Oil Spill & Ecosystem Science Conference

January 26-29, 2014 Mobile, Alabama

THANK YOU

We would like to thank the Executive Committee for its time and direction in planning the Conference.

Charles Wilson (Chair), *Gulf of Mexico Research Initiative* Michael Carron, *Gulf of Mexico Research Initiative* David Conover, *National Science Foundation* Alyssa Dausman, *U.S. Geological Survey* Allen Dearry, *National Institute of Environmental Health Sciences* Robert Detrick, *National Oceanic and Atmospheric Administration* Chris Elfring, *National Academy of Sciences* Peter Koufopoulos, *U.S. Food and Drug Administration* Paul Sandifer, *National Oceanic and Atmospheric Administration* David Shaw, *Gulf of Mexico Research Initiative* Andrew Shepard, *Gulf of Mexico University Research Collaborative* Suzanne van Drunick, *U.S. Environmental Protection Agency* Denis Wiesenburg, *Gulf of Mexico Research Initiative*

We also thank the staff of the Gulf of Mexico Research Initiative Management Team, which has been working so diligently behind the scenes to ensure everything runs smoothly.

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As we enter the fourth year of research following the Deepwater Horizon incident and associated investments focused on the Gulf of Mexico, the science community is now well positioned to deliver integrated findings both within the scientific community and to stakeholder groups. With this in mind, the Conference Executive Committee chose "Collaboration, Integration and Synthesis" as the overarching goals for the 2014 Conference. This year we look forward to hearing the latest scientific results in the fields of oil spill and ecosystem science of the Gulf of Mexico and to interdisciplinary discussion that will lead to tangible outcomes that require integration and synthesis across fields and themes. We are excited to be joined by approximately 800 colleagues and peers representing academia, government, non-government and private organizations.

The conference program is designed to bring together the research community to share new scientific results among the disciplines and develop recommendations or action plans for collaborative integration and synthesis or legacy products from post-spill investment in science. This will be done through 10 integrative sessions through which approximately 150 oral presentations and 400 poster presentations will be given. Sessions will take place January 26th, 27th & 28th. On January 29th we will gather in a Plenary Session to hear from a distinguished panel on the role of academia in responding to environmental disasters as well as the presentation and discussion of the Session outcomes.

We are pleased to have this opportunity to meet in Mobile, Alabama a city with much history, culture, and cuisine for you to explore. We thank the city for hosting us and hope you'll make the most of it during your free time. Finally, we would like to thank our Sponsors, the Executive Committee and the Conference Staff for all of your time and dedication in making this a successful conference.

Again, thank you for your participation. We hope you have a fantastic meeting and look forward to your participation in future events.

THANK YOU TO OUR SPONSORS!





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GULE OF MEXICO UNIVERSITY RESEARCH COLLABORATIVE









STAY CONNECTED!

In order to keep paper usage at a minimum, the Gulf of Mexico Oil Spill and Ecosystem Science Conference is offering most of its content digitally. All the information you need can be found on the conference webpage: http://gulfofmexicoconference.org/. In addition, there are many other ways to stay connected:

1) Download the official mobile application for the conference to:

- Get immediate conference updates and schedule changes;
- Find the conference schedule and abstracts:
- Create your own schedule;
- Upload pictures to be shared and used in future publications;
- Connect with Twitter and Facebook;
- Make notes and comments on scientific sessions you attend;
- · Find venue-specific and sponsor information;
- Blog about the event;
- · Plus more!
- 2) Visit our online searchable abstracts database at: http://delivr.com/23rag.

This year you can create a schedule through our online searchable abstracts database and sync it directly with our mobile app! Just create an Itinerary account online and be sure to login on the Mobile App with the same username and password, your schedules will sync automatically. A PDF of all conference abstracts is also available for download on our website.

3) Social Networking:

www.facebook.com/gomri



Check out our EPosters!

For the 2014 Gulf of Mexico Oil Spill and Ecosystem Science Conference, all accepted poster presenters are offered the opportunity to create an EPoster for the other attendees to view online before, during and after the conference.

What is an EPoster?

Electronic Posters (or EPosters) are a supplemental electronic version of the formal poster that will be presented during one of the two scheduled Poster Sessions at the 2014 Conference. They can include images, text, and media files including Audio and Video.

How do I view a specific EPoster?

Scan the QR Code to the right or visit: http://gulfofmexicoconference.org/program/ eposters/eposter-viewer-site-access/ to view our EPosters. Once uploaded, EPosters can be searched by presenter, title, and keyword. Just use your conference registration email address to access the site. Due to the sensitive nature of some EPoster content, EPoster viewing is restricted only to registered conference attendees.



Web Version http://ativ.me/gomri2014

Available on the

App Store

http://ativ.me/4i3

ANDROID APP ON Google play

http://ativ.me/1x2

For all other devices







CHECK-IN AND ON-SITE REGISTRATION:

Check-in and On-site Registration for pre-approved Federal Employees will take place in the 2nd Floor Foyer of the Renaissance Hotel.

The Registration Desk will be open:

Sunday, January 26	11:00am-6:00pm
Monday, January 27	8:00am-6:00pm
Tuesday, January 28	8:00am-6:00pm
Wednesday, January 29	8:00am-4:00pm

MEALS:

The following meals are provided as part of your registration fees for conference attendees.

Continental Breakfast in the 2nd Floor Foyer of the Renaissance Hotel:

Monday, January 27	starting at 7:30am
Tuesday, January 28	starting at 7:30am
Wednesday, January 29	starting at 7:30am

Lunch in the Moonlight Ballroom of the Battle House Hotel:

Monday, January 27	1:00pm-2:30pm
Tuesday, January 28	1:00pm-2:30pm
Wednesday, January 29	12:30pm-2:00pm

Breaks will take place in the 2nd Floor Foyer of the Renaissance Hotel.

WIFI/INTERNET:

WIFI and Internet are available to the conference participants throughout the conference venue free of charge.

The network at the Renaissance Hotel is **RiverviewMeeting** and the password is **gsc14**.

The network at the convention center is **gsc14** and the password is **oilspill14**.

*Wireless internet is not available in the Poster Hall.

EXHIBITS:

Exhibits from Conference Sponsors and Partners are located in the 2nd Floor Foyer for the duration of the conference. We encourage you to stop by during breaks!

INFORMATION FOR ORAL PRESENTERS

• You must upload your presentation in the Speaker Ready Room (located in the Riverboat Room) at least **one hour** before your Session is scheduled to begin. We advise that you upload your presentation the day before your session to avoid lines and ensure your presentation is uploaded in time.

• The Speaker Ready Room will be open at the following times:

Sunday, January 26 . . . 11:00am-5:00pm Monday, January 27 . . . 7:00am-6:00pm Tuesday, January 27 . . . 7:00am-6:00pm

- Your presentation should be no more than 12 minutes in length (unless you have been designated a 30 minute time slot). This allows for the transition of speakers and keeps the session running on time.
- The conference will provide a laptop with your presentation pre-loaded, and a laser pointer.
- Please make sure your presentation is in 2003-2007 Power Point format. This will minimize technological disruptions during the meeting. You will be able to test your presentation ahead of time in the Speaker Ready Room.

INFORMATION FOR POSTER PRESENTERS

- Posters will hang in the Ballroom at the Convention Center from Monday afternoon through the duration of the conference. The Convention Center is adjacent to the Renaissance Hotel where the other meeting activities will be held.
- Poster Set Up: Monday, January 27 1:00pm-6:00pm
- Poster Tear Down: Posters must be removed by 4:00pm on Wednesday, January 29. Any posters not removed by this time will be discarded.
- Maximum poster size is 48in high x 48in wide. Posters larger than this will not be accepted at the conference.
- We are excited to announce the use of ePosters at the conference for more information, please see page 3.

MEDIA POLICY

The Media Room is located on the first floor of the hotel in the Windjammer Room. Media representatives are welcome to attend the 2014 Gulf of Mexico Oil Spill & Ecosystem Science Conference.

The Conference's media policy is designed to ensure a professional forum in which presenters and other meeting registrants can discuss science-based issues freely and in which their concerns about proprietary research data and other information is acknowledged and respected. It is also designed to ensure a forum in which journalists and other media representatives can gather the information they need to deliver factual reporting.

The Conference intends to assist media representatives by keeping them updated through press releases, news updates and social media. The Conference will also help journalists by arranging interviews with Conference speakers and attendees.

In return, the Conference would like all media representatives to:

- Wear the designated media badge given to them by Conference organizers and identify themselves as a member of the press when attending Conference events or talking with any Conference participants.
- Obtain permission from Conference Communications and Media Staff before filming, taping or otherwise recording any activity or interview at the Conference. Broadcast journalists can record the Plenary Session, but audio and video taping of any scientific session is not permitted.
- Any media representative, who sells, markets or represents a company for purposes
 of obtaining advertising or subscriptions from any registrant will immediately forfeit
 press credentials.

PHOTO POLICY

Attendees are permitted to take photos during the conference.

Official Conference photographs will be taken at the Gulf of Mexico Oil Spill & Ecosystem Science Conference. By registering for this Meeting, you agree to allow the Conference to use your photo in any subsequent Conference-related publication or website.

AUDIO & VIDEO POLICY

Attendees of the Gulf of Mexico Oil Spill & Ecosystem Science Conference are not permitted to record, film or tape any scientific session.

CELL PHONE POLICY

Out of courtesy to our speakers and attendees, we require that all cell phones be turned off during sessions and meetings.

MEETING FLOOR PLANS

Activities for the 2014 Gulf of Mexico Conference will take place in three different buildings:

Renaissance Mobile Riverview Plaza Hotel

64 South Water Street, Mobile, Alabama 36602

The majority of conference activities will take place here including, scientific sessions, breakfast, breaks, exhibits and plenary session.

Mobile Arthur R. Outlaw Convention Center

One South Water Street Mobile, AL 36602

Sessions 001 & 002 on Sunday and the Monday and Tuesday night Poster Sessions and Receptions will take place at the Convention Center. The Convention Center is connected to the Renaissance Mobile Hotel by a skywalk. The skywalk is located on the Second Floor of the Hotel next to the Mobile Bay Meeting room.



Battle House Renaissance Mobile Hotel & Spa

26 North Royal Street, Mobile, Alabama 36602

Conference lunches will be held here in the Moonlight Ballroom. The Battle House Hotel is an easy 5 minute walk from the Renaissance Hotel. Exit the main entrance of the Renaissance Mobile Hotel, turn right onto Royal Street. Cross over Dauphin St and the Battle House will be on your right.



Hotel 4th Floor







CONFERENCE AT-A-GLANCE

Time	S	Sunday, Jan 26	Time	Monday, Jan 27
7:30a			7:30a	Breakfast Available
8:00a]		8:00a	Limited Registration and Check-In (8am-6pm)
8:30a			8:30a	Presentation Upload (7am-6pm)
9:00a			9:00a	
9:30a			9:30a	Conference Introduction
10:00a			10:00a	Sessions 003, 004, 006, 007
10:30a			10:30a	
11:00a			11:00a	Break (30 mins)
11:30a			11:30a	
12:00p	Check-in &		12:00p	Sessions 003, 004, 006, 007
12:30p	limited on-site		12:30p	
1:00p	Dresentation		1:00p	
1:30p	upload		1:30p	Lunch (90 mins)
2:00p	(until 5pm)	Sessions 001, 002	2:00p	
2:30p			2:30p	Sessions 003 004 006 007
3:00p			3:00p	ster
3:30p		Break (30 mins)	3:30p	Break (30 mins) Og
4:00p			4:00p	Б. International Provide Prov
4:30p		Sessions 001 002	4:30p	Sessions 003 004 006 007
5:00p			5:00p	
5:30p			5:30p	
6:00p			6:00p	
6:30p			6:30p	
7:00p			7:00p	Poster Session & Reception
7:30p			7:30p	
8:00p			8:00p	
				Exhibits open 8am-6pm

*Associated events can be found on page 64

Time	Tuesday, Jan 28	Time	Wednesday, Jan 29
7:30a		7:30a	Breakfast Available
8:00a	Breakfast Available	8:00a	Limited Registration and Check-In (8am-3:45pm)
8:30a	Limited Registration and Check-In (8am-6pm) Presentation Upload (7am-6pm)	8:30a	
9:00a		9:00a	Plenary Papel
9:30a		9:30a	Fieldly Fallel
10:00a	Sessions 005, 008, 009, 010	10:00a	
10:30a		10:30a	Break (30 mins)
11:00a	Break (30 mins)	11:00a	
11:30a		11:30a	Report out of Sessions
12:00p	Sessions 005, 008, 009, 010	12:00p	
12:30p		12:30p	
1:00p		1:00p	Lunch (90 mins)
1:30p	Lunch (90 mins)	1:30p	
2:00p		2:00p	
2:30p	Sessions 005, 008, 000, 010	2:30p	Report out of Sessions
3:00p	Sessions 003, 008, 009, 010	3:00p	and Conference Wrap Up (ends at 3:45pm)
3:30p	Break (30 mins)	3:30p	
4:00p		4:00p	
4:30p	Sessions 005, 008, 000, 010	4:30p	
5:00p		5:00p	
5:30p		5:30p	
6:00p		6:00p	
6:30p		6:30p	
7:00p	Poster Session & Reception	7:00p	
7:30p		7:30p	
8:00p		8:00p	
	Exhibits open 8am-6pm Poster Hall open 8am-8pm		Exhibits open 8am-3:45pm Poster Hall open 8am-4pm

*Associated events can be found on page 64

Setting a purse seine off the *R/V Wilson* around a water hyacinth weed mat. (Photo Credit: T. Spearman, DISL)

SUNDAY JANUARY 26

11:00a-6:00p	Registration & Check-in Open	Foyer
11:00a-6:00p	Exhibit Set Up	Foyer
11:00a-5:00p	Speaker Ready Room Open (Presentation Upload)	Riverboat Room

Scientific Program Schedule

1:00p-3:30p	Session 001	203 A&B (Convention Center)
1:00p-3:30p	Session 002	204 A&B (Convention Center)
3:30p-4:00p	Break	Pre-function area (Convention Center)
4:00p-6:00p	Session 001	203 A&B (Convention Center)
4:00p-6:00p	Session 002	204 A&B (Convention Center)

Associated Meetings and Events

1:00p-6:00p	Nearfield Modeling Session	Schooner
1:00p-6:00p	Advancing Deep Sea Science: A Tribute to Ray Highsmith	Mobile Bay Ballroom II & III
1:00p-5:00p	Dispersants Session	Grand Bay Ballroom
5:00p-6:00p	Hydrocarbon Chemical Analyses QAQC	Grand Bay Ballroom

Session 001

EDUCATION AND OUTREACH: SETTING THE RECORD STRAIGHT: DEBUNKING MYTHS AND MISCONCEPTIONS ABOUT OIL IN THE GULF AND PROMOTING OCEAN LITERACY

Sunday, January 26, 1:00pm-6:00pm, 203 A/B (Convention Center)

Session Chairs:

Tina Miller-Way, Dauphin Island Sea Lab* Teresa Greely, University of South Florida Laura Bracken, University of Miami Tracy Ippolito, Florida State University

In this session, we will bring together ocean scientists who represent the 2014 Conference's disciplinary themes (i.e., physical processes, chemistry, ecosystem, technology, and public health) and outreach specialists to address common misconceptions about oil in the Gulf of Mexico. Scientists: This is your chance to address any assumptions and false "knowledge" about the oil spill that you've encountered when talking with non-scientific audiences. We want to set the record straight! Outreach specialists: Let's share our challenges and success stories in communicating the science of oil spills and work together to make our messages more accurate and informative. In the afternoon discussion, we will distill the myths and facts relayed during the presentations into public-friendly statements and develop a plan for broad dissemination.

Time	Title	Presenter	Student
1:00p-1:15p	An Education at Elmer's Island: How I spent \$2K on CAT scans	Christopher Reddy, WHOI	No
1:15p-1:30p	Oil in the Gulf: This is Not Alaska!	Christina Simoniello, Gulf of Mexico Coastal Ocean Observing System	No
1:30p-1:45p	Modeling and Predicting the Transport of Oil in the Gulf of Mexico and Florida Straits	Arthur Mariano, U of Miami/RSMAS	No
1:45p-2:00p	Detecting Impacts to Animal-Sediment Relationships from the Deepwater Horizon Accident: A Worms Eye View	Joseph Germano, Germano & Associates, Inc.	No
2:00p-2:15p	It isnt over until its over: fostering public understanding of the potential long- term effects of the Deepwater Horizon spill to ecosystem health	Joel Kostka, Georgia Institute of Technology	No
2:15p-2:30p	Vocabulary of DWH Oil Spill Seafood Toxicology: Optimizing Communications and Comprehension for Gulf of Mexico Coastal Residents	Andrew Kane, University of Florida, Aquatic Pathobiology Laboratories	No
2:30p-2:45p	Oil Spill and Dispersant Risk Communication	Ann Walker, SEA Consulting Group	No
2:45p-3:00p	The BP Oil well failure in the Gulf of Mexico: perceptions and reality	Richard Snyder, University of West Florida	No
3:00p-3:15p	They Dont Read the New York Times in Grand Isle II: A Scientists Take on Dispelling Myths About DWH Science	Philip Hoffman, NOAA Cooperative Institute Program	No
3:15p-3:30p	Introduction to Facilitated Discussion	Heidi Stiller, NOAA	
3:30p-4:00p	Coffee Break		
4:00p-6:00p	Facilitated Discussion	Heidi Stiller, NOAA	

Session 002

DATA MANAGEMENT AND INFORMATICS SUPPORTING GULF OF MEXICO OIL SPILL AND ECOSYSTEM SCIENCE

Sunday, January 26, 1:00pm-6:00pm, 204 A/B (Convention Center)

Session Chairs:

Matthew Howard, Texas A&M University* Dave Reed, Fish and Wildlife Research Institute Fabio Moretzsohn, Texas A&M University – Corpus Christi Amy Merten, NOAA

The number of research studies in the Gulf of Mexico has increased recently due to the decade-long Gulf of Mexico Research Initiative and other concurrent programs. These studies are producing numerous heterogeneous data sets and model outputs, both large and small. The challenge is to assemble, integrate, and analyze these distributed data collections to support intelligent decision-making. Data Management (data stewardship) and Informatics (the science of processing, managing, and retrieving information) are key components of the next generation of data management systems. Regional, national, and private sector groups are working hard to develop and deploy a cyberinfrastructure for interoperable networked data systems to support contemporary environmental research. These systems will enable researchers and resource managers to locate, retrieve and visualize observations and model output more easily. This session's conveners invite all people working to integrate comprehensive environmental data sets and model output with application to scientifically-based decision-making, especially in the context of oil spill response and restoration and policy, to present their work in this session.

Time	Title	Presenter	Student
1:00p-1:15p	Session Introduction	Matthew Howard, Texas A&M University	
1:15p-1:30p	Gulf of Mexico hydrocarbon database: Integrating heterogeneous data for improved model development	Anne Thessen, University of Maryland Center for Environmental Science	No
1:30p-1:45p	Dataset granularity challenges at Deep-C data center	Shawn Smith, Florida State University	No
1:45p-2:00p	What is a Sample? (Complexities of Sharing Contaminant Data Across Multiple Data Management Platforms)	Peggy Myre, Exa Data & Mapping	No
2:00p-2:15p	Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC) Dataset Lifecycle: Early Lessons	Felimon Gayanilo, Texas A&M University-Corpus Christi	No
2:15p-2:30p	Whats in a Name? Vocabularies for Search, Browse and Interoperability	Matthew Howard, Texas A&M University	No
2:30p-2:45p	Simulocean: a web-based deployment and visualization framework for coastal modeling and beyond	Jian Tao, Louisiana State University	No
2:45p-3:15p	Database and Visualization Tools for Complex Data Sets Generated from the Analysis of the Deepwater Horizon Oil Spill	Ryan Rodgers, NHMFL at Florida State University	No
3:00p-3:15p	Progressing from data to information: using GIS to improve management of coral and fisheries resources in the Gulf of Mexico	Mark Mueller, Gulf of Mexico Fishery Management Council	No
3:15p-3:30p	Delivering an abundance of data associated with the Deepwater Horizon accident: streamlining access to DWH data	Dennis Beckmann, BP	No
3:30p-4:00p	Coffee Break		
4:00p-4:15p	Breaking Through Information Silos 1: Leveraging Business Intelligence (BI) Tools to Integrate Scientific Data	Jim Anderton, Solea Solutions	No
4:15p-4:30p	Breaking through Information Silos 2: Facing the Challenge of Standardizing Data from Disparate Sources	Ann Jones, IEc	No
4:30p-4:45p	Breaking through Information Silos 3: Increasing Scientific Collaboration and Learning through Advanced Data Searching, Visualizing, and Reporting	Ben Shorr, NOAA	No
4:45p-5:00p	Integrating GNOME and Hydrodynamic Modeling for Bay and Estuary Oil Spill Predicition	Xianlong Hou, University of Texas at Austin	No
5:00p-6:00p	Facilitated Discussion	Matthew Howard, Texas A&M University	

Research teams field test the process to accurately release drifters for the GLAD experiment in August 2012. Top left to right: Marine Operator David Nadeau, GLAD Cruise Chief Scientist Dr. Brian Haus, and CARTHE Director Dr. Tamay Özgökmen. (Photo Credit: CARTHE Consortium, J. Olascoaga, UMiami)

MONDAY JANUARY 27

8:00a-6:00p	Registration & Check-in Open	Foyer
8:00a-6:00p	Exhibits Open	Foyer
7:00a-6:00p	Speaker Ready Room Open (Presentation Upload)	Riverboat Room
1:00p-6:00p	Poster Hang-Up	Main Ballroom (Convention Center)

Scientific Program Schedule

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7:30a	Breakfast	Foyer
9:00a-11:00a	Session 003	Bon Secour Bay I
9:00a-11:00a	Session 004	Bon Secour Bay II
9:00a-11:00a	Session 006	Mobile Bay Ballroom
9:00a-11:00a	Session 007	Bon Secour Bay III
11:00a-11:30a	Break	Foyer
11:30a-1:00p	Session 003	Bon Secour Bay I
11:30a-1:00p	Session 004	Bon Secour Bay II
11:30a-1:00p	Session 006	Mobile Bay Ballroom
11:30a-1:00p	Session 007	Bon Secour Bay III
1:00p-2:30p	Lunch	Moonlight Ballroom (Battle House Hotel)
2:30p-3:30p	Session 003	Bon Secour Bay I
2:30p-3:30p	Session 004	Bon Secour Bay II
2:30p-3:30p	Session 006	Mobile Bay Ballroom
2:30p-3:30p	Session 007	Bon Secour Bay III
3:30p-4:00p	Break	Foyer
4:00p-6:00p	Session 003	Bon Secour Bay I
4:00p-6:00p	Session 004	Bon Secour Bay II
4:00p-6:00p	Session 006	Mobile Bay Ballroom
4:00p-6:00p	Session 007	Bon Secour Bay III
6:00p-8:00p	Poster Session & Reception (Sessions 003, 004, 006, 007)	Main Ballroom (Convention Center)
Associated M	leetings and Events	

5:30p-7:00p	C-MEDS/Metcalf Oil Spill Science Seminar for Journalists	Schooner
6:30p-8:30p	Marine Oil Snow Sedimentation & Flocculent Accumulation (MOSSFA) Town Hall meeting	Moonlight Ballroom (Battle House Hotel)

Session 003

IMPACT OF GULF OF MEXICO PHYSICAL PROCESSES ON CHEMICAL AND BIOLOGICAL TRANSPORT

Monday, January 27, 9:00am-6:00pm, Bon Secour Bay I

Session Chairs:

Eric Chassignet, *Florida State University** Tamay Ozgokmen, *RSMAS* Clint Dawson, *University of Texas*

This session will highlight the importance of the physical processes that significantly impact chemical and biological transport in the Gulf of Mexico. The main goal of this inter-disciplinary session is to identify the physical processes (large and small scales) that need to be captured in predictive earth system numerical models for a successful depiction of oil pathways. Presentations will include in-situ observations (physical, biological, and chemical), earth system models, process studies, laboratory experiments, and cutting-edge numerical modeling. The group discussion will provide a forum for communication between physicists, chemists, and biologists.

Time	Title	Presenter	Student
9:00a-9:15a	Conference Introduction		
9:15a-9:30a	Session Introduction	Eric Chassignet, Florida State University	
9:30a-10:00a	Satellite-derived Ocean Color Climatology for the Gulf of Mexico: Comparative analysis to Bio-Optical-Physical ocean models	Sergio deRada, Naval Research Laboratory	No
10:00a-10:15a	Formation of Oil-Associated Marine Snow: An Effective Transportation and Distribution Pathway for Spilled Oil in Marine Environments	Uta Passow, Marine Science Institute, UCSB	No
10:15a-10:30a	Quantification of Oil-Layer Resistance to Entrainment in Water	Marieke Zeinstra-Helfrich, NHL University of Applied Sciences	Yes
10:30a-10:45a	Modeling Ocean Circulation and Biogeochemical Variability in the Gulf of Mexico	Ruoying He, North Carolina State University	No
10:45a-11:00a	Exchange pathways between coastal and open ocean waters in the Northern Gulf of Mexico	Robert Arnone, University of Southern Mississippi	No
11:00a-11:30a	Coffee Break		
11:30a-12:00p	Observations of Ocean Turbulence at the Submesoscales: Classic Similarity Theory in GLAD Surface Drifter Data.	Andrew Poje, CUNY - CSI	No
12:00p-12:15p	Tracer dispersion at mid-depth in the Gulf of Mexico: Field experiment and simulations	James Ledwell, Woods Hole Oceanographic Institution	No
12:15p-12:30p	Subsurface Oil Material Trapping and Release Fate Within a Stable, Laterally Mobile, Horizontal Layer: Model and Field Data for Soluble and Droplet Fractions	Louis Thibodeaux, Louisiana State University	No
12:30p-12:45p	Volume and mass transport on the continental slope near the Macondo spill site from a moored deepwater current meter array	Steven DiMarco, Texas A&M University	No
12:45p-1:00p	Effect of Langmuir Turbulence and Ekman Transport on Dilution of Oil Plumes in the Ocean Mixed Layer	Charles Meneveau, Johns Hopkins University	No
1:00p-2:30p	Lunch Break		
2:30p-2:45p	Near-surface flow and Stokes' drift in the northeastern Gulf of Mexico	Allan Clarke, Florida State University	No
2:45p-3:00p	Ocean dynamical effects on material deformation evolution, compacted filaments	Gregg Jacobs, Naval Research Lab	No
3:00p-3:15p	Lagrangian-based Estimates of the Statistical Properties of the Northern Gulf of Mexico Surface Velocity Field as Sampled by GLAD Drifters	Arthur Mariano, U of Miami/RSMAS	No
3:15p-3:30p	Quantifying Droplet Size Distribution Uncertainty in a Lagrangian Oil-Fate Model Forecast using Polynomial Chaos	Mohamed Iskandarani, University of Miami	No
3:30p-4:00p	Coffee Break		
4:00p-4:15p	Material Transport Induced by Tropical Cyclone Forcing over the DeSoto Canyon Region	Steven Morey, The Florida State University	No
4:15p-4:30p	Physical processes affecting transport in atmospheric boundary layer and upper ocean: From Hurricane Isaac to Hercules fire	Shuyi Chen, University of Miami	No
4:30p-6:00p	Facilitated Discussion	Gregg Jacobs, Naval Research Lab	

Session 004

INTEGRATED UNDERSTANDING OF THE IMPACTS OF THE DWH OIL SPILL ON FISHERIES: EXPOSURE VECTORS, BIOLOGICAL-PHYSIOLOGICAL EFFECTS AND ABUNDANCE OF FISHERIES POPULATIONS

Monday, January 27, 9:00am-6:00pm, Bon Secour Bay II

Session Chairs:

Steven Murawski, University of South Florida* William Patterson, University of South Alabama David Hollander, University of South Florida Felicia Coleman, Florida State University

The Gulf of Mexico supports a diverse community of fishes and invertebrates that in turn support valuable recreational and commercial fisheries. The Deepwater Horizon (DWH) oil spill interacted with fishes and invertebrates in the deep sea (e.g., deep demersal species), in the mesopelagic realm, in the surface pelagic region, on the continental shelf, and in nearshore areas including many bays and estuaries. A wide variety of studies have been initiated to examine the exposure of fishes and invertebrates to oil in these various geographic domains including contaminant analyses (especially for the presence of PAHs in various tissues and organs), and other components leading to sub-lethal effects. Moreover, studies are underway to determine the effects of contaminant composition (nature and concentration) on the mortality of various life stages, growth rates and recruitment effects. Impacts can extend from the species to the community and ecosystem levels of organization. The situation is complicated by the dearth of contaminant load baselines pre-DWH as well as multiple hydrocarbon sources in the Gulf of Mexico.

This session will examine the exposure vectors – active (food source) vs. passive (sediments, and waters, dissolved and particulates) uptake-, exposure scenarios (chemical composition and concentrations of contaminants), and impacts of the DWH spill on fish and fisheries of the Gulf of Mexico. It will incorporate information about where oil and oil products were distributed in the environment and how they degraded over time. Presentations will be integrative in nature and include multiple disciplines including toxicology, sediment dynamics, physical oceanography, population and community dynamics and fishery economics. The selection of papers will emphasize multidisciplinary, integrative studies, as well as a selection of papers within relevant disciplines that will foster information-sharing leading to a better mechanistic understanding of contamination/ mitigation scenarios and effects. The goal of this session is to review work accomplished to date by academic, private, state and federal researchers and to stimulate interdisciplinary synthesis of such information, thus leading to a deeper understanding of the mechanisms and effects of DWH contamination.

Time	Title	Presenter	Student
9:00a-9:15a	Conference Introduction		
9:15a-9:30a	Session Introduction	Felicia Coleman, Florida State University	
9:30a-10:00a	Understanding the Impacts of Deepwater Horizon and Other Oil Spills on the Gulf of Mexico Fisheries: An Overview	Steven Murawski, University of South Florida	No
10:00a-10:15a	Polycyclic aromatic hydrocarbons in fish: 2 years after the DWH oil spill	Isabel Romero, University of South Florida	No
10:15a-10:30a	Tracing Persistent Exposure Of Burrow-forming Fishes To Oil Contamination Following The Deepwater Horizon Blowout	Susan Snyder, University of South Florida	Yes
10:30a-10:45a	Looking For Evidence Of Oil Exposure In Fish Otoliths: Comparison With Genomic And Physiological Responses	Paola Lopez-Duarte, Rutgers University Marine Field Station	No
10:45a-11:00a	Mercury Stable Isotopes As Tracers Of Hg Cycling In The Water And Food webs Of The Northeastern Gulf Of Mexico	Vincent Perrot, National High Magnetic Field Laboratory, Florida State University	No
11:00a-11:30a	Coffee Break		
11:30a-11:45a	Acute toxicity of dispersed Macondo oil to young of the year Gulf menhaden and Florida pompano	Edward Chesney, LUMCON	No
11:45a-12:00p	Investigations Into Sublethal Effects Of Crude Oil On Coastal Marine Zooplankton And Their Susceptibility To Fish Predators	Brad Gemmell, University of Texas at Austin	No
12:00p-12:15p	Fish Assemblages In Louisiana Salt Marshes: Effects Of The Macondo Oil Spill	Kenneth Able, Rutgers University Marine Field Station	No
12:15p-12:30p	Acute and chronic effects of the Deepwater Horizon Oil Spill on reef fish community and trophic structure	William Patterson, University of South Alabama	No
12:30p-12:45p	Sedimentation Pulse in the NE Gulf of Mexico Following the 2010 DWH Blowout	Gregg Brooks, Eckerd College	No
12:45p-1:00p	Changes in sediment redox conditions following the BP DWH Blowout event	David Hastings, Eckerd College	No
1:00p-2:30p	Lunch Break		
2:30p-2:45p	Characterizing the Deep Sea Benthic Foraminifera Impact and Response to the Deepwater Horizon Event in the Northeastern Gulf of Mexico	Patrick Schwing, University of South Florida	No
2:45p-3:00p	N2-fixation in deep waters of the Northern Gulf of Mexico: Spills. Seeps, and links between the N and C cycles.	Joseph Montoya, Georgia Institute of Technology	No
3:00p-3:15p	An ecosystem-based modeling system for predicting oil spill impacts in the marine environment	JoLynn Carroll, Akvaplan-niva	No
3:15p-3:30p	Development of an Atlantis ecosystem model to study food web impacts of DWHOS	Cameron Ainsworth, University of South Florida	No
3:30p-4:00p	Coffee Break		<u> </u>
4:00p-6:00p	Facilitated Discussion	Steven Murawski, University of South Florida	

Session 006 SOCIO-ECON

SOCIO-ECONOMIC ANALYSIS OF ECOSYSTEM CHANGE: FROM BASELINES TO CATASTROPHIC EVENTS

Monday, January 27, 9:00am-6:00pm, Mobile Bay Ballroom

Session Chairs:

David Yoskowitz, Harte Research Institute* Rex Caffey, Louisiana State University

Oil spills, hurricanes, floods, and other man-created or natural disasters can have substantial effects on ecosystems and human well-being. Understanding the bio-physical/human well-being nexus is critical for the effective management of our natural resources, including protection and restoration, but also in the immediate response to these disasters. Currently a deficiency of socio-economic studies and comprehensive data collection efforts in the coastal and marine environment exists, yet there is growing recognition that a holistic approach (natural, social, and policy sciences) is required in ongoing baseline studies as well as event driven work. There is concern that because of the lack of relevant socio-economic data, significant opportunities for co-improvement in ecosystems and human well-being might be lost. This session will examine where we currently are, what we can expect the needs to be, and where the gaps exist with regards to socio-economic data and analysis.

Topics will include:

- The connection between ecological structure and function and human well-being and how it manifests itself through both market and non-market ecosystem services;
- The socio-economic data gaps that exist for effective ecosystem management;
- Changes in social-ecological resilience due to both acute disasters and gradual ecosystem change;
- New technologies and approaches for collecting socio-economic data;
- New analysis techniques to demonstrate ecosystem service values in monetary and non-monetary terms;
- · Integrated social and economic analysis of typically understudied economic sectors or communities; and
- The potential application of socio-economic analysis to ecosystem-based management.

Time	Title	Presenter	Student
9:00a-9:15a	Conference Introduction		
9:15a-9:30a	Session Introduction	David Yoskowitz, Harte Research Institute	
9:30a-9:45a	Factors Influencing the Design and Implementation of Environmental Human Health Studies	Maureen Lichtveld, Tulane University, School of Public Health and Tropical Medicine	No
9:45a-10:00a	Overlooking the Real Catastrophe: Why are Human Impacts Discounted in Oil Spill Research and Recovery Efforts?	Steve Picou, University of South Alabama	No
10:00a-10:15a	Moving Targets and Interconnected Webs: Studying Socioeconomic Effects of Ecosystem Change	Diane Austin, University of Arizona	No
10:15a-10:30a	Developing A Barometer Of Health And Balance: Measuring Community Well-Being For Coastal Counties In The Gulf Of Mexico	Maria Dillard, Hollings Marine Laboratory, JHT	No
10:30a-10:45a	Your Good Humor May Depend On Mother Nature- Identifying Relationships Between Coastal Environmental Health And Well-Being In The Gulf Of Mexico	Susan Lovelace, Hollings Marine Laboratory, JHT	No
10:45a-11:00a	Recovery and restoration of the Gulf of Mexico: An initial appraisal of concerns and values	John Carriger, US EPA	No
11:00a-11:30a	Coffee Break		
11:30a-11:45a	An Ecosystem Services Approach to Assessing the Impacts of the Deepwater Horizon Oil Spill in the Gulf of Mexico	Kim Waddell, National Academies	No
11:45a-12:00p	The Political Economy of Oil Spill Damage Assessment: The NRDA and Deepwater Horizon	Matthew Nichols, The Monterey Institute of International Studies	Yes
12:00p-12:15p	Ecosystem Valuation in Chesapeake Bay, Too Little Too Late? Lessons for the Gulf of Mexico	Douglas Lipton, NOAA Fisheries	No
12:15p-12:30p	Challenges to Social-Ecological Resilience in the Apalachicola Bay Oyster Industry	Brian Mayer, University of Arizona	No
12:30p-12:45p	Coastal resiliency and natural disasters: The case of the recreational for-hire fishing industry	Michelle Savolainen, Louisiana State University Agricultural Center, Center for Natural Resource Economics & Policy	Yes
12:45p-1:00p	Assessing the Impact of the Deep Water Horizon Oil Spill on Gulf Travel, Tourism, and Recreation: Quantitative and Qualitative Data Analysis	Lou Nadeau, Eastern Research Group, Inc.	No
1:00p-2:30p	Lunch Break		
2:30p-2:45p	Linking Deep Sea Ecosystems to Human Well-Being	Travis Washburn, Texas A&M University - Corpus Christi	Yes
2:45p-3:00p	Gulf of Mexico Research Priorities Identified from Broad Regional Input in 2007-2013	Stephen Sempier, Mississippi- Alabama Sea Grant Consortium	No
3:00p-3:15p	Longitudinal Marine Fisheries Economic Data Collection in the U.S. Gulf of Mexico: Rational and Future Opportunities	Alexander Miller, Gulf States Marine Fisheries Commission	No
3:15p-3:30p	Gulf of Mexico Ecosystem Services Valuation Database (GecoServ): a one- stop shop for Ecosystem Services Valuation Literature	Carlota Santos, Harte Research Institute	No
3:30p-4:00p	Coffee Break		
4:00p-6:00p	Facilitated Discussion	Ann Weaver, NOAA; Rex Caffey, Louisiana State University	

Session 007

COASTAL ECOSYSTEM COUPLINGS THREE YEARS AFTER THE DWH OIL SPILL

Monday, January 27, 9:00am-6:00pm, Bon Secour Bay III

Session Chairs:

R. Eugene Turner, *LSU** Nancy Rabalais, *LUMCON* Linda Hooper-Bui, *LSU* Brian Roberts, *LSU*

In order to fully understand the impacts of the Deepwater Horizon oil spill on coastal ecosystems it is important to examine responses over multiple timescales since the effects on some communities may be immediate while others take longer periods of time for the effects to cascade up food webs. An important additional consideration is that the time scales over which impacts persist may vary for different populations/communities of the impacted ecosystems as well as for the ecological and biogeochemical process rates that regulate these systems. This session invites contributions on how coastal marshes and nearshore water ecosystems have been affected, or not, following 3+ years of oil exposure following the Deepwater Horizon spill. Talks will cover a wide range of topics including oil distributions and degradation in the marshes and nearshore sediments, trajectories of oil transport, marsh erosion and stability, marsh vegetation, food web studies, and specific community responses (e.g., insects, infauna, birds, fish, etc.), commercial fisheries and ecological and biogeochemical process rates. It will also cover oil fate and transport: integrating field data and transport models, marsh food webs, including insects, birds; benthos, microbes, open water baseline and stressors: offshore systems, commercial fisheries: distribution of effort post-spill, biogeophysical, including microbial indicators, and research designs for the next spill.

Time	Title	Presenter	Student
9:00a-9:15a	Conference Introduction		
9:15a-9:30a	Session Introduction	R. Eugene Turner, Louisiana State University	
9:30a-9:45a	Weathering patterns of hopane, sterane and triaromatic steroid biomarkers in sediments from coastal marsh sites impacted by the Macondo Oil Spill	Ed Overton, Louisiana State University	No
9:45a-10:00a	Vulnerability of Deltaic Louisiana Estuaries to Pollution from an Offshore Oil Spill	Dubravko Justic, Louisiana State University	No
10:00a-10:15a	Distinct Responses of Gulf of Mexico Phytoplankton Communities to Crude Oil and the Dispersant Corexit® EC9500A Under Different Nutrient Regimes	Koray Ozhan, Louisiana State University	Yes
10:15a-10:30a	Differences in petroleum hydrocarbon compounds from Louisiana coastal marshes correspond to specific changes in microbial community composition	Annette Engel, University of Tennessee-Knoxville	No
10:30a-10:45a	Abundance and Community Composition of amonia-Oxidizing Microorganisms in Louisiana Salt Marshes Impacted by the Deepwater Horizon Oil Spill	Anne Bernhard, Connecticut College	No
10:45a-11:00a	The interaction between sediment bioturbators and sediment microbes on the distribution and degradation of oil in sediment	Paul Klerks, University of Louisiana at Lafayette	No
11:00a-11:30a	Coffee Break		
11:30a-11:45a	Biogeochemical responses of Louisiana salt marsh soils following the Deepwater Horizon oil spill	Brian Roberts, Louisiana Universities Marine Consortium (LUMCON)	No
11:45a-12:00p	Differential Biogeochemical Responses Of Spartina alterniflora And Avicennia germinans Soils Following The Deepwater Horizon Oil Spill	John Marton, Louisiana Universities Marine Consortium	No
12:00p-12:15p	Response Of Spartina alterniflora To Chemical And Herbivore Stressors	Rachael Blake, Louisiana State University	No
12:15p-12:30p	Effect Of Macondo Oil On Saltmarsh Terrestrial Arthropod Food Webs	Linda Hooper-Bui, Louisiana State University	No
12:30p-12:45p	Impacts of the Deepwater Horizon Oil Spill on Shorebird Communities in the Northern Gulf of Mexico	Jessica Henkel, Tulane University	Yes
12:45p-1:00p	Consequences of the Deepwater Horizon oil spill on breeding Seaside Sparrows	Christine Bergeon Burns, Louisiana State University AgCenter	No
1:00p-2:30p	Lunch Break		
2:30p-2:45p	Development of a chronic toxicity test to determine effects of fresh and weathered MC252 oil and dispersant on Eastern oyster larvae	Bill Stubblefield, Oregon State University	No
2:45p-3:00p	Short and long term effects of the Deepwater Horizon oil spill on the health and ecosystem services of oysters	Jerome La Peyre, Louisiana State University Agricultural Center	No
3:00p-3:15p	What Happened to the Offshore Rhodoliths and Other Seaweeds in the NW Gulf of Mexico Since the 2010 DWH oil spill?	Suzanne Fredericq, University of Louisiana at Lafayette	No
3:15p-3:30p	Salt Marsh Remediation and the Deepwater Horizon Oil Spill, the Role of Planting in Ecological Recovery	Scott Zengel, Atkins North America	No
3:30p-4:00p	Coffee Break		
4:00p-6:00p	Facilitated Discussion	Heidi Stiller, NOAA	

MONDAY POSTER SESSIONS

Monday, January 27 6:00pm-8:00pm Main Ballroom (Convention Center)

#	Title	Presenter	Student
SESSION	11		
1-1	Background oiling documented by SCAT surveys along Gulf Coast shorelines prior to and following MC252 oiling	Elliott Taylor, Polaris Applied Sciences, Inc.	No
1-2	Building a comprehensive sample repository to track the long-term impacts of the Macondo Well oil spill: an opportunity to engage citizen scientists	Catherine Carmichael, Woods Hole Oceanographic Institution	Yes
1-3	Combining Art and Science to Explain the Impact of Oil Spills and Cleanup to Middle School Students	Paul Russo, LSU	No
1-4	Occurrence of natural hydrocarbon seeps and deepwater coral communities in the Gulf of Mexico	James Sinclair, Bureau of Safety and Environmental Enforcement	No
1-404	Actions to Promote Coordinated, Science-based Gulf Ecosystem Restoration	Andrew Shepard, University of South Florida	No
SESSION	12		
2-5	Validating HYCOM Salinity Predictions in the Northern Gulf of Mexico Using Samos Data	Nicolas Lopez, Florida State University / COAPS	Yes
2-6	An adaptive, minimum-variance coordinate system for calculating a near- surface velocity climatology from ocean drifters	Lucas Laurindo, Rosenstiel School of Marine and Atmospheric Science, University of Miami	Yes
2-7	A Circa 2011 Bathymetric Dynamic Digital Elevation Model for the Northern Gulf of Mexico	Stephan O'Brien, The University of Southern Mississippi	Yes
SESSION	13		
3-8	Quantification of the uncertainty in the BP oil spill using a mesoscale coupled model : An ensemble based approach	Vikram Khade, Department of Oceanography, Texas A & M University	No
3-9	Effects of Surface Waves on Upper Ocean Transport during Hurricane Isaac (2012)	Milan Curcic, University of Miami	Yes
3-10	High Resolution Forensic Analysis Of Surface Sheens Helps Pinpoint Source Of Oil Leakage From The Deepwater Horizon	Robert Nelson, Woods Hole Oceanographic Institution	No
3-11	Objective surface velocity maps from GLAD drifter observations in the eastern Gulf of Mexico	Bruce Lipphardt, University of Delaware	No
3-12	Oil Biodegradation Cooled Down By Marine Snow !?	Shokouh Rahsepar, Wageningen University	Yes
3-13	Turbulent Diffusion of Droplets - Effect of Buoyancy	Evan Variano, UC Berkeley	No
3-14	Influence of high pressure and dispersants on hydrocarbon degrading bacteria	M. Schedler, Hamburg University of Technology	Yes
3-15	Lateral Mixing in the Northern Gulf of Mexico	Elizabeth Simons, Florida State University	Yes
3-16	Physical, chemical and toxicological characterization of micron size droplets created from MC-252 source oil	Piero Gardinali, Florida International University - Southeast Environmental Research Center (SERC)	No
3-17	Design of in situ measurements for validation of near field blowout models	Binbin Wang, Texas A&M University	No
3-18	Evaluation of Altimetry-Derived Surface Current Products Using Lagrangian Drifter Trajectories in the Eastern Gulf of Mexico	Yonggang Liu, University of South Florida	No

#	Title	Presenter	Student
3-19	Filtering GPS errors from GLAD drifter trajectories	Max Yaremchuk, NRL	No
3-20	The fate and transport properties of rising oil droplets & gas bubbles with hydrates from the deep ocean	In Ok JUN, Texas A&M University	Yes
3-21	Effect of diurnal warming on stratification and mixing in the Gulf of Mexico	Charlie Barron, Naval Research Laboratory	No
3-22	Quantifying Velocity Observation Representativeness Error Using Navy Coastal Ocean Model of Gulf of Mexico	Peter Spence, QinetiQ North America	No
3-23	Large eddy simulations of vertical transport processes in the marine boundary layer during the gas leak at Hercules	Ping zhu, Florida International University	No
3-24	Near-Inertial Surface Currents in the Northeastern Gulf of Mexico using HF Radar and GPS-Tracked Drifters	Matt Gough, RSMAS - Univ. of Miami	Yes
3-25	Signatures For Natural Oil Seeps In The Biogeochemistry Of The Deep Gulf Of Mexico	Andrew Margolin, Rosenstiel School of Marine and Atmospheric Science - University of Miami	Yes
3-26	Depth as a Factor in the Physiology and Ecology of Oil Droplets - Zooplankton Interactions	J Rudi Strickler, University of Wisconsin Milwaukee	No
3-27	Sub-lethal oil dispersant concentrations make algae produce marine snow	Justine van Eenennaam, Wageningen University	Yes
3-28	Dissolved Organic Carbon and Oxygen Concentrations Within Cold-water Coral Communities of the Northern Gulf of Mexico.	Caleb King, University of North Carolina at Chapel Hill	Yes
3-29	Quantifying the volume and frequency of bubble release from hydrocarbon seeps in the Gulf of Mexico: GC600	Caroline Johansen, Florida State University	Yes
3-30	Linkages with dissolved inorganic/organic carbon, pH, and oil and gas emissions in the Gulf of Mexico	Jordan Young, Texas A & M	Yes
3-31	Gag Grouper Larvae Pathways on the West Florida Shelf	Robert Weisberg, University of South Florida	No
3-32	A Northeast Gulf of Mexico Coastal Ocean Model: FVCOM Nested in GOM HYCOM, with Application to 2010	Lianyuan Zheng, University of South Florida	No
3-33	GCMS Analysis of Products of Pyrolysis of BP Oil Spill Residue	Andrew Wood, Jacksonville State University	Yes
3-34	Long Range Stochastic Plume Simulations in the Gulf of Mexico	Emanuel Coelho, University New Orleans	No
3-35	The Role of Turbulence in the Mixing and Diffusion of Oil in the Gulf of Mexico	Zhankun Wang, Texas A&M University	No
3-36	Single Droplet Interactions with Alcanovorax borkumensis Bacteria and Carbon Black	Maswazi Sihlabela, Brown University	Yes
3-37	Viscoelastic Transition of Bacteria Films at Oil-Water Interfaces	Liana Vaccari, University of Pennsylvania	Yes
3-38	A K-profile parameterization of Langmuir turbulence in shallow water	Andres Tejada-Martinez, University of South Florida	No
3-39	Modeling ocean circulation and biogeochemical variability in the Gulf of Mexico	Ruoying He, North Carolina State University	No
3-40	Uncertainty Analysis Of Bubble Plumes In A Stratified Environment	Tamay Ozgokmen, University of Miami	No
3-41	Deep Water Horizon Oil in Gulf of Mexico Waters after TwoYears: Transformation into the Dissolved Organic Matter Pool	Thomas Bianchi, University of Florida	No

#	Title	Presenter	Student
3-42	Hydrostatic Modeling of the Near-Field and Far-Field Multi-phase Plume in a Deepwater Blowout.	Ashley Stroman, Florida State University	Yes
3-43	The Influence of Grid Resolution and Wind Specification on the Prediction of Transport of Oil at the Surface	Ian Mitchell, University of Maryland Center for Environmental Science	No
3-44	Effects of chemically patterned surfaces on bacterial movement and growth	Maryam Jalali, Texas Tech University	No
3-45	Integrating Models and Observations to Estimate Subsurface Degradation Rates and Oil Transport	Elizabeth North, University of Maryland Center for Environmental Science	No
3-46	The effect of natural solar radiation on crude oil degradation and microbial community structure	Hernando Bacosa, Marine Science Institute, The University of Texas at Austin	No
3-47	The stratigraphic absolute abundances and compositional characteristics of calcareous nannofossils in the De Soto Canyon pre- and post-Macondo oil spill sediments.	Aisha Agbali, Florida State University	Yes
3-48	Variation in efficiency and effectiveness Corexit dispersants in salt water with increasing hydrostatic pressure	Berrin Tansel, Florida International University	No
3-49	Water Column Inertial and Sub-Inertial Oceanic Response to Hurricane Isaac in the Deepwater Gulf of Mexico	Laura Spencer, Texas A&M University	Yes
3-50	Analysis Of Deep Currents In The Gulf Of Mexico From The 1/25-degree HYCOM	Dmitry Dukhovskoy, FSU	No
3-51	Polarimetric Sea-Surface Measurements During The GLAD Experiment	Nathan Laxague, University of Miami	Yes
3-52	Wetland Surface Water Motion Due To Waving Vegetation	Evan Variano, UC Berkeley	Yes
3-53	Settling Velocity Of Marine Snow At A Seep Site And A Spill Site In The Northern Gulf Of Mexico	Clayton Dike, The University of Southern Mississippi	Yes
3-54	Hydrocarbon Processing At A Natural Seep In The Gulf Of Mexico	Christof Meile, University of Georgia	No
3-55	Marine Snow Aggregate Abundance Near The Macondo Well Site	Vernon Asper, University of Southern Missippi	No
3-56	Experimental investigation of generation of oil-seawater aerosol by breaking waves	Cheng Li, Johns Hopkins University	Yes
3-57	Long Internal Waves in the Northern Gulf of Mexico: Unraveling Coastal Transport Mechanisms	Kimberly Arnott, Texas A&M University-Corpus Christi	No
3-58	Validation of Preconditioning and Level-Set Methods for Multi-Phase Flow Simulations	Ge-Cheng Zha, University of Miami	Yes
3-59	Methane sources and distributions in the water column of the northern Gulf of Mexico after the Deep Water Horizon oil spill	Cédric Magen, Florida State University	No
3-60	Fragmentation, dispersion and clustering of oil drops in water	Andrea Prosperetti, Johns Hopkins University	No
3-61	Multiple lines of evidence for elevated phytoplankton pigments near natural oil seeps in the Northern Gulf of Mexico	Nigel D'souza, Lamont-Doherty Earth Observatory, Columbia University	No
3-62	Hydrocarbon degrading bacteria near oil water interface	Mehdi Molaei, Texas Tech University	Yes
3-63	Tracer age as a diagnostic for understanding the relationship between surface and boundary forcing and estuarine circulation	Matthew Rayson, Stanford University	No
3-64	Sediment Resuspension In The Deep Gulf Of Mexico Affects Redistribution And Transformation Of (Oil-Rich) POM	Kai Ziervogel, University of North Carolina- Chapel Hill	No
3-65	Analysis of moored observations to understand the physics of the connectivity between the deep sea and the coast through the DeSoto Canyon	Allan Clarke, Florida State University	No
3-66	Initial Descriptions of Macrofaunal Community Structure of the DeSoto Canyon Following the Deepwater Horizon Oil Spill.	Amy Baco-Taylor, Florida State University	No

#	Title	Presenter	Student
3-67	Velocities and Lagrangian transport estimates from GLAD data clustering at various scales via the Lagrangian assimilation algorithm LAVA.	Guillaume Novelli, UM	No
3-68	Presence of Specific Calcareous Nannoplankton Assemblages Along the NE Florida Continental Margin: A Look at Loop Current Eddy Shedding.	Jarrett Cruz, Florida State University	Yes
3-69	The SailBuoy Experiment	Nico Wienders, Florida State University	No
3-70	A submesoscale eddy field along the Mississippi/Atchafalaya River plume front	Robert Hetland, Texas A&M	No
3-71	Modeling of Multi-Phase Environments at the Air-Sea Interface in the Presence of Oil and Dispersants	Alexander Soloviev, Nova Southeastern University Oceanographic Center	No
3-72	Geomorphological and sedimentary characterization of the erosional channels system in Desoto Canyon, Gulf of Mexico, using sub-bottom profiler and multi-beam data.	Mauricio Silva, Florida State University	Yes
3-73	Optimal Displacement Correction In Ocean State Variables That Preserves Feature Information	William Rosenthal, University of Arizona	Yes
3-74	Interaction Between Geomorphology, Sedimentary Processes, And Circulation - Northeastern Gulf Of Mexico	Stan Locker, University of South Florida	No
3-75	Experiments In The Near-Surface Ocean Layer	Guillaume Novelli, University of Miami	No
3-76	Phytoplankton associations in the northeastern Gulf of Mexico: Changes in the association with depth	James Nienow, Valdosta State University	No
3-77	Satellite Imagery Derived Near-Surface Flow in the Northern Gulf of Mexico	Haoping Yang, University of Southern Mississippi	No
3-78	High resolution flux measurements of methane and carbon dioxide reveal the influence of the depth of release on emission rates to the atmosphere	Mengran Du, Texas A&M University	Yes
3-79	Deep Sea Hydrocarbon Seep Surveys using AUVs	Arne Diercks, University of Southern Mississippi	No
3-80	The interaction of <i>Alcanivorax Borkumensis</i> with carbon black stabilized emulsions	Michelle Bookstaver, Brown University	Yes
3-81	A new technique to derive dissipation of temperature variance from infrared images at the ocean surface	Fabio Augusto, Texas A&M - Corpus Christi	Yes
3-82	Real-Time Coupled Ocean-Atmosphere-Wave Simulations in the Gulf of Mexico	Patrick Hogan, Naval Research Laboratory	No
3-83	Effects of dispersant application on oil contamination of sub tidal sediments: A meta-analysis.	Sophie Vonk, University of Wageningen	Yes
3-84	Numerical Investigation of Ambient Flow Effect on Oil/Gas Spill in Deep Water	Youhei Takagi, Osaka University	No
3-85	Online monitoring of mineral oil biodegradation at high pressure	Ana Gabriela Valladares, Hamburg University of Technology	No
3-86	Inertial particle dynamics in the ocean	Maria Olascoaga, RSMAS-U.Miami	No
3-87	Sorption/desorption of polycyclic aromatic hydrocarbons with Gulf Coast marine sediments: Effects of oil dispersant, oil, temperature and pressure	Xiao Zhao, Auburn University	Yes
3-88	Subsurface Turbulence Measurements During GLAD Experiment	Darek Bogucki, Texas A&M University-Corpus Christi	No
3-89	Impact of Submesoscale Flows on Particle Distributions in a Gulf of Mexico Star Eddy.	Angelique Haza, RSMAS / University of Miami	No
3-90	Texas-Louisiana shelf connectivity and time variability using particle tracking	Kristen Thyng, Texas A&M University	No

#	Title	Presenter	Student
3-91	Interactions between dispersants, dispersed oil and suspended sediment particles and their effects on particle settling and contaminant transport	Zhengqing Cai, Auburn University	Yes
3-92	The Influence of Sulfate Availability and Gas Concentration on the Oxidation of Short Chain Alkanes	Ryran Sibert, University of Georgia	Yes
3-93	Deepwater variability as seen by the GISR mooring array	Joe Kuehl, Geochemical and Environmental Research Group, Texas A&M University	No
3-94	A new experimental module for the investigation of deep-sea oil spills under in-situ conditions	Karen Malone, Hamburg University of Technology	Yes
3-95	Estimating uncertainties of Lagrangian trajectory and Lagrangian Coherent Structure using ensemble in the GOM	Mozheng Wei, Naval Research Laboratory	No
3-96	Oil Spill Forecast in the Gulf of Mexico Using a High Resolution Coupled Ocean-Atmosphere Model	Raffaele Montuoro, Texas A&M University	No
SESSIO	N 4		
4-97	Declines in Small Demersal Reef Fishes: Confounding Effects of the Deepwater Horizon Oil Spill and Invasive Lionfish	Kristen Dahl, University of South Alabama	Yes
4-98	Implementation of new spatial forcing functions in the Atlantis modeling framework to accurately represent oil spill impacts in the Gulf of Mexico	Lindsey Dornberger, University of South Florida	Yes
4-99	Ichthyoplankton Populations Exposure to Oil Resulting from an Oil Well Blowout	Emily Chancellor, University of South Florida	Yes
4-100	Hercules 265 rapid response: hydrographic, methane, and rate measurements quantify ecosystem impacts of a rig blowout incident.	Sarah Weber, Georgia Institute of Technology	Yes
4-101	Large-scale tracking of oil-derived hydrocarbons in deep-sediments of the Gulf of Mexico after the Deepwater Horizon oil spill	Isabel Romero, University of South Florida	No
4-102	Effects of the Deepwater Horizon Oil Spill on Abundances and Distributions of Larval Fishes in the Northern Gulf of Mexico	Jesse Filbrun, The University of Southern Mississippi	No
4-103	Dispersed MC252 crude oil impacts behavior and development of queen conch and pink shrimp larvae at sublethal levels	Amber Garr, EA Engineering, Science, and Technology, Inc.	No
4-104	Petrogenic polycyclic aromatic hydrocarbons (PAHs) analysis of marine species after the Deep Water Horizon Oil Spill	Harshica Fernando, University of Texas Medical Branch at Galveston	No
4-105	Hydrocarbons in shrimp and fishes of the Southwestern Gulf of Mexico	Adolfo Gracia, Instituto de Ciencias del Mar y Limnología	No
4-106	Temporal Changes in the Microbiological Ecosystem in Near-shore and Soil Samples Affected by the 2010 Gulf Oil Spill	William Widger, University of Houston	No
4-107	Species and Tissue Specific Turnover and Oil Depuration Rates of Fishes in the Gulf of Mexico	Jenny Fenton, University of South Florida	Yes
4-108	Detecting trace element anomalies in offshore fish otoliths coincident with the Deepwater Horizon oil spill	Jennifer Granneman, University of South Florida College of Marine Science	Yes
4-109	Investigation Of Methylmercury Bioaccumulation And Detoxification In Gag Grouper (Myctoperca microlepis) From The Northeastern Gulf Of Mexico Using Hg Stable Isotopes	Vincent Perrot, National High Magnetic Field Laboratory, FSU	No
4-110	Assimilation of oil-derived elements by oysters due to the deepwater horizon oil spill	Ruth Carmichael, Dauphin Island Sea Lab	No
4-111	Potential effects of the Deepwater Horizon oil spill on blue crab (<i>Callinectes sapidus</i>) population connectivity	Joanna Gyory, Tulane University	No

#	Title	Presenter	Student
4-112	Detection of oil-spill and wastewater contaminants in blue crab (Callinectes sapidus) megalopae in the northern Gulf of Mexico	Susan Chiasson, Tulane University	Yes
4-113	Polycyclic aromatic hydrocarbons in continental-shelf sediments two years after the Deepwater Horizon Blowout	Haley Ramirez, Eckerd College	Yes
4-114	Effects of the Deepwater Horizon Oil Spill on Diets, Growth, and Condition of Larval Spanish Mackerel (Scombermorus maculatus) in the Northern Gulf of Mexico	John Ransom, The University of Southern Mississippi	Yes
4-115	Combined Effects of Low Dissolved Oxygen and Oil Contaminants in the Gulf Killifish Fundulus grandis	Christopher Klinkhamer, Purdue University	Yes
4-116	Spatiotemporal Variation of Exposure of Southern and Gulf Flounder to Crude Oil following the Deepwater Horizon Oil Spill using Otoliths and LA-ICPMS	Philippa Kohn, University of Florida	Yes
4-117	Did Deepwater Horizon Hydrocarbons Transit to the West Florida Continental Shelf?	Robert Weisberg, University of South Florida	No
4-118	Changes in Commercial Fishing Behavior as Associated with the Deepwater Horizon Blowout	Marcy Cockrell, University of South Florida	Yes
4-119	Using otolith microchemistry of Gulf killifish (Fundulus grandis) to differentiate estuaries and identify chemical signatures indicative of oil exposure	Thomas Nelson, Auburn	Yes
4-120	Determining the effects of the Deepwater Horizon Oil Spill on the Benthic Foraminifera community in the Northeastern Gulf of Mexico	Emily Hladky, Eckerd College	Yes
4-121	Impacts of the Deepwater Horizon Oil Spill on trophic ecology and population dynamics of tomtate, Haemulon aurolineatum, in the northern Gulf of Mexico	Michael Norberg, University of South Alabama - Dauphin Island Sea Lab	Yes
4-122	Microbial community succession and hydrocarbon biodegradation in surface and seafloor pressure incubations	Sara Lincoln, The Pennsylvania State University	No
4-123	The Deepwater Horizon Oil Spill and Mercury Concentrations in Northwest Florida Reef Fishes	Alexandra Harper, Florida State University	Yes
4-124	Comparative responses of the bay anchovy (Anchoa mitchilli) and blue crab (Callinectes sapidus) to oil, dispersed oil and Corexit	Tara Duffy, LUMCON	No
4-125	Investigating the presence of oil in deep sediments and the water column in the Gulf of Mexico using carbon isotopes	Joanna Kolasinski, Tulane University	No
4-126	Comparison of otolith-based growth rates and microchemistry in inshore fish before, during, and after the Deepwater Horizon oil spill	Brock Houston, University of South Florida	Yes
4-127	Polycyclic Aromatic Hydrocarbon Biomarkers in Gulf of Mexico Fishes in the years following the Deepwater Horizon Oil Spill	Arianne Leary, University of North Florida Biology Department	Yes
4-128	Changes in fish sound production in the Gulf of Mexico following the Deepwater Horizon oil spill	Ana Širović, University of California San Diego	No
4-129	Who's Oil is it Anyway? Evaluating <i>Deepwater Horizon</i> in Relation to Multiple Hydrocarbon Sources Affecting Gulf of Mexico Fishes	Steven Murawski, University of South Florida	No
4-130	Utilizing 234Th as a geochronometer in sediment cores following the 2010 DWH blowout.	Rebekka Larson, Eckerd College/USF	Yes
4-131	The first transcriptomes of the blue crab, Callinectes sapidus and the lesser blue crab, C. similis: new tools for basic and applied research	Joseph Neigel, University of Louisiana at Lafayette	No
4-132	Direct Sub-Lethal Effects of Corexit® 9500 and Oil on the Eastern oyster (Crassostrea virginica)	Lindsay Jasperse, University of Connecticut	Yes

#	Title	Presenter	Student
4-133	Deepwater Horizon Oil Spill effects on Lopholatilus chamaeleonticeps	Monica Collazos, University of North Florida	Yes
4-134	Population biology of the blackfin gulper shark, Centrophorus isodon, in the Northern Gulf of Mexico	Jacquelin Hipes, University of South Florida	Yes
4-135	Cloning and expression analysis of IL-1 β , IL-8, IL-10, and TNF α in red snapper and golden tilefish in relation to PAH exposure	Kristina Deak, Mote Marine Laboratory	Yes
4-136	A more efficient route to Atlantis: new tools for developing and comparing Atlantis models applied to new models for the eastern Gulf of Mexico	J. Stephen Gosnell, Coastal and Marine Laboratory	No
4-137	The effects of sample processing methods on light stable isotope and mercury analyses of fish muscle	Johanna Imhoff, Florida State University	Yes
4-138	Splenic Macrophage Aggregates As Potential Biomarker of Exposure in Red Snapper Sampled From The Northern Gulf of Mexico Post-DWH Oil Spill	Andrew Kane, University of Florida, Aquatic Pathobiology Laboratories	No
4-139	Correlational changes in benthic foraminifera abundance and sedimentary redox conditions after the Deepwater Horizon Blowout event	Corday Selden, Eckerd College	Yes
4-140	The Effects of Ontogeny, Habitat, and DWH Oil Spill on Red Snapper, Lutjanus campechanus, Diet and Trophic Ecology in the Northern Gulf of Mexico	Joseph Tarnecki, Dauphin Island Sea Lab	Yes
4-141	Detection of Oil Spill Microbe and Colonization of Shrimp Species of the Gulf of Mexico	Illya Tietzel, Southern University at New Orleans	No
4-142	Towards the quantitative visualization of dynamic interactions between bacterial biofilms and solitary oil-droplets	George Kapellos, Texas Tech University	No
4-143	Post-DWH sedimentation: Insights from archaeal tetraether lipids	Sara Lincoln, The Pennsylvania State University	No
4-144	Modeling population connectivity, larval drift, and cumulative contaminate exposure mortality in the Gulf of Mexico	Michael Drexler, University of South Florida	Yes
4-145	Did the Growth Rates of Gulf of Mexico Red Snapper, Lutjanus campechanus, Change Following the 2010 Deepwater Horizon Blowout?	Elizabeth Herdter, University of South Florida	Yes
4-146	Exploring Factors that Impact the Activity of a Polycyclic Aromatic Hydrocarbon Exposure Biomarker, EROD, in Livers of Finfish from the Gulf of Mexico	Marci Smeltz, University of Florida	Yes
4-147	Isotopic indicators of oil and gas impacts on plankton: Natural abundance of carbon and nitrogen isotopes in particles in the Northern Gulf of Mexico after the Deepwater Horizon spill	Katherine Smith, Georgia Tech	Yes
4-148	Zooplankton and larval crab distribution in the Gulf of Mexico	Sarah Giltz, Tulane University	Yes
4-149	Neustonic early life stages of fishes in the northern Gulf of Mexico during the Deepwater Horizon oil spill	Frank Hernandez, University of Southern Mississippi	No
4-150	Mississippi coastal fish assemblage structure and dynamics before and after the Deepwater Horizon oil-spill	Jacob Schaefer, University of Southern Mississippi	No
4-151	Native Species in Ecotoxicological Assessments: Using Non-Standard Organisms to Assess Ecological Impairment Following the Deepwater Horizon Oil Incident	Brandi Echols, Florida International University	No
4-405	The NOAA NRDA Gulf of Mexico Offshore Fish and Nekton Program: Rationale, Design and Sampling/Sensing Synopsis	Tracey Sutton, NOVA Southeastern University	No
SESSIO	N 6		
6-235	Socioeconomic Studies in Coastal Communities along the U.S. Gulf of Mexico: The Offshore Petroleum Industry as a Significant Driver of Effects	Diane Austin, University of Arizona	No

#	Title	Presenter	Student
6-236	Economic resilience of the GoM business supply chain towards multiple disasters occurring over time	Negar Dahitaleghani, LSU	Yes
SESSIO	N 7		
7-237	Metagenomic analysis of a microbial consortium associated with natural crude oil from the Santa Barbara Channel: Extending our knowledgebase of Hydrocarbon Microbiology beyond the Gulf of Mexico	Matthias Hess, Washington State University	No
7-238	Did the coastal phytoplankton community change in response to the Macondo oil spill?	Michael Parsons, Florida Gulf Coast University	No
7-239	Benthic Foraminifera Diversity and Distribution in the Gulf of Mexico	Chelsea McCurry, Center for Environmental Diagnostics and Bioremediation	Yes
7-240	Stable isotopes as chemical indicators of Spartina alterniflora productivity in a multiple stressor mesocosm experiment	Jill Olin, Louisiana State University	No
7-241	The Effects of Large Nitrogen Loading and Low Oxygen Conditions on Nitrogen Removal Processes in Coastal Waters	Mary Rogener, University of Georgia	Yes
7-242	Taxonomic, metabolic, and physiological properties of bacteria from Gulf of Mexico deep-sea sediments impacted by the Deepwater Horizon oil spill	Bryan Davis, University of West Florida	Yes
7-243	Post-Deepwater Horizon oil spill Abundance and Diversity of Marsh Nekton in the Mississippi River delta	Thomas Sevick, Loyola New Orleans	Yes
7-244	Spatial and temporal variations in the community structure of marine Archaea in the Northeastern Gulf of Mexico	Sarah Tominack, University of West Florida	Yes
7-245	Louisiana salt marsh soil greenhouse gas fluxes following the Deepwater Horizon oil spill	Brian Roberts, Louisiana Universities Marine Consortium (LUMCON)	No
7-246	The Effects of the Deepwater Horizon Oil Spill on Blue Crab Megalopal Settlement: A Field Study	Elizabeth Robinson, Louisiana State University- Baton Rouge	Yes
7-247	Determining the sources and availability of food for the Seaside Sparrow in oiled and reference Louisiana Salt Marshes	Wokil Bam, Department of Oceanography and Coastal Sciences, Louisiana State University	Yes
7-248	Understanding Atmospheric Hg Deposition Above A Coastal Area Of The Gulf Of Mexico (Pensacola, FL) Using Hg Stable Isotopes	Vincent Perrot, National High Magnetic Field Laboratory, Florida State University	No
7-249	Impact Of The Deepwater Horizon Oil Spill And Dispersant Application On Marine Bacterial Populations	Suja Rajan, University of Alabama	Yes
7-250	Effect of Hurricane Isaac and Macondo Oil on Saltmarsh Terrestrial Arthropods	Gerald Soderstrum, Louisiana State University	Yes
7-251	Effect Of Macondo Oil On Fiddler Crab Burrows In Barataria Bay, Louisiana	Linda Hooper-Bui, Louisiana State University	No
7-252	DNA analysis of surfactant and oil associated bacteria in the sea surface microlayer	Bryan Hamilton, Nova Southeastern University	Yes
7-253	Oil, Nutrients, And Predation Synergistically Control Planktonic Oxygen Consumption In The Gulf Of Mexico.	Andrew Juhl, Lamont Doherty Earth Observatory	No
7-254	Rhodoliths offshore the NW Gulf of Mexico: before and after, inside and out	Thomas Sauvage, University of Louisiana at Lafayette	Yes
7-255	Ciliate Microbial Diversity in the Gulf of Mexico	Joseph Moss, Center for Environmental Diagnostics and Bioremediation	No
7-256	Combined Effect of Solar Radiation and Crude Oil on Microbial Community Structure in the NE Gulf of Mexico	Josette Hutcheson, University of West Florida	Yes
7-257	Oscillations In Rhizosphere Microbiomes: Examining The Effects Of Crude Oil On Microbial Community Structure Over Time And Space	Demetra Kandalepas, Tulane University	No

#	Title	Presenter	Student
7-258	Phytoplankton associations in the northeastern Gulf of Mexico: Changes in the net plankton association, 2011 - 2013	Courtney Bryller, Valdosta State University	Yes
7-259	Pensacola Beach Surf Zone Microbial Communities Before, During, and After Oil Contamination	Christian Riesenfeld, University of West Florida	No
7-260	High Site Fidelity of the Gulf Killifish (Fundulus grandis) in Northern Gulf of Mexico Marshes: An Empirical and Modeling Approach to Help Address Oil Effects	Charles Martin, Louisiana State University	No
7-261	Fungal Response to the Deep Water Horizon Oil Spill: What can fungi tell us about our environment?	Demetra Kandalepas, Tulane University	No
7-262	Changes in nitrogen cycling in Louisiana salt marsh soils following the Deepwater Horizon oil spill	Anne Giblin, Marine Biological Laboratory	No
7-263	Deepwater Horizon Oil Spill and Gulf of Mexico Shelf Hypoxia	Nancy Rabalais, Louisiana Universities Marine Consortium	No
7-264	Increased marsh deterioration associated with changes in microbial diversity following the 2010 Deepwater Horizon oil spill	Chanda Drennen, University of Tennessee	Yes
7-265	Trajectory of changing DWH oil in Louisiana marshes, 2010-2013	R. Eugene Turner, Louisiana State University	No
7-266	Effects Of Oil Pollution On Ant Community In Coastal Dunes Of Louisiana	Xuan Chen, Louisiana State University	Yes
7-267	Summer phytoplankton communities in Kwangyang Bay and around Taeanhaean Marine National Park near the Hebei Spirit oil spill site of Korea	Wonho Yih, Kunsan National University	No
7-268	Bacterioplankton community structure after exposure to oil and dispersants using 16S rRNA and alkB genes in the northeastern Gulf of Mexico	Katelyn Houghton, University of West Florida	Yes
7-269	Stable Isotope Composition of Remineralizing Organic Carbon In The Northern Gulf of Mexico Continental Shelf Sediments	Hongjie Wang, Texas A&M University-Corpus Christi	Yes
7-270	Recovery of Ecological Structure and Function of Coastal Marshes Impacted by the <i>Deepwater Horizon</i> Oil Spill in Northern Barataria Bay	Qianxin Lin, Louisiana State University	No
7-271	Examining the spatial and temporal variation of intertidal meiofaunal communities using a metagenomic approach	Pamela Brannock, Auburn Univeristy	No
7-272	Louisiana commercial fishing industry response to the Deepwater Horizon oil spill	Giovanna McClenachan, Louisiana State University	Yes
7-273	Bacterial abundances in the water column near natural oil seeps and other oil-impacted areas in the Northern Gulf of Mexico	Kendra Bullock, Lamont-Doherty Earth Observatory, Columbia University	Yes
7-274	Diazotrophs in the northern Gulf of Mexico: distribution and hydrocarbon/ dispersant effects on nitrogen-fixation in Trichodesmium and diatom symbioses	Tracy Villareal, Univ. of Texas at Austin	No
7-275	Effects of Dispersant on Benzene Biodegradation in Salt Marsh Sediment	Miluska Olivera-Irazabal, Troy University	Yes
7-276	Relative rates and stoichiometry ratios of organic matter respiration in bottom water of the northern Gulf of Mexico during summertime	Xinping Hu, Texas A&M University - Corpus Christi	No
7-277	Nitrate Addition Has Minimal Effect on Anaerobic Biodegradation of Benzene in Coastal Saline (salt), Brackish and Freshwater Marsh Sediments	Rui Tao, Troy University	No



TUESDAY JANUARY 28

8:00a-6:00p	Registration & Check-in Open	Foyer
8:00a-6:00p	Exhibits Open	Foyer
7:00a-6:00p	Speaker Ready Room Open (Presentation Upload)	Riverboat Room
8:00a-8:00p	Poster Hall Open	Main Ballroom (Convention Center)

Scientific Program Schedule

7:30a	Breakfast	Foyer
9:15a-11:00a	Session 005	Bon Secour Bay I
9:15a-11:00a	Session 008	Bon Secour Bay II
9:15a-11:00a	Session 009	Mobile Bay Ballroom
9:15a-11:00a	Session 010	Bon Secour Bay III
11:00a-11:30a	Break	Foyer
11:30a-1:00p	Session 005	Bon Secour Bay I
11:30a-1:00p	Session 008	Bon Secour Bay II
11:30a-1:00p	Session 009	Mobile Bay Ballroom
11:30a-1:00p	Session 010	Bon Secour Bay III
1:00p-2:30p	Lunch	Moonlight Ballroom (Battle House Hotel)
2:30p-3:30p	Session 005	Bon Secour Bay I
2:30p-3:30p	Session 008	Bon Secour Bay II
2:30p-3:30p	Session 009	Mobile Bay Ballroom
2:30p-3:30p	Session 010	Bon Secour Bay III
3:30p-4:00p	Break	Foyer
4:00p-6:00p	Session 005	Bon Secour Bay I
4:00p-6:00p	Session 008	Bon Secour Bay II
4:00p-6:00p	Session 009	Mobile Bay Ballroom
4:00p-6:00p	Session 010	Bon Secour Bay III
6:00p-8:00p	Poster Session & Reception (featuring Sessions 005, 008, 009, 010)	Main Ballroom (Convention Center)

Associated Meetings and Events

4:00p-6:00p	C-MEDS/Metcalf Oil Spill Science Seminar for Journalists	Schooner
6:00p-8:00p	Gulf Restoration Science Programs Town Hall	Mobile Bay Ballroom

Session 005

FATE AND TRANSPORT OF OIL SPILL RESIDUES AND THEIR IMPACTS ON NEARSHORE COASTAL ENVIRONMENTS

Tuesday, January 28, 9:15am-6:00pm, Bon Secour Bay I

Session Chairs:

Prabhakar Clement, *Auburn University** John Valentine, *Dauphin Island Sea Lab* Michel Boufadel, *The New Jersey Institute of Technology* Chris Reddy, *Woods Hole Oceanographic Institution*

Deepwater Horizon oil spill has deposited large amounts of residual emulsified oil in the form of tar balls and tar mats into beach and wetland environments located along the Gulf Coast region. The persistence of some toxic chemicals (such as PAHs and alkylated PAHs) in these residues could cause negative effects on the ecology of these shoreline environments; furthermore, the physical presence of tar balls and tar mats could also adversely impact the local economy. The objective of this session is to invite research presentations that can help improve our understanding of the fate and transport of oil spill residues in nearshore coastal environments and help quantify their impacts on local ecosystems.

Topics will include:

- Mechanistic models and laboratory studies that can help understand the fate of floating oil affected by various physical transport processes including evaporation, dissolution, photo-oxidation, mixing and emulsification in the open ocean environment;
- Processes that lead to the deposition of emulsified oil in near shore environments;
- · Novel analytical methods used for characterizing oil spill wastes;
- Methods for quantifying the biochemical fate and decay processes in beaches and nearshore water bodies including wetlands;
- · Methods for quantifying beach and wetland recovery processes;
- Technologies for identifying and removing sunken oil (e.g., tar mats) from beaches and wetlands;
- Impacts of the presence of oil spill residues on the economy of coastal communities;
- · Characterizing human and environmental toxicity of oil spill residues; and
- Hydrodynamic and sediment transport models that can predict the long term fate and transport of oil spill residues deposited in beaches and wetlands.

Time	Title	Presenter	Student
9:15a-9:30a	Session Introduction	Prabhakar Clement, Auburn University	
9:30a-10:00a	Distribution, Fate, Behavior and Removal of Stranded Oil during the Response to the Deepwater Horizon Oil Spill	Jacqueline Michel, Research Planning, Inc.	No
10:00a-10:15a	The State of Alabamas Beaches Post-Deepwater Horizon	Joel Hayworth, Auburn University	No
10:15a-10:30a	Light Component Vaporization and Heavy Residue Sinking from a Surface Oil Slick: Binary Mixture Theory and Experimental Proof-of-Concept	Louis Thibodeaux, Lousiana State University	No
10:30a-10:45a	Distribution And Weathering of MC252 On Louisiana Coastal Headland Beaches: Why Are These Ecosystems the Last in Active Response?	John Pardue, Louisiana State University	No
10:45a-11:00a	Did the Mitigation Strategies of Deepwater Horizon Surfacing Oil Intensify Processes Associated with Oil-Flcoculation and Increase the "Footprint" of Sedimentary Oil Deposition?	David Hollander, University of South Florida	No
11:00a-11:30a	Coffee Break		
11:30a-11:45a	Monitoring and Remediation of PAHs in the Coastal Environment	Upal Ghosh, University of Maryland Baltimore County	No
11:45a-12:00p	Hydrocarbon-degrading microbial communities and the fate of oil in beach sands impacted by the Deepwater Horizon oil spill.	Joel Kostka, Georgia Institute of Technology	No
12:00p-12:15p	The Degradation of Hydrocarbons in Sandy Sediment of the Northeastern Gulf	Markus Huettel, Florida State University	No
12:15p-12:30p	Microbial Population Dynamics And Oil Biodegradation In Louisiana Coastal Marsh Sediments Following The Deepwater Horizon Oil Release	Ronald Atlas, University of Louisville	No
12:30p-12:45p	Identification Of Microbial And Abiotic Degradation Of Macondo Well Oil At The Sea Surface And On Beaches	Christoph Aeppli, Bigelow Laboratory for Ocean Sciences	No
12:45p-1:00p	Behavioral Response of Marsh Nekton to Macondo Oil	Charles Martin, Louisiana State University	No
1:00p-2:30p	Lunch Break		
2:30p-2:45p	Forensic fingerpringting and source identification of hydrocarbons in oil contaminated environmental samples	Zhendi Wang, Environment Canada	No
2:45p-3:00p	Oil Fingerprinting and Polarimetric Radar Mapping of Macondo-252 Oil in Gulf Coast Marshes	Buffy Meyer, Louisiana State University, Dept. of Environmental Sciences	No
3:00p-3:15p	Apples and Oranges? Characterizing spilled and seeped oil in the GOM	Beizhan Yan, Lamont-Doherty Earth Observatory	No
3:15p-3:30p	Resilience and Recovery of Salt Marsh Benthic Communities	Charles Wall, LUMCON	No
3:30p-4:00p	Coffee Break		
4:00p-4:15p	investigation of Recurring Residual Oil in Discrete Shoreline Areas in Mississippi, Alabama and Florida	Wade Bryant, U.S. Geological Survey	No
4:15p-6:00p	Facilitated Discussion	Joel Hayworth, Auburn University	

Session 008

ADVANCES IN DISPERSANT SCIENCE AND TECHNOLOGY: MOLECULAR MECHANISMS, NOVEL DISPERSANT SYSTEMS, AND ENVIRONMENTAL IMPACTS

Tuesday, January 28, 9:15am-6:00pm, Bon Secour Bay II

Session Chairs:

Norma Alcantar, University of South Florida* Ronald Larson, University of Michigan Ramanan Krishnamoorti, University of Houston Berrin Tansel, Florida International University

The session will be directed to new advances in dispersant science and technology focusing on translation from fundamental physiochemical aspects to the integrative aspects of dispersant fate and ecosystem impacts. A distinctive aspect of the session is the integration of length scales, from molecular concepts to the large scale of dispersant application in the open ocean environment. Additionally, the session will reflect research encompassing the extremely small temporal scale of dispersant dynamics, to the long term fate of dispersants. This session will include mini-sessions on each of these aspects, and discussion seeking to integrate the time and length scales of dispersant action. Talks will also focus on the next generation of dispersants including novel methods of delivery. We seek unifying concepts of dispersant application in deep sea environments, in surface spills representative of incidents in the Gulf of Mexico, and spills in the Arctic.

Time	Title	Presenter	Student
9:15a-9:20a	Session Introduction	Norma Alcantar, University of South Florida	
9:30a-9:45a	Herders for Rapid In Situ Burning of Oil Spills on Open or Ice-covered Water	Tim Nedwed, ExxonMobil Upstream Research Company	No
9:45a-10:00a	Complex surfactant layers at fluid-fluid interfaces and the impact on droplet coalescence	Lynn Walker, Chemical Engineering, Carnegie Mellon University	No
10:00a-10:15a	Simulations-based Design of a Hydrophobically-modified Chitosan Dispersant	Steven Benner, NC State University	Yes
10:15a-10:30a	A safe and effective dispersant for oil spills based on food-gradeaphiphiles	Jasmin Athas, University of Maryland, College Park	Yes
10:30a-10:45a	Cactus Based-Mucilage as an Alternative Natural Dispersant to be Incorporated in Oil Spill Response Strategies	Fei Guo, University of South Florida	Yes
10:45a-11:00a	Nanoemulsions obtained via bubble bursting at a compound interface	Jie Feng, Princeton University	Yes
11:00a-11:30a	Coffee Break		
11:30a-11:45a	Sequential adsorption studies of Tween 80 and Aerosol-OT at an oil/aqueous interface	Stephanie Kirby, Carnegie Mellon University	Yes
11:45a-12:00p	Dendritic polymers as oil spill dispersants: Effectiveness and toxicity compared to Corexit 9500	David Ladner, Clemson University	No
12:00p-12:15p	Does subsea injection of dispersant make any difference? Study of dispersant injection - a down-scaled experimental approach.	Per Johan Brandvik, SINTEF	No
12:15p-12:30p	Quantifying the transport and surface expression of oil under different dispersant treatments using a particle tracking model	Jeremy Testa, Chesapeake Biological Laboratory	No
12:30p-12:45p	Laboratory Experimental Demonstration Of The Effect Of Oceanic Whitecap In Transferring Oil And Dispersant Compounds to Atmosphere	Paria Avij, Louisiana State University	Yes
12:45p-1:00p	Collision Rates and Mechanisms for Oil Droplets and Marine Snow	Evan Variano, UC Berkeley	No
1:00p-2:30p	Lunch Break		
2:30p-2:45p	Effects of hydrophobic particles on the rheology of hydrate-forming Pickering emulsions	Amit Ahuja, Benjamin Levich Institute for Physico-Chemical Hydrodynamics, The City College of New York	Yes
2:45p-3:00p	The rheology of carbon black stabilized emulsions with surfactant interactions	Michael Godfrin, Brown University	Yes
3:00p-3:15p	Pickering Emulsion Formation using Iron Oxide Nanoparticles Stabilized with Novel Surfactant Bilayers	Pranav Vengsarkar, Auburn University	Yes
3:15p-3:30p	Effective Nanoparticle-Based Dispersants for Oil-in-Synthetic Seawater Emulsions	Lynn Foster, The University of Texas at Austin	No
3:30p-4:00p	Coffee Break	·	
4:00p-4:15p	Toxicity of Corexit 9500 and its major components to early life stage Sheepshead Minnows	Subham Dasgupta, Stony Brook University	Yes
4:15p-4:30p	Corexit in Gulf of Mexico Sediments	Matt Perkins, Oregon State University	Yes
4:30p-4:45p	Response of deep-water corals to oil and dispersant exposure	Danielle Young, Temple University	Yes
4:45p-5:00p	Dispersant Corexit 9500A Increases the Toxicity of Crude Oil to Marine Zooplankton	Rodrigo Almeda, University of Texas at Austin Marine Science Institute	No
5:00p-6:00p	Facilitated Discussion	Heidi Stiller, NOAA	

Session 009

PUBLIC HEALTH, ECOLOGY AND SOCIETY IN THE CONTEXT OF RESILIENCE: A SYSTEMS APPROACH TO ASSESSING THE POTENTIAL IMPACT OF THE GULF OF MEXICO OIL SPILL

Tuesday, January 28, 9:15am-6:00pm, Mobile Bay Ballroom

Session Chairs:

Maureen Lichtveld, Tulane University School of Public Health and Tropical Medicine* Symma Finn, National Institute of Environmental Health Sciences Dale Sandler, National Institute of Environmental Health Sciences Jeffrey Wickliffe, Tulane University School of Public health and Tropical Medicine Joseph Griffit, University of Southern Mississippi

Communities on the U.S. Gulf Coast have faced decades of interdependent environmental, public health, psychosocial, and economic challenges directly affecting their individual health and that of their communities. Among those challenges are historical environmental contamination, lack of preparedness against natural disasters and the impact of those disasters on physical and mental health, persistent health disparities related to chronic conditions including cancer and asthma or to birth outcomes such as preterm birth and low birth weight. In addition to previous natural disasters such as Hurricane Katrina, the Gulf of Mexico oil spill further stressed coastal habitats and communities resulting in a complex array of new scientific questions and concerns, including the role of resilience in disaster recovery of ecosystems and people. While extensive investigations are under way and progress has been made in expanding the discipline-specific knowledge base, robust interdisciplinary research has been limited. This session will bring together researchers to present findings and identify gaps from an integrated environmental public health, ecosystem and social science perspective. Using a systematic environmental pathway framework, three tailored presentations modules will focus on characterizing the spill-related exposures (module 1: environmental media and exposure), examining the ecosystem, and human health impacts (module 2: public health, ecosystem, and socioeconomic impact), and evaluating evidence-based strategies to bolster community engagement in oil spill research (module 3: Community Engagement in Research, Outreach and Education) with the overall aim to reduce adverse public health, ecosystems, and societal effects and improve preparedness for future events by strengthening ecosystem, and community resilience.

Time	Title	Presenter	Student
9:15a-9:30a	Session Introduction	Maureen Lichtveld, Tulane University	
9:30a-9:45a	Human Research: Where are we?	Linda Birnbaum, National Institute of Environmental Health Sciences	No
9:45a-10:00a	Factors Associated with Current Chemical Exposures in Gulf Residents	Dale Sandler, National Institute of Environmental Health Sciences/NIH	No
10:00a-10:15a	Food Frequency Questionnaire to Discern Seafood Consumption Patterns in Northern Gulf of Mexico Communities As Relevant to the DWH Oil Spill	Makyba Charles, University of Florida, Aquatic Pathobiology Laboratories	Yes
10:15a-10:30a	Simultaneous exposure to chronic hypoxia and dissolved PAHs results in reduced egg production and larval survival in the sheepshead minnow (Cyprinodon variegatus).	Bryan Hedgpeth, University of Southern Mississippi	Yes
10:30a-10:45a	Exposure and Health Impact Differences Between an Exposure and Epidemiological Study	Jaishree Beedasy, Columbia University	No
10:45a-11:00a	Facilitated Discussion	Maureen Lichtveld, Tulane University	
11:00a-11:30a	Coffee Break		
11:30a-11:45a	Associations between oil spill experience and mental health in pregnant and reproductive-aged women	Emily Harville, Tulane University	No
11:45a-12:00p	New Evidence for the Impact of Cumulative Life Trauma on Mental Health Outcome after the Gulf of Mexico Oil Spill	Lynn Grattan, University of Maryland School of Medicine	No
12:00p-12:15p	Mental health symptomsaong GuLF STUDY participants involved in the Deepwater Horizon oil spill clean-up	Richard Kwok, NIEHS	No
12:15p-12:30p	Prepared for the Worst? Resilience Gaps in the Natural/Technological Disaster Divide	Brian Mayer, University of Arizona	No
12:30p-12:45p	Resilience of Ecosystem Services and Coastal Communities	David Yoskowiitz, Harte Research Institute	No
12:45p-1:00p	Coastal resilience and the market for Gulf seafood	Rex Caffey, Center for Natural Resource Economics & Policy, Louisiana Sea Grant College Program	No
1:00p-2:30p	Lunch Break		
2:30p-2:45pm	Facilitated Discussion	Maureen Lichtveld, Tulane University	
2:45p-3:00p	Use of the Community Assessment for Public Health Emergency Response (CASPER) to Meet the Data Needs of a New Interstate and Interagency Partnership	Lauren Czaplicki, Louisiana Public Health Institute	No
3:00p-3:15p	Utilizing A Community Advisory Committee To Define Future Community Efforts For The Healthy Gulf, Healthy Communities Project	Angie Lindsey, University of Florida	No
3:15p-3:30p	Making Environmental Health Science Relevant at the Grass Roots: a CBPR collaborationaong fishermen and scientists to investigate human health and ecosystem integrity post DWH oil spill	John Sullivan, University of Texas Medical Branch	No
3:30p-4:00p	Coffee Break		
4:00p-4:15p	Secondary Science Education in Southeast Louisiana_Connecting with Teachers and Students Through Higher Education Environmental Health Sciences	Lynette Perrault, Tulane University	No
4:15p-5:15p	Facilitated Discussion	Maureen Lichtveld, Tulane University	
5:15p-5:30p	A Research Roadmap for the Future	Bernard Goldstein, University of Pittsburgh	No
5:30p-6:00p	Facilitated Discussion	Maureen Lichtveld, Tulane University	

Session 010 CURRENT AND FUTURE ECOSYSTEM-MONITORING STRATEGIES IN THE GULF OF MEXICO: SPANNING DISCIPLINES, PLATFORMS, AND AFFILIATIONS

Tuesday, January 28 9:15am-6:00pm, Bon Secour Bay III

Session Chairs:

Rebecca Green, Bureau of Ocean Energy Management (BOEM)* Chris Elfring, National Academy of Sciences (NAS) Alyssa Dausman, USGS Steven Murawski, University of South Florida

This session will focus on ecosystem monitoring studies currently underway in the Gulf, as well as a vision for an expanded ocean observing network for meeting regional coastal and ocean energy-related needs, including oil spill response, restoration, and effects on human health. "Ecosystem monitoring" broadly spans a variety of disciplines, spatiotemporal scales, and data collection methods, all of which will be appropriate topics. For example, monitoring may include continuous *in situ* measurements from a buoy network, periodically repeated habitat surveys, pre- and post-activity studies, and remote sensing time series. As well, ocean observing encompasses multiple disciplines, and interdisciplinary participation is of key importance, ranging from the physical, chemical, and biological sciences (e.g., hydrodynamics, pollutants, lower- to higher-trophic levels) to socio-economic considerations (e.g., societal and economic benefits). Discussion will include the numerous types of monitoring that are currently underway, including in response to the DWH oil spill, as well as the coastal and ocean community's observing priorities and vision for an expanded, integrated observing network in support of future spill response and research.

The session strongly encourages and incorporates interdisciplinary contributions from the various science disciplines and policy/decision makers, including universities, NGOs, state and Federal government, and business and industry. Session framework incorporates invited speakers, oral and poster sessions, and facilitated discussion, including an Agency-Perspectives panel. A final report will synthesize current monitoring assets/projects relevant to Gulf spill research, the monitoring community's observing priorities, and recommendations on enhancements for a future "right-sized" observing operation.

Time	Title	Presenter	Student
9:15a-9:30a	Session Introduction	Rebecca Green, BOEM	
9:30a-10:00a	What's the Right Observing Network?	Richard Spinrad, Oregon State University	No
10:00a-10:30a	Update on Gulf Coast Ecosystem Restoration Council Activities	Justin Ehrenwerth, Gulf Coast Ecosystem Restoration Council	No
10:30a-10:45a	GCOOS Contributions to the Deepwater Horizon Response and Collaborative Planning for a Gulf Regional Observing System	Stephanie Watson, Consultant in Ocean Observing and Coastal Management	No
10:45a-11:00a	Measuring the private and social economic benefits of the Gulf of Mexico Coastal Ocean Observing System (GCOOS)	Rex Caffey, Louisiana State University	No
11:00a-11:30a	Coffee Break		
11:30a-11:45a	The GOMA Gulf Monitoring Network: foundational water quality and biological monitoring to assess overall sustainability of Gulf health	Steven Wolfe, Gulf of Mexico Alliance, Water Quality Team	No
11:45a-12:00p	Developing a Decision-Making and Governance Framework for a Coordinated Gulf-Wide Observational Program	Monty Graham, The University of Southern Mississippi	No
12:00p-12:15p	Gulf of Mexico Monitoring Programs: Preliminary Results of a Survey and Gap Analysis	Matt Love, Ocean Conservancy	No
12:15p-12:30p	Establish a satellite-based virtual buoy system for coastal water quality monitoring and decision support	Chuanmin Hu, University of South Florida	No
12:30p-12:45p	Environmental monitoring: BOEM at a crossroad	Alexis Lugo-Fernandez, Bureau of Ocean Energy Management	No
12:45p-1:00p	Operational Monitoring of Subsea Dispersant Operations	Gina Coelho, HDR Ecosystem Management	No
1:00p-2:30p	Lunch Break	-	-
2:30p-2:45p	SEAMAP Plankton Monitoring Activities: past, present and future	Glenn Zapfe, NOAA/NMFS/SEFSC/ Mississippi Labs	No
2:45p-3:00p	Out of Sight But Not Out of Mind: Research Priorities to Assess and Monitor the Health and Status of Gulf of Mexico Marine Mammals and to Inform Restoration Efforts	Victoria Cornish, Marine Mammal Commission	No
3:00p-3:30p	Facilitated Discussion	Ann Weaver, NOAA Gulf Coast Services Center	
3:30p-4:00p	Coffee Break		
	Gulf Coast Ecosystem Restoration Science, Observation, Monitoring and Technology Program	Russ Beard, NOAA	No
	Scaling up comprehensive coastal wetland and barrier island monitoring in Louisiana: A potential approach and template for a gulf-wide network	Gregory Steyer, U.S. Geological Survey	No
4:00p-5:00p (Panel)	NASA Remote Sensing	Duane Armstrong, NASA Stennis Space Center	No
	Linking Ecosystem Condition to Goods and Services: Monitoring to Inform the Science and Vision of Gulf Coast Restoration	Janis Kurtz, U.S. Environmental Protection Agency	No
	The importance of an Integrated Ocean Observing System	Pasquale Roscigno, Bureau of Ocean Energy Management (BOEM)	No
5:00p-6:00p	Facilitated Discussion	Ann Weaver, NOAA Gulf Coast Services Center	

TUESDAY POSTER SESSIONS

Tuesday, January 28 6:00pm-8:00pm Main Ballroom (Convention Center)

#	Title	Presenter	Student
SESSIO	N 5		
5-152	Efficiency and effectiveness of Corexit dispersants for removing Louisiana crude oil from contaminated natural surfaces in salt water environment	Berrin Tansel, Florida International University	No
5-153	GOM Deepwater Horizon Oil Spill: Combustion-Derived Hydrocarbons	Christina Palomo PALOMO, Northwestern State University	Yes
5-154	Changes In Sedimentary Ratios Of Oil-Derived Biomarkers Within Three Years Following The Macondo Blowout	Lydia Babcock-Adams, University of Georgia	Yes
5-155	Molecular Evidence of Heavy Oil Degradation Following the M/V Cosco Busan Spill	Christopher Reddy, Woods Hole Oceanographic Institution	No
5-156	Comprehensive Characterization Of The Formerly 'Unresolved Complex Mixture' Reveals Evolution Of Chemical Composition During Weathering Of Crude Oil In The Gulf Of Mexico	David Worton, U.C. Berkeley	No
5-157	Persistent Radicals in Tar Balls	Slawo Lomnicki, Louisiana State University	No
5-158	APCI and APPI-GC/MS for Characterization of the Macondo Oil Spill	Vladislav Lobodin, National High Magnetic Field Laboratory	No
5-159	Using experimental wetlands to examine oil spill impacts and restoration potential in Alabama salt marshes	Christopher Anderson, Auburn University	No
5-160	Examining the mechanisms of oil degradation with infrared spectroscopy and two-dimensional correlation analysis	Patrick Williams, Haverford College	Yes
5-161	Nearshore Sticky Waters	Juan Restrepo, University of Arizona	No
5-162	Inhibition of Microbial Growth is Dependent on Photochemical Changes in MC252 Water Accommodated Fractions	Wade Jeffrey, University of West Florida	No
5-163	Aerobic Methanotrophy Along The Chemocline of a Methane Rich Brine Basin: Patterns, Limitations and Implications to Pelagic Ecosystems.	Jessica Battles, University of Georgia	Yes
5-164	A Graphical User Interface for Simulating the Biodegradation of Subsurface oil on the Shorelines	Jagadish Torlapati, New Jersey Institute of Technology	No
5-165	Laboratory and Natural Beach Modeling to Characterize the Impact of Evaporation on Groundwater Dynamics in a Sandy Beach Polluted with the Deepwater Horizon Oil Spill	Firas Saleh, New Jersey Institute of Technology	No
5-166	Studies of Crude Oil of its Surface Tension and the Contamination of Sand	Yufei Duan, Tulane University	Yes
5-167	Identification of Water-Soluble Compounds Formed After Irradiation of Macondo Well Oil	Phoebