

**DMS Seminars**  
**Spring, 2008**

January 25: **Charles Meador** and **David Wells** (USM) Learner-Centered Teaching.

February 08: **Igor Shulman** (Naval Research Laboratory (NRL)). Modeling of upwelling/relaxation events during Autonomous Ocean Sampling Network (AOSN) experiments in the Monterey Bay area.

February 15: **Harley Hurlburt** (NRL), E. Metzger (NRL), P. Hogan (NRL), C. Tilburg (University of New England), and J. Shriver (NRL). Abyssal current steering of upper ocean current pathways in an ocean model with high vertical resolution.

February 22: **Jessica Kastler** (USM). One scientist's experience in marine education with COSEE:CGOM.

February 29: **Alan Shiller** (USM). Dissolved and colloidal trace elements in rivers: problems and perspectives.

March 28: **Crystal Johnson** (USM). Pathogenicity in *Vibrio parahaemolyticus*.

April 11: **Karen Johannesson** (Tulane University). Arsenic biogeochemistry in groundwater flow systems.

April 18: **Toshiaki Shinoda** (NRL). Variability of intraseasonal Kelvin waves in the equatorial Pacific Ocean.

April 25: **Wej-Jun Cai** (University of Georgia). Inorganic carbon flux and metabolic balance in the Mississippi River plume and northern Gulf of Mexico: A preliminary study.

May 02: **Stephan Howden** (USM). Monitoring and assessment of marine ecosystems in the Northern Gulf of Mexico.

May 16: **Jerald Caruthers** (USM). The acoustics of oceanic bubbles: A tribute to Ralph R. Goodman and his research.

**DMS Seminars**  
**Fall, 2008**

August 22: **Kevin M. Yeager** (USM). Dioxin chronology and fluxes in Houston Ship Channel sediments: Non-steady state sediment transport and total organic carbon.

August 28: **Pim Kuus** and **John Hughes Clark** (Ocean Mapping Group, University of New Brunswick). SHOALS bottom tracking and waveform analysis.

September 12: **Joachim Goes** (Bigelow Laboratory for Ocean Sciences). Shrinking snowcaps and rising productivity: Response of the Arabian Sea to recent climate change (canceled).

September 26: **Antoine Cottin** (USM). Adaptation of the SHOALS technology to sedimentological coastal mapping, an example in the Baie des Chaleurs, Québec, Canada.

October 3: **Vince Lovko** (USM). The HABs and the HAB-nots: A story of potentially harmful dinoflagellates of the Chesapeake Bay (and beyond?).

October 10: **Yoko Furukawa** (NRL). Dispersion-aggregation characteristics of suspended materials in rivers and estuaries.

October 24: **Erin O'Reilly** (NRL). Biogeochemical regimes of Mississippi Sound: Its sudden destruction due to Hurricane Katrina, and its post-Katrina long-term natural recovery.

October 31: **Jinx Campbell** (USM). When does a plant become a marsh? Multi-trophic assessment metrics to evaluate marsh function.

November 7: **David Rosenfield** (USM). Observing TAO maintenance as a student ride-along: Perspectives and opportunities.

November 14: **Bjorn Stolpe** (USM). Colloidal size spectra of organic matter, iron and trace elements in river water and sea water.

November 21: **Karl Wallace** (USM). The development of molecular sensors for trace element detection.

**DMS Seminars**  
**Spring, 2009**

January 30: **Karen Orcutt** (USM). Nanostructured probes and sensors for oceanography.

February 06: **Kevin Boswell** (LSU). Spying on the fishes: The reality of life as a herring.

February 13: **Kyeong Park** (DISL). A modeling study of the estuarine turbidity maximum along the main channel of the upper Chesapeake Bay, USA.

February 20: **No DMS Seminar**: DMR/GCRL/USM seminar series at the MSU Coastal Research and Extension Center, Biloxi, MS. Speakers include: **Stephan Howden, Charlotte Brunner, Kevin Dillon, Kjell Gundersen and Buck Buchanan.**

February 27: **Sabine Heinhorst** (USM). Carboxysomes - Bacterial organelles that enhance CO<sub>2</sub> fixation.

March 6: **Les Bender** (TAMU). A wave height comparison from a 3m discus buoy during Hurricane Katrina.

March 13: **Sibel Barga** (LSU). From coastal zones to deep blue sea: *Pseudo-nitzschia* is everywhere! - An environmental concern?

March 27: **Wei Wu** (GCRL). Assessing hydrological and biogeochemical consequences of climate and land cover / land use change.

April 3: **Mark Kulp** (UNO). Geologic considerations for the management of the transgressive Mississippi River delta.

April 17: **Rodney Powell** (LUMCON). The importance of high temporal and spatial nutrient sampling in the Mississippi River and plume.

April 24: **Troy Pierce** (EPA). Gulf of Mexico Program projects, funding and job opportunities with the EPA.

May 1: **Don Redalje** (USM). Pumping algae: An alternative energy future.

May 6: **Nicholas V. C. Ralston** (UND). Understanding mercury risks and selenium benefits from seafood consumption.

**DMS Seminars**  
**Fall, 2009**

August 21: DMS Student Presentations

**Moo-Joon Shim.** Nutrient transport in the east Pearl River and St. Louis Bay, MS

**Chudong Pan.** A 3 dimensional variational data assimilation system in the Monterrey Bay, CA

September 11: **Dr. Jerry Wiggert (USM).** Seasonal evolution of phytoplankton bloom dynamics and dissolved oxygen within a coupled physical-biogeochemical model of Chesapeake Bay

September 18: DMS Student Presentations

**Allison Mojzis.** Water quality dynamics in the Bay of St Louis, MS

**Zhengzhen Zhou.** Optical properties of size fractionated dissolved organic matter in the lower Mississippi and Pearl Rivers

September 25: **Dr. Alice Ortmann (DISL).** Archaea and their viruses in marine ecosystems

October 2: **Dr. Geoff Sinclair (LUMCON).** Physical and chemical constraints on the near-bottom ecology of *Karenia brevis*

October 16: **Dr. Rusty Feagin (TAMU).** Coastal wetland responses to fault-induced sea level rise: Matagorda, TX

October 23: DMS Student Presentations

**Sarah Epps.** Temporal and spatial distribution of suspended particulate matter in the northern Gulf of Mexico

**DongJoo Joung.** Distribution of trace elements in Louisiana Shelf waters

October 30: **Dr. Joe Griffitt (USM).** Toxicology of metallic nanoparticles to aquatic and estuarine species

November 6: **Dr. Laodong Guo (USM).** Dynamics of carbon and nutrient species in the Mississippi River, Pearl River and northern Gulf of Mexico

November 13: **Dr. Will Hou (NRL).** Topics on underwater imaging.

November 20: DMS Student Presentations

**David Rosenfield.** Comparison of INSTANT transports with those from a regional Indonesian Seas model.

**Gopal Bera.** The delivery, speciation and fate of toxic metals in St. Louis Bay, MS.

**DMS Seminars**  
**Spring, 2010**

January 22: **Prasad Thoppil** (NRL). Circulation and eddies in the Persian Gulf.

January 29: **Vernon Asper** (DMS). Building and flying a home-built aircraft: A 24 year saga.

