Dynamics in Coastal Louisiana	Poster Hall D-F	B53E-1990
1:40 PM	6:00 PM	Mario Hernandez	Do Mangroves Subsidize Carbon to Adjacent Mudflat Fish Communities?	Poster Hall D-F	B53E-1987
1:40 PM	6:00 PM	Mary Grace Lemon	From Scientists to the Public: Communicating Science through Blogs on Oceanbites.org and Envirobites.org	Poster Hall D-F	ED53B-0167
1:40 PM	6:00 PM	Neha Ghaisas	Benthic Iron and Phosphorus Release from River Dominated Shelf Sediments under Varying Bottom Water O <sub>2</sub> Concentrations	Poster Hall D-F	B53E-1995
1:40 PM	6:00 PM	Nicole Button	Block Distribution Analysis of Impact Craters in the Tharsis and Elysium Planitia Regions on Mars	Poster Hall D-F	EP53B-1683
1:40 PM	6:00 PM	Sarah Dailey	The Sedimentology and Origins of a Giant Mass Transport Deposit: The Nataraja Slide, Arabian Sea	Poster Hall D-F	NH53B-0150
1:40 PM	6:00 PM	Z. George Xue	Assessing Hydroclimatic Change in Southwest Louisiana Rivers using WRF-Hydro	Poster Hall D-F	H53F-1519
2:40 PM	2:55 PM	Alexandra Christensen	Seasonal Changes in Connectivity and Nitrate Processing in Deltaic Floodplains	295-296	H53M-05
2:55 PM	3:10 PM	Achim Herrmann	Cryptic Crustal Events during the Taconic Orogeny Elucidated through LA-ICPMS Studies of Volcanic Zircons, Southern Appalachians, Alabama	206-207	V53B-06
4:00 PM	6:00 PM	Peter Clift (Chair)	The Contribution of Ocean Drilling to Understanding the Cenozoic Tectonics and Climate History of the Indian Ocean and Environs I	275-277	OS51B
4:30 PM	4:45 PM	Guangsheng Zhuang	Monsoonal Upwelling in the Western Arabian Sea Since the Middle Miocene	275-277	OS54B-03
4:45 PM	5:00 PM	Peng Zhou	Evolution of Continental Environments and Chemical Weathering in the Western Himalayan Foreland Basin Since 11 Ma	275-277	OS54B-04
5:15 PM	5:30 PM	John Day	Evaluating Trade-offs of a Large, Infrequent Diversion for Restoration of a Forested Wetland and Associated Ecosystem Services in the Mississippi Delta	280-282	H54A-06