February 12: **Vasily Korabel** (UNO/NRL). A hybrid four-dimensional variational data assimilation scheme with ensemble error statistics. (Cancelled)

February 19: **DMS Student Seminars**:

**Sumit Chakraborty**. Phytoplankton dynamics in relation to surface water mass properties in the northern Gulf of Mexico and western north Atlantic Ocean.

**Yao Li**. Modeling the circulation in the southern Bering Sea.

February 26: **Asim Yousafzai** (USM). Aquifer storage and recovery: The case of artificial recharge in Columbia River Basalts, Portland, Oregon.

March 5: **Martin Montes** (Rutgers/NRL). Characterization of submarine thin layers based on ocean color patterns.

March 12: **Tommy Jensen** (NRL). Air-sea interaction in the Kuroshio extension region.

March 19: **Spring Break**.

March 26: **No DMS Seminar**: USM Graduate Student Research Symposium.

April 2: **Good Friday Holiday**.

April 9: **Brian Dzwonkowski** (DISL). Variability of the vertical structure of temperature and salinity on the shelf in the Northern Gulf of Mexico.

April 16: **Vasily Korabel** (NRL). A hybrid four-dimensional variational data assimilation scheme with ensemble error statistics.

April 22: **Justin Small** (NRL). Atmospheric response to ocean fronts in the tropics and midlatitudes.

April 23: DMS Student Seminars:

**Matthew Stone.** Measuring and comparing quantum yield in the marine diatom *Chaetoceros muelleri*, when subjected to constant and fluctuating light regimes.

**Michael Gonsalves.** Calibrating a laser point cloud using a least-squares adjustment.

April 29: Kelly Dorgan (UC-Berkeley). Worms in Jell-O: Biomechanics of burrowing in muddy sediments.

April 30: Ron Kiene (DISL). The fascinating role of dissolved DMSP in marine microbial ecology and biogeochemistry.

Date	Seminar Speaker	Seminar Title
20-Aug	Kevin Yeager (USM-DMS)	The Importance of Coastal Growth Faulting in Modifying Marsh Accretion Processes: Evidence from the Northern Gulf of Mexico
27-Aug	Zhongping Lee (MSU)	Interpretation of Ecosystem Status from Ocean Color Products Derived from Satellite Sensors
10-Sep	DMS Student Seminars (Heidingsfelder and Prouhet)	
17-Sep	Chunyan Li (LSU)	Development of Unmanned Survey Platforms and Application in Coastal Areas
24-Sep	Greg Carter (USM-GCGC)	Recovery of the Mississippi-Alabama Barrier Islands in the Five Years following Hurricane Katrina
1-Oct	Stanislaus Wartel (Free Univ. of Brussels)	Sediment Fate and Engineering in the Schelde Estuary (Belgium-The Netherlands)
22-Oct	Scott Milroy (USM-DMS)	The Summer of Glub: Preliminary Results from Hypoxia and Oil Spill Studies in the Mississippi Sound
29-Oct	DMS Student Seminars (Molina and Hartmann)	
12-Nov	Alan Shiller (USM-DMS)	Ongoing Oil Spill Research and a Primer on "CRDS"
19-Nov	Ron Kiene (DISL)	The fascinating role of dissolved DMSP in marine microbial ecology and biogeochemistry

Date	Student Author	Title of Thesis/Dissertation Defense	Degree
23-Sep	Allison K. Mozjiz	Explaining the Variability of Free-living and Attached Bacterioplankton Abundances in the Bay of St. Louis, Mississippi	MS - Marine Science
11-Oct	Lt. Michael Oliver Gonsalves	A Comprehensive Error Analysis and Method of Geometric Calibration for a Circular Scanning Airborne LIDAR	Ph.D. - Hydrographic Science
18-Oct	Virgilio Josué Maisonet-Montañez	Ocean Color Estimation of Sea-Surface Salinity in Louisiana Coastal Waters	MS - Marine Science



Date	Seminar Speaker	Seminar Title	Host	Abstract	
21-Jan	Ken Barbor (USM - Hydro)	CZMIL's Novel Approach in the Evolution of Airborne Lidar Bathymetry	Wiggert	No	
28-Jan	Rick Gould (NRL)	Mapping Coastal Hypoxia in the Northern Gulf of Mexico Using Satellite Optical Water Mass Classification	Wiggert	No	
4-Feb	DMS Student Seminars (Braatz and Wallmark)			No	
18-Feb	Alex Kolker (LUMCON)	Climate Change and Sedimentary Dynamics Along The Land/Sea Interface	Brunner	No	AqSci Meeting
25-Feb	Ed Overton (LSU)	Chemistry of the MC 252 Oil Spill: Implications for Remediation and Impacts	Asper	No	
18-Mar	Pat Fitzpatrick (MSU)	An Overview of GRI-SSC Research	Wiggert	No	
25-Mar	DMS Student Seminars (Dornback And Denton)			No	
8-Apr	William (Monty) Graham (DISL)	Microbial-zooplankton Trophic Linkages During the Deepwater Horizon Oil Spill	Wiggert	No	
15-Apr	John Harding (NGI)	The SURA Super-Regional Modeling Testbed: An Overview of the Shelf Hypoxia Team's Activities	Wiggert	No	
29-Apr	Conrad Johnson (CHL)	Development of 3D Applications at the CHL Visualization Center with Demonstrations		No	
Date	Student Author	Title of Thesis/Dissertation Defense	Degree		
11-May	MooJoon Shim	Dissolved And Colloidal Element Transport Through the Coastal Transition Zone	Ph.D. - Marine Science		
1-Jun	Matt Dornback	Temporal and Spatial Variability of Phytoplankton Biomass in Coastal Mississippi Waters	M.Sc. - Marine Science		
2-Jun	Andrea Braatz	An Analytical Study of Air-Sea CO2 Gas Exchange in the Northwest Mississippi Bight Region	M.Sc. - Marine Science		
22-Jun	Luz Molina	Phytoplankton Abundance and Species Composition in Relation to Environmental Parameters in Coastal Mississippi Waters	M.Sc. - Marine Science		
27-Jun	Ashley Lojek	Spatial and Temporal Variability of Particulate and Chromophoric Dissolved Organic Matter Absorption in the Northern Gulf of Mexico	M.Sc. - Marine Science		
25-Jul	Matthew Stone	Measuring and Comparing Quantum Yield in Two Species of Marine Phytoplankton Subjected to Static and Fluctuating Light Conditions	M.Sc. - Marine Science		
26-Jul	Chudong Pan	Application of a Hybrid 3D-VAR Data Assimilation System in the Monterey Bay to Study Regional Dynamics of the California Current System	Ph.D. - Marine Science		

Date	Seminar Speaker	Seminar Title
9-Sep	Dave Dodd (USM-HSRC)	CZMIL's Contribution to the Department of Marine Science and HSRC's Operational Capabilities
16-Sep	Xiaobiao Xu (USM-DMS)	Numerical simulation of the Nordic Seas overflow water in the subpolar North Atlantic
23-Sep	DMS Student Seminars (Locke and Boyette)	Student Seminars
30-Sep	Sharon Mesick (NOAA-NCDDC)	Navigating an Ocean of Data: Enabling Improved Science through Better Data Management
11-Oct (Tuesday)	Jeremy Prouhet (USM-DMS)	<b>THESIS DEFENSE</b> Quantifying Rates Of Autocompaction In The Pearl River Marsh, Louisiana
21-Oct	DMS Student Seminars (Carrott and Bera)	Student Seminars
28-Oct	Emanuel Coehlo (NRL)	Stochastic Plume Simulations for the Fukushima Accident and the Deep Water Horizon Oil Spill
8-Nov (Tuesday)	Jeremy Jackson (Scripps)	Brave New Ocean
18-Nov	Deepak Mishra (MSU)	Impact of the Gulf of Mexico Oil Spill on the Health and Productivity of Louisiana Salt Marshes

### Spring 2012

Date	Seminar Speaker	Seminar Title	Host	Abstract
27-Jan	Andrey Koch (USM - DMS)	Evolution of the Horizontal Density Compensation: Modelling Prospective	Wiggert	No
10-Feb	<b>DMS Student Seminars (Burnett and Mitra)</b>			No
17-Feb	Dick Crout (NDBC)	The Deepwater Horizon Incident as a Boost for Gulf of Mexico Monitoring and Research	Burnett	No
9-Mar	<b>DMS Student Seminars (Vandermeulen and Zhou)</b>			No
23-Mar	Ioannis Georgiou (UNO)	Differential Sedimentation in a Mississippi River Crevasse Splay: Upstream Controls, Bar Stratigraphy, and Implications for Coastal Restoration	Brunner	No
30-Mar	Liviu Giosan (WHOI)	Between History And Geology: Climate, Landscapes and People	Brunner	No
20-Apr	Paula Moreno (GCRL)	Prime Habitat of Bottlenose Dolphins in the Northern Gulf of Mexico: A Predictive Density Surface Model	Zhou	No
27-Apr	Kelly Robinson (DISL)	Gelatinous Zooplankton in the Gulf of Mexico and Beyond: Effects of Climate Variability and Future Climate Change	Graham	No
7-May	Ann Jochens (TAMU)	Gulf Studies	Graham	No
Date	Student Author	Title of Thesis/Dissertation Defense	Degree	
5-Mar	Lea Locke	Mode Water in the Sea of Japan: A Study on the Reproducibility of Mode Water in the Data-Assimilating Regional Navy Coastal Ocean Model	M.Sc. - Marine Science	
24-May	Andrew Quaid	Anode Material Testing for Marine Sediment Microbial Fuel Cells	M.Sc. - Marine Science	
1-Aug	Paul Burnett	Effects of Hypoxia and Nitrogen Fixation and Removal in the Mississippi Bight	M.Sc. - Marine Science	

**FALL 2012**

<b>Date</b>	<b>Seminar Speaker</b>	<b>Seminar Title</b>	<b>Host</b>	<b>Abstract</b>
14-Sep	<b>Clea Denamiel (USM - DMS)</b>	<b>The Congo River Plume: Impact of the Forcing on the Near-Field and Far-Field Dynamics</b>	Kamenkovich	Yes
21-Sep	<b>Bob Arnone (USM - DMS)</b>	<b>Characterizing the Marine Ecosystem Using Optical Remote Sensing, In Situ Observations and Physical Models</b>	Wiggert	Yes
24-Sep	<b>Dr. Pamela Buzas-Stephens (formerly of MWSU)</b>	<b>Use of Foraminifera for Ecological Assessment: Studies Along the Texas Gulf Coast</b>	Brunner	
19-Oct	<b>DMS Student Seminars (Epps and Moshogianis)</b>			No
26-Oct	<b>Behzad Mortazavi (DISL)</b>	<b>Carbon and Nitrogen Cycling Along a Continuum of Anthropogenic Impact</b>	McGehee	No
9-Nov	<b>John Kessler (Univ. Rochester)</b>	<b>Death of a Hydrocarbon Plume</b>	Roberts	No
16-Nov	<b>Lawrence Rouse (LSU)</b>	<b>Topic: Coastal Restoration in Louisiana</b>	O'Brien	No
30-Nov	<b>Todd Holland (NRL - Stennis)</b>	<b>Environmental Protection in Seafloor Sciences</b>	O'Brien	No
<b>Date</b>	<b>Student Author</b>	<b>Title of Thesis/Dissertation Defense</b>	<b>Degree</b>	
4-Oct	<b>Zhengzhen Zhou</b>	<b>Fluorescence and Size Characterization of Dissolved Organic Matter in Riverine and Sea Waters in the Northern Gulf of Mexico</b>	<b>Ph.D. - Marine Science</b>	

## Spring 2013

DATE	SPEAKER	PRESENTATION TITLE
18-Jan	Mr. Sumit Chakraborty	DISSERTATION DEFENSE: Phytoplankton Community Distribution and Light Absorption Properties in the Northern Gulf of Mexico
25-Jan	Dr. Germana Peggion (University of New Orleans)	A Realtime Operational Modeling System: Data to Model – Model to Data
15-Feb	Frank Hernandez (GCRL)	Linking Fisheries Oceanography, Ecology and Management Through Early Life History Research
27-Feb	Chet Rakocinski (GCRL)	Opening a Can of Worms: Crafting an Allometric Mass-Balance Model for Predicting Responses by the Macrobenthos to Hypoxia and Organic Enrichment
1-Mar	1.) Stephan O'Brien 2.) Gopal Bera	Student Presentations
8-Mar	Robert Leaf (GCRL)	Environmental Indices and Fishery Dynamics in the Northern Gulf of Mexico
22-Mar	Mike Landry (Scripps Inst. Oceanography)	Plankton Dynamics in the Oceans: Linking Integrated Process Studies to Models
5-Apr	1.) Katharine Woodard 2.) Bumjun Kil	Student Presentations
12-Apr	Wade Jeffrey (University of West Florida)	The Oil Spill and Bacteria in the Gulf of Mexico - it's not all bad
19-Apr	Toshiaki Shinoda (NRL)	Indonesian Throughflow Studies
22-Apr	John Dabiri (CalTech)	Do Swimming Animals Mix the Ocean?
26-Apr	Andy Evans (GCRL)	Control of Interrenal Steroidogenesis in the Elasmobranch Fishes



THE UNIVERSITY OF  
SOUTHERN  
MISSISSIPPI

# DEPARTMENT of MARINE SCIENCE

Fall 2013

## SEMINAR SERIES

11:00 AM | FRIDAYS | RM. 101 | BLDG. 1022

AUGUST 30

KATE SEGARRA | NOAA – OFFICE OF OCEANIC AND ATMOSPHERIC RESEARCH  
*Substantial Methane Consumption via Anaerobic Oxidation in Freshwater Wetland Sediments and Soils*

SEPTEMBER 13

YI CHAO | UNIVERSITY OF CALIFORNIA – LOS ANGELES  
*Operational Oceanography: Regional Ocean Modeling, Data Assimilation and Prediction*

20

KANCHAN MAITI | LOUISIANA STATE UNIVERSITY  
*Upper Ocean Particle Dynamics in and Around the Deepwater Horizon Well Site*

27

WILLARD (BILLY) MOORE | UNIVERSITY OF SOUTH CAROLINA  
*Biogeochemical Consequences of Seawater Intrusion into Coastal Aquifers*

OCTOBER 11

WEILIN HOU | NAVAL RESEARCH LABORATORY – STENNIS SPACE CENTER  
*Recent Advances on Underwater Vision Research*

25

FRANK HEITMULLER | USM – DEPARTMENT OF GEOGRAPHY & GEOLOGY  
*Geomorphic and Sedimentary Proxies for Historical and Contemporary Disturbances: Northern Gulf Coastal Plain*

NOVEMBER 8

ED LAWS | LOUISIANA STATE UNIVERSITY  
*The Earth's Changing Climate: Natural Cycles and Human Effects*

15

ALLISON PENKO | NAVAL RESEARCH LABORATORY – STENNIS SPACE CENTER  
*Multi-scale Modeling of Geophysical Flows: From the Ocean Seafloor to Surface*

22

FRANK MOORE | USM – DEPARTMENT OF BIOLOGICAL SCIENCES  
*Monitoring Migratory Birds along the Northern Coast of the Gulf of Mexico: An Integrated, Scale-Dependent Approach*

DEPARTMENT of  
MARINE SCIENCE

1020 Balch Blvd. | Stennis Space Center, MS 39529  
P: 228.688.3177 | F: 228.688.1121 | [www.usm.edu/marine](http://www.usm.edu/marine)



# DEPARTMENT of MARINE SCIENCE

## Spring 2014 Seminar Series

11:00 AM | FRIDAYS | RM 101 | BLDG 1022

JANUARY

17

**JAMES CIZDZIEL | UNIVERSITY OF MISSISSIPPI**

*Distribution and Cycling of Mercury Species in the Mid-South USA*

24

**REDWOOD (WOODY) NERO | NOAA – SOUTHEAST FISHERIES SCIENCE CENTER**

*Bloat and Float: Drift Modeling of Moribund Sea Turtles in Mississippi Sound*

31

**DENNIS MCGILLICUDDY | WOODS HOLE OCEANOGRAPHIC INSTITUTION**

*Modeling Blooms of Alexandrium fundyense in the Gulf of Maine: From Climatology to Forecasting*

FEBRUARY

14

**DAVID M. BORROK | UNIVERSITY OF LOUISIANA – LAFAYETTE**

*Fractionation of Zn Isotopes in Biologic and Anthropogenic Systems*

21

**GREGG JACOBS | NAVAL RESEARCH LABORATORY – STENNIS**

*Predicting Ocean Dynamical Effects on Material Deformation Evolution: Compacted Filaments*

MARCH

21

**JOAN BERNHARD | WOODS HOLE OCEANOGRAPHIC INSTITUTION**

*Story behind Foraminifera and Stromatolites*

28

**DEREK BURRAGE | NAVAL RESEARCH LABORATORY – STENNIS**

*Observing Coastal River Plumes and Fronts from Microwave and Optical Radiometers on Aircraft and Satellites*

APRIL

11

**FRANK MOORE | UNIVERSITY OF SOUTHERN MISSISSIPPI – BIOLOGICAL SCIENCES**

*Movement Biology of Migratory Birds in Relation to the Gulf of Mexico*

25

**KYLE STRAUB | TULANE UNIVERSITY**

*Process Controls on Stratigraphic Completeness and Basin Filling Sedimentation Patterns Along Passive Margins*

DEPARTMENT of  
**MARINE SCIENCE**

1020 Balch Blvd. | Stennis Space Center, MS 39529  
P: 228.688.3177 | F: 228.688.1121 | [www.usm.edu/marine](http://www.usm.edu/marine)



# DEPARTMENT of MARINE SCIENCE

## Fall 2014 Seminar Series

11:00 AM | FRIDAYS | BLDG 1022 | RM 101

- AUGUST 29** MUSTAFA KEMAL CAMBAZOGLU | UNIV. OF SOUTHERN MISSISSIPPI  
DEPT. OF MARINE SCIENCE  
*Impact of Model Resolution on Wind Predictions and Atmospheric Forcing for Ocean Models in Coastal Regions*
- SEPTEMBER 12** TORBJÖRN TÖRNQVIST | TULANE UNIVERSITY  
DEPT. OF EARTH & ENVIRONMENTAL SCIENCES  
*Tipping Points of Mississippi Delta Marshes Due to Accelerated Sea-level Rise*
- 19** HUIMING BAO | LOUISIANA STATE UNIVERSITY  
DEPT. OF GEOLOGY & GEOPHYSICS  
*Sulfate: A Time Capsule for Earth's O<sub>2</sub>, O<sub>3</sub>, and H<sub>2</sub>O*
- 26** ZUO (GEORGE) XUE | LOUISIANA STATE UNIVERSITY  
DEPT. OF OCEANOGRAPHY & COASTAL SCIENCES  
*Modeling Circulation and Biogeochemical Variabilities in the Gulf of Mexico*
- OCTOBER 11** DEREK BURRAGE | NAVAL RESEARCH LABORATORY  
OCEANOGRAPHY DIVISION, STENNIS SPACE CENTER  
*Airborne and Satellite Observation of Ocean Surface Salinity and Roughness: Combining Microwave Radiometry and Reflectometry*
- 24** JOE GRIFFITT | UNIV. OF SOUTHERN MISSISSIPPI  
DEPT. OF COASTAL SCIENCES  
*One Fish, Two Fish, Red Fish, DEAD FISH*
- 31** DUBRAVKO JUSTIC | LOUISIANA STATE UNIVERSITY  
DEPT. OF OCEANOGRAPHY & COASTAL SCIENCES  
*From Box Models to 3D Hypoxia Models: Can the Biology and Data Keep Up with Computers?*
- NOVEMBER 7** ARNE-R. DIERCKS | UNIV. OF SOUTHERN MISSISSIPPI  
DEPT. OF MARINE SCIENCE  
*A Dive into the Deep Sea with NIUST's AUVs*
- 14** JOHN ANDERSON | RICE UNIVERSITY  
DEPT. OF EARTH SCIENCE  
*Gulf Coastal Response to Global Climate Change*
- 21** RICHARD FULFORD | ENVIRONMENTAL PROTECTION AGENCY  
GULF ECOLOGY DIVISION  
*Evaluating Ecosystem-based Management of Oyster Restoration Using a Multi-species Bioenergetics Model*

DEPARTMENT of  
**MARINE SCIENCE**

1020 Balch Blvd. | Stennis Space Center, MS 39529  
P: 228.688.3177 | F: 228.688.1121 | [www.usm.edu/marine](http://www.usm.edu/marine)





# DEPARTMENT of MARINE SCIENCE

## Spring 2015 Seminar Series

11:00 AM | FRIDAYS | BLDG 1022 | RM 101

JANUARY 16

ZUO (GEORGE) XUE | LOUISIANA STATE UNIVERSITY  
DEPT. OF OCEANOGRAPHY & COASTAL SCIENCES  
*Modeling the Dynamics of Large River-derived Materials in the Coastal Ocean*

23

DENNIS HANSELL | UNIVERSITY OF MIAMI  
ROSENSTIEL SCHOOL OF MARINE & ATMOSPHERIC SCIENCE  
*Dissolved Organic Matter in the Deep Ocean Carbon Cycle*

30

JIM RICHMAN | NAVAL RESEARCH LABORATORY  
OCEANOGRAPHY DIVISION  
*Internal Waves in the Global Ocean*

FEBRUARY 13

TRACY QUIRK | LOUISIANA STATE UNIVERSITY  
DEPT. OF OCEANOGRAPHY & COASTAL SCIENCES  
*Variation in Labile Organic Carbon Accumulation in Spartina Alterniflora-dominated Salt Marshes of the mid-Atlantic US*

20

ALEX KOLKER | TULANE UNIVERSITY – CANCELED  
DEPT. OF EARTH & ENVIRONMENTAL SCIENCE  
*New Perspectives on the Flow of Water and Sediment in the Mississippi River Delta*

27

RALEIGH HOOD | UNIVERSITY OF MARYLAND  
CENTER FOR ENVIRONMENTAL SCIENCE  
*Biogeochemical Variability in the Indian Ocean*

MARCH 20

THOMAS SONIAT | UNIVERSITY OF NEW ORLEANS  
DEPT. OF BIOLOGICAL SCIENCES  
*Effects of Proposed Freshwater Diversions on Oyster Habitat Quality*

27

REBECCA GREEN | BUREAU OF ENERGY MANAGEMENT  
GULF OF MEXICO REGION  
*Applied Science Research and Environmental Monitoring to Inform Offshore Energy Management*

APRIL 17

MARGARET PALMSTEN | NAVAL RESEARCH LABORATORY  
SEDIMENT DYNAMICS SECTION  
*Modeling Dune Response to Extreme Storms*

24

JOHN WHITE | LOUISIANA STATE UNIVERSITY  
DEPT. OF OCEANOGRAPHY & COASTAL SCIENCES  
*Estuarine Ecosystem Response to Large Scale Mississippi River Diversions: A Nutrient Pulsing Experiment Through the Bonnet Carre Spillway*

DEPARTMENT of  
MARINE SCIENCE

1020 Balch Blvd. | Stennis Space Center, MS 39529  
P: 228.688.3177 | F: 228.688.1121 | [www.usm.edu/marine](http://www.usm.edu/marine)



# DEPARTMENT of MARINE SCIENCE

THE UNIVERSITY OF  
SOUTHERN  
MISSISSIPPI

## Fall 2015 Seminar Series

11:00 AM | FRIDAYS | BLDG 1022 | RM 101

- |     |  |  |
|-----|--|--|
| AUG | 28   | DR. BRIAN DZWONKOWSKI   UNIVERSITY OF SOUTH ALABAMA<br>DEPT. OF MARINE SCIENCES<br><i>Role of Discharge on the Hydrography and Circulation in the Coastal Waters of Alabama</i>                        |
|     | SEP  | 04   |
| OCT | 11   | DR. GALEN MCKINLEY   UNIVERSITY OF WISCONSIN–MADISON<br>ATMOSPHERIC AND OCEANIC SCIENCES & CENTER FOR CLIMATE RESEARCH<br><i>Separating Trends from Variability in the Ocean Carbon Cycle</i>          |
|     | 25   | DR. KAM-BIU LIU   LOUISIANA STATE UNIVERISTY<br>DEPT. OF OCEANOGRAPHY & COASTAL SCIENCES<br><i>Storm Deposition from Recent Hurricanes in Coastal and Estuarine Wetlands Across Southern Louisiana</i> |
|     | 02   | DR. MEGAN LA PEYRE   LOUISIANA STATE UNIVERSITY<br>DEPT. OF RENEWABLE NATURAL RESOURCES<br><i>Oyster and Reef Restoration in the Northern Gulf of Mexico</i>   |
| NOV | 19   | MS. ELIZABETH CHAMBERLAIN   TULANE UNIVERSITY<br>DEPT. OF EARTH AND ENVIRONMENTAL SCIENCES<br><i>Using the Geologic Record to Describe the Patterns and Rates of Delta Development</i>                 |
|     | 30   | DR. JOE GRIFFITT   UNIVERSITY OF SOUTHERN MISSISSIPPI<br>DEPT. OF COASTAL SCIENCES<br><i>One Fish, Two Fish, Red Fish, Dead Fish</i>   |
|     | 06   | DR. LEE ALEXANDER   UNIVERSITY OF NEW HAMPSHIRE<br>CENTER FOR COASTAL & OCEAN MAPPING – JOINT HYDROGRAPHIC CENTER<br><i>Electronic Charts and Marine Information Overlays: What, Why and How</i>       |
|     | 13   | DR. INIA SOTO RAMOS   UNIVERSITY OF SOUTHERN MISSISSIPPI<br>DEPARTMENT OF MARINE SCIENCE<br><i>Harmful Algal Blooms of the West Florida Shelf and Campeche Bank</i>                                    |
| 20  | DR. BRIAN ROBERTS   LOUISIANA UNIVERSITIES MARINE CONSORTIUM<br>DEFLICE MARINE CENTER<br><i>Louisiana Wetland Biogeochemistry and Microbial Community Dynamics Following the Deepwater Horizon Oil Spill</i> |  |

DEPARTMENT of  
MARINE SCIENCE

1020 Balch Blvd. | Stennis Space Center, MS 39529  
P: 228.688.3177 | F: 228.688.1121 | [www.usm.edu/marine](http://www.usm.edu/marine)



THE UNIVERSITY OF  
SOUTHERN  
MISSISSIPPI

# DEPARTMENT of MARINE SCIENCE

## Spring 2016 Seminar Series

11:00 AM | FRIDAYS | BLDG 1022 | RM 101

- |     |    |  |
|-----|----|--|
| JAN | 22 | DR. DAVID H. FABRE   NAVAL OCEANOGRAPHIC OFFICE<br>HYDROGRAPHIC DEPARTMENT MATHEMATICIAN<br><i>Parameterized Spectral Bathymetric Roughness Using the Nonequispaced Fast Fourier Transform</i>   |
|     | 29 | DR. ERIC SAILLANT   UNIVERSITY OF SOUTHERN MISSISSIPPI<br>DEPARTMENT OF COASTAL SCIENCES<br><i>Conservation Genetic and Genomics of Exploited Marine and Coastal Fishes in the Southeast United States and Caribbean Regions</i>                                     |
| FEB | 05 | DR. BRENT GOEHRING   TULANE UNIVERSITY<br>DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCE<br><i>Taking a Step Back to Take a Step Forward in Surface Exposure Dating</i>   |
|     | 12 | DR. JOSE DA SILVA   UNIVERSITY OF PORTO, PORTUGAL<br>DEPARTMENT OF GEOSCIENCES, ENVIRONMENT AND SPATIAL PLANNING<br><i>Effect of Internal Waves on Near Surface Chlorophyll Concentration and Primary Production in the Proximity of Nazare Canyon</i>               |
| MAR | 19 | MR. TIM MOLTSMANN   UNIVERSITY OF TASMANIA, AUSTRALIA<br>DIRECTOR OF AUSTRALIA'S INTEGRATED MARINE OBSERVING SYSTEM (IMOS)<br><i>Global Ocean Observing—An Australian Perspective</i>  |
|     | 04 | DR. ALEX KOLKER   TULANE UNIVERSITY<br>DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCE<br><i>New Perspectives on the Flow of Water and Sediment in the Mississippi River Delta</i>   |
| APR | 01 | DR. LUCIANO CHIAVERANO   UNIVERSITY OF SOUTHERN MISSISSIPPI<br>DEPARTMENT OF MARINE SCIENCE<br><i>Ecology of the Moon Jellyfish Aurelia in the Gulf of Mexico: Environmentally Induced Effects on Morphology and Reproduction</i>                                    |
|     | 08 | DR. PAUL ELMORE   NAVAL RESEARCH LABORATORY<br>MARINE GEOSCIENCES DIVISION<br><i>Research for New Algorithms to Enhance Deep-Water Bathymetry and Seafloor Knowledge</i>   |
| MAY | 22 | DR. CHRIS MEASURES   UNIVERSITY OF HAWAII<br>DEPARTMENT OF OCEANOGRAPHY<br><i>Atmospheric Dust Deposition to the Surface Waters of Global Oceans Estimated from Surface Water Dissolved Al: Comparison with Models and Biogeochemical Consequences</i>               |
|     | 29 | DR. PETER CLIFT   LOUISIANA STATE UNIVERSITY<br>DEPARTMENT OF GEOLOGY AND GEOPHYSICS<br><i>Climate-Tectonic Interactions in the Western Himalaya During the Cenozoic</i>   |
|     | 06 | DR. ERIC POWELL   UNIVERSITY OF SOUTHERN MISSISSIPPI<br>DIRECTOR – SCIENCE CENTER FOR MARINE FISHERIES (SCeMFis)<br><i>Long-Term Trends in Oyster Population Dynamics in the Gulf of Mexico and a Review of Possible Reference Points for Sustainable Management</i> |

DEPARTMENT of  
MARINE SCIENCE

1020 Balch Blvd. | Stennis Space Center, MS 39529  
P: 228.688.3177 | F: 228.688.1121 | [www.usm.edu/marine](http://www.usm.edu/marine)



THE UNIVERSITY OF  
SOUTHERN  
MISSISSIPPI

SCHOOL OF OCEAN SCIENCE AND TECHNOLOGY

DIVISION of MARINE SCIENCE

Fall 2016 Seminar Series

11:00 AM | FRIDAYS | BLDG 1022 | RM 101

- |     |           |   |
|-----|-----------|---|
| AUG | <b>26</b> | TIM OSBORN   NOAA-NOS: OFFICE OF COAST SURVEY<br>REGIONAL NAVIGATION MANAGER - CENTRAL GULF COAST<br><i>The Changing Coast and Gulf: The Needs and Means to Move Forward to Observe and Utilize Our Coastal, Nearshore and Offshore Environment</i>       |
| SEP | <b>02</b> | IOANNIS GEORGIU   UNIVERSITY OF NEW ORLEANS<br>DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCES<br><i>Interactions Between Backbarrier Marshes, Tidal Inlets, Ebb-deltas, and Adjacent Barriers Exposed to Rising Sea Levels: Observations and Modeling</i> |
|     | <b>09</b> | HELMUT PORTMANN   NOAA<br>NATIONAL DATA BUOY CENTER<br><i>NDBC— Saving Lives by Supporting Prediction, Forecast and Warnings for Natural Hazards</i>  |
|     | <b>16</b> | EILEEN HOFMANN   OLD DOMINION UNIVERSITY<br>CENTER FOR COASTAL PHYSICAL OCEANOGRAPHY<br><i>Modeling Southern Ocean Food Webs—Approaches and Challenges</i>  |
|     | <b>23</b> | JEFFREY KRAUSE   UNIVERSITY OF SOUTH ALABAMA<br>DAUPHIN ISLAND SEA LAB<br><i>Silicon Uptake and Accumulation in Picocyanobacteria</i>   |
|     | <b>30</b> | TIM MCCLINTON   DAVID EVANS AND ASSOCIATES<br><i>Merging “Big Data” and Machine-Learning Approaches with High-Resolution Hydrographic Data for Improved Submarine Geologic Mapping</i>  |
| OCT | <b>07</b> | LAURIE JUGAN   MISSISSIPPI ENTERPRISE FOR TECHNOLOGY (MSET)<br>PROJECT COORDINATOR<br><i>Stennis Career Opportunities</i>   |
|     | <b>14</b> | MARK BENFIELD   LOUISIANA STATE UNIVERSITY<br>COLLEGE OF THE COAST & ENVIRONMENT<br><i>Using in situ Optics to Study Zooplankton: Developments and Opportunities</i>  |
| NOV | <b>04</b> | FRANK MULLER-KARGER   UNIVERSITY OF SOUTH FLORIDA<br>INSTITUTE FOR MARINE REMOTE SENSING<br><i>Building Regional, National, and Global Marine Biodiversity Observation Networks (GmBON)</i>   |
|     | <b>11</b> | ALEXANDER YANKOVSKY   UNIVERSITY OF SOUTH CAROLINA<br>DEPARTMENT OF EARTH AND OCEAN SCIENCES<br><i>Scattering of a Semidiurnal Barotropic Kelvin Wave into Internal Waves over Wide Continental Shelves</i>   |
| DEC | <b>02</b> | ALEXIS LUGO-FERNANDEZ   BUREAU OF OCEAN ENERGY MANAGEMENT<br>ENVIRONMENTAL STUDIES SECTION<br><i>Kinematic Metrics of the Loop Current</i>  |
|     | <b>09</b> | MARK PUCKETT   UNIVERSITY OF SOUTHERN MISSISSIPPI<br>DEPARTMENT OF GEOGRAPHY & GEOLOGY<br><i>Plate Tectonics and Evolution: Ostracodes and the Breakup of Pangea</i>  |

DIVISION of  
MARINE SCIENCE

1020 Balch Boulevard | Stennis Space Center, MS 39529  
Phone: 228.688.3177 | Fax: 228.688.1121 | [www.usm.edu/ocean](http://www.usm.edu/ocean)

For visitor access please contact [jessica.browder@usm.edu](mailto:jessica.browder@usm.edu)



THE UNIVERSITY OF  
SOUTHERN  
MISSISSIPPI

# Division of Marine Science

COLLEGE OF OCEAN SCIENCE AND TECHNOLOGY

## Spring 2017 Seminar Series

11:00 AM | FRIDAYS | BLDG 1022 | RM 101

JAN	27	REBECCA MINZONI   UNIVERSITY OF ALABAMA DEPARTMENT OF GEOLOGICAL SCIENCES <i>Oceanographic Influences on Past and Present Ice Shelf Stability in Antarctica</i>
	FEB	03
MAR	24	BANDANA KAR   University of Southern Mississippi NATIONAL DATA BUOY CENTER <i>Crowdsourcing to Citizen Science—Assessing Big Data Relevance for Situation Awareness</i>
	03	DAVID SANDWELL   SCRIPPS INSTITUTION OF OCEANOGRAPHY INSTITUTE OF GEOPHYSICS & PLANETARY PHYSICS <i>Predicting Bathymetry from Satellite Altimetry: The Good, the Bad, and the Ugly</i>
	10	PAUL WHITMORE   NOAA-NATIONAL WEATHER SERVICE ALASKA TSUNAMI WARNING CENTER <i>Tsunami and NOAA's Tsunami Warning System</i>
APR	24	NATASHA DIMOVA   UNIVERSITY OF ALABAMA <i>The Importance of Groundwater Delivered N-fluxes to Mobile Bay, Alabama</i>
	31	ARNALDO VALLE-LEVINSON   UNIVERSITY OF FLORIDA CIVIL AND COASTAL ENGINEERING DEPARTMENT <i>Sea-level Rise Hot Spots Along the U.S. Atlantic Coast</i>
	07	ADAM GREER   UNIVERSITY OF SOUTHERN MISSISSIPPI DIVISION OF MARINE SCIENCE <i>A Matter of Scale: What can fine-scale Measurements Reveal About Plankton Communities and Biophysical Mechanisms of Ecosystem Productivity</i>
MAY	28	ALAN WEIDEMANN   NAVAL RESEARCH LABORATORY OCEAN SCIENCES BRANCH <i>LIDAR: The Ignored Ocean Sampling Technique</i>
	05	LEILA HAMDAN   UNIVERSITY OF SOUTHERN MISSISSIPPI DIVISION OF COASTAL SCIENCES <i>Microbial Stowaways: The Influence of Shipwrecks on Microbiome Dispersal and Natural Selection in the Deep-Sea</i>

COLLEGE OF OCEAN SCIENCE AND TECHNOLOGY

1020 Balch Boulevard | Stennis Space Center, MS 39529

Phone: 228.688.3177 | Fax: 228.688.1121 | [www.usm.edu/ocean](http://www.usm.edu/ocean)

For visitor access please contact [jessica.browder@usm.edu](mailto:jessica.browder@usm.edu)

USM DMS Fall 2017 Seminar Schedule			
Friday	18-Aug	Sarah Epps and Adam Boyette	Microplankton trophic dynamics within plankton thin layers in the northern Gulf of Mexico (Boyette) Uncertainty Issues Related to Optical Profiling Sensors at USM DMS (Epps)
Friday	25-Aug	Gero Nootz	Optical Turbulence in the Ocean
Friday	8-Sep	Brooke Jones	Spatial and temporal scenarios of VIIRS ocean color anomalies in the Northern Gulf of Mexico
Friday	15-Sep	Claire McKinley (Texas A&M)	Reconstructing the Paleogene Mode of Ocean Circulation in the Pacific Using Neodymium Isotopes
Friday	22-Sep	Marc Slattery (Univ. of Mississippi)	Soft Coral Community Responses to Climate Change
Friday	6-Oct	Ehab Meselhe (The Water Institute)	Biophysical Analysis of a Proposed Network of Sediment Diversions
Friday	27-Oct	Mike Stukel (FSU)	Plankton, carbon export, and the multiple pathways of the biological pump in the California Current Ecosystem
Friday	3-Nov	Bob Anderson (LDEO-Columbia)	Deep-sea oxygen depletion and ocean carbon storage during the last ice age
Friday	10-Nov	Robert Weiss (Virginia Tech)	Inferences of tsunami characteristics from deposits: A Journey to the edges of computability and back...if you can wait!
Friday	17-Nov	Eduard Reinhardt (McMaster University)	Sea-level and climate change and their effects on an unconfined anchialine aquifer, Yucatan Mexico
Friday	1-Dec	Junhong Liang (LSU)	Studying oceanic tracers with a large eddy simulation model
Friday	8-Dec	Grace Chang (Integral Consulting)	Tools and Techniques for evaluating water column, sediment and contaminant processes





## Seminar Series



### Seminar Schedule:

When: Fridays at 11am

Where: SSC Room 101, George Knauer (Bldg 1022)

#### January

- Friday, January 26  
John Lehrter: Dauphin Island Sea Lab | University of South Alabama  
*Getting to the bottom of carbon cycling in coastal sediments*

#### February

- Friday, February 9  
Peter Clift: Department of Geology and Geophysics | Louisiana State University  
*Climatic and tectonic controls on sediment supply to the South China Sea: Feedbacks on continental margin structure*
- Friday, February 23  
Giulio Mariotti: Department of Oceanography and Coastal Sciences | Louisiana State University  
*Long-term morphodynamics of coastal barrier systems*

#### March

- Friday, March 2  
Larry Mayer: Center for Coastal & Ocean Mapping | University of New Hampshire  
*Acoustic Mapping of Gas Seeps and Ocean Structure: From Deepwater Horizon to the Arctic*
- Friday, March 23  
Chan-Hoo Jeon: Division of Marine Science | University of Southern Mississippi  
*Improving global barotropic tides through two-way nesting in HYCOM*

#### April

- Friday, April 6  
Malinda Sutor: Department of Oceanography and Coastal Sciences | Louisiana State University  
*Offshore, deepwater plankton communities of the Northeast Gulf of Mexico*
- Friday, April 13  
Sam Bentley: Department of Geology and Geophysics | Louisiana State University  
*The Mississippi River Delta: How it formed, why it is disappearing, and why its conservation is a national issue*
- Friday, April 20  
Laura Brown and Laura Hode: Division of Marine Science | University of Southern Mississippi  
*Microalgae, biofuels, and wastewater remediation AND Gauging the response of Mississippi Bight surface*

*currents to the 2017 hurricane season*

- Friday, April 27  
Jeremy Deans: Department of Geography and Geology | University of Southern Mississippi  
*How the lower oceanic crust is made at slow-spreading mid-ocean ridges: Atlantis Bank Oceanic Core Complex, Southwest Indian Ridge*

May

- Friday, May 4  
*Cancelled--no seminar*



# Fall 2018 Seminar Series

11:00am–Noon | Fridays | Bldg. 1022 | Rm. 101

- |                  |    |   |
|------------------|----|---|
| <b>AUGUST</b>    | 31 | Laura Whitmore & Uchenna Nwanko   USM-Marine Science<br><i>Dissolved Ga as a tool to describe water masses &amp; GPS tide gauge on the coast of Mississippi Pearl River</i> |
| <b>SEPTEMBER</b> | 7  | Derek Sawyer   The Ohio State University<br><i>Seafloor deposition and erosion in response to three major hurricanes (Irma, Jose, and Maria) in the U.S. Virgin Islands</i> |
|                  | 14 | Maarten Buijsman   USM-Marine Science<br><i>Title TBA</i>   |
|                  | 28 | Steve DiMarco   Texas A&M University<br><i>Coastal dynamics and freshwater distribution associated with Hurricane Harvey aftermath</i>                                      |
| <b>OCTOBER</b>   | 5  | Xiangli (Shaun) Wang   Dauphin Island Sea Lab<br><i>Metal isotope proxies of the ocean redox state</i>  |
|                  | 19 | Admiral Shephard Smith   NOAA Office of Coast Survey<br><i>Title TBA</i>  |
|                  | 26 | Brian Roberts   Louisiana Universities Marine Consortium<br><i>Biogeochemistry of the Louisiana Shelf</i>   |
| <b>NOVEMBER</b>  | 2  | Kelly Darnell   USM-Gulf Coast Research Lab<br><i>Factors regulating plant-animal interactions in shallow benthic habitats</i>  |
|                  | 9  | Jessica Fitzsimmons   Texas A&M University<br><i>GEOTRACES View of Hydrothermal Vents</i>   |
|                  | 30 | Mark Kulp   University of New Orleans<br><i>Deep Faulting in the Northern Gulf</i>  |

Refreshments are served and all are welcome!

# Spring 2019 Seminar Series

11:00am–Noon | Fridays | Bldg. 1022 | Rm. 101

- |                 |    |   |
|-----------------|----|---|
| <b>JANUARY</b>  | 25 | Samuel Glasscock & Courtney Bouchard   USM-Mar. Sci.<br><i>Graduate student presentations</i>   |
| <b>FEBRUARY</b> | 1  | Ed Laws   Louisiana State University<br><i>Time lag effects on the apparent relationship between primary production and export ratios: Southern Ocean and St. ALOHA</i>                         |
|                 | 8  | Likun Zhang   University of Mississippi<br><i>Physical acoustics and fluid dynamics in oceanography</i>   |
|                 | 22 | Amelia Shevenell   University of South Florida<br><i>Initiation and long-term instability of the East Antarctic Ice Sheet</i>   |
| <b>MARCH</b>    | 1  | Padmanava Dash   Mississippi State University<br><i>Assessment of water quality using remote sensing technology</i>   |
|                 | 29 | Meg Palmsten   Naval Research Lab-Stennis Space Center<br><i>Ensemble hydro- and morpho dynamic simulations for munitions mobility and burial</i>   |
| <b>APRIL</b>    | 5  | Nicole Phillips   USM-Biological Sciences<br><i>Environmental DNA (eDNA) tools to studying sharks and rays in the northern Gulf of Mexico</i>   |
|                 | 12 | Luciano Chiaverano   USM-Gulf Coast Research Lab<br><i>Environmental effects on fine-scale, taxon-specific distributional patterns of gelatinous zooplankton in the northern Gulf of Mexico</i> |
| <b>MAY</b>      | 3  | Daniel Rudnick   Scripps Institution of Oceanography<br><i>Observing the regional effects of climate variability with the California Underwater Glider Network</i>                              |

Refreshments are served and all are welcome!

For questions contact: [Christopher.T.Hayes@usm.edu](mailto:Christopher.T.Hayes@usm.edu) or [Anand.Hiroji@usm.edu](mailto:Anand.Hiroji@usm.edu)

# Fall 2019 Seminar Series

11:00am–Noon | Fridays | Bldg. 1022 | Rm. 101

- |                  |    |  |
|------------------|----|--|
| <b>AUGUST</b>    | 30 | Amy Moody & Kandice Gunning   USM-Mar. Sci.<br><i>Graduate student presentations</i>   |
| <b>SEPTEMBER</b> | 27 | Wei Wu   USM Gulf Coast Research Lab<br><i>New Research in Landscape Ecology</i>   |
| <b>OCTOBER</b>   | 18 | Christine Cuicci   US Navy<br><i>DoD's High Performance Computing Modernization Program</i>  |
|                  | 25 | Alan Shiller   USM-Mar. Sci.<br><i>Trace Elements and Isotopes in the Ocean: Examples from GEOTRACES and how the small picture matters for the big picture</i> |
| <b>NOVEMBER</b>  | 1  | Gabriele Morra   University of Louisiana at Lafayette<br><i>Subduction, Megathrusts and Underwater Landslides: implications for tsunami hazard</i>             |
|                  | 8  | Brian Connon   USM-HSRC<br><i>Updates from USM's Hydrographic Science Research Center</i>  |
|                  | 22 | Beth Stauffer   University of Louisiana at Lafayette<br><i>Recent Research in Coastal Biological Oceanography</i>  |



# Spring 2020 Seminar Series

11:00am–Noon | Fridays | Bldg. 1022 | Rm. 101

## JANUARY

24 Carina Poulin | USM-Mar. Sci.  
*Phytoplankton optical properties and their diel variations*

31 Rich Delgado | USM-UMS program  
*The Center for Ocean Enterprise (\*Note Special Time: 9AM\*)*

## FEBRUARY

7 Dave Kadko | Florida International University  
*Quantifying atmospheric trace element deposition on a global scale with satellite-derived rainfall data*

## MARCH

6 Kyle Straub | Tulane University  
*Quantifying impediments for storage of environmental signals in marginal marine stratigraphy*

27 Kim Cobb | Georgia Institute of Technology  
*Climate change resilience in the 21st century - lessons from the frontlines*

## APRIL

3 Lynne Talley | University of California, San Diego  
*New research on the ocean's large-scale circulation*

## MAY

1 Ebenezer Nyadjro | Mississippi State University/NGI  
*Equatorial Indian Ocean Currents: variability and impacts on salinity*

8 Justyna Hampel | USM-Coastal Sci.  
*Hurricanes and blooms: effects of multiple disturbances on nitrification and ammonia oxidizers in Lake Okeechobee and St. Lucie Estuary (FL)*

Refreshments are served and all are welcome! To be added to the listserv contact: [Christopher.T.Hayes@usm.edu](mailto:Christopher.T.Hayes@usm.edu) or [Xiaodong.Zhang@usm.edu](mailto:Xiaodong.Zhang@usm.edu)

# Fall 2020 Seminar Series

**11:00am–Noon | Fridays | Microsoft Teams**

- |                  |    |  |
|------------------|----|--|
| <b>AUGUST</b>    | 28 | Harpreet Kaur & Johnson Oguntuase   USM-SOSE<br><i>Graduate student presentations</i>  |
| <b>SEPTEMBER</b> | 4  | Arne Diercks   USM-SOSE<br><i>Resuspension and redistribution of sediments in the deep Gulf of Mexico</i>  |
|                  | 18 | Uta Passow   Memorial University<br><i>The fate of the Deepwater Horizon Oil: Transport and transformation processes</i>   |
|                  | 25 | Jaime Palter   University of Rhode Island<br><i>The Gulf Stream as a driver of northeast Atlantic variability</i>  |
| <b>OCTOBER</b>   | 2  | Hilary Close   University of Miami<br><i>Microbial and metazoan pathways of organic matter degradation recorded in natural stable isotopes of marine particles</i> |
|                  | 16 | Shaily Rahman   USM-SOSE<br><i>Updates to the marine silica cycle with a focus on coastal processes</i>  |
|                  | 23 | Eric Chassignet   Florida State University<br><i>High-resolution modeling of the North Atlantic</i>  |
|                  | 30 | Sylvia Dee   Rice University<br><i>On the reliability of the El Niño-Southern Oscillation over the last millennium</i>   |
| <b>NOVEMBER</b>  | 20 | Sonya Legg   Princeton University<br><i>Submesoscale instabilities in dense bottom currents</i>  |

Links/Calendar Appointments to connect will be distributed by email.

For questions contact: [Christopher.T.Hayes@usm.edu](mailto:Christopher.T.Hayes@usm.edu) or  
[Xiaodong.Zhang@usm.edu](mailto:Xiaodong.Zhang@usm.edu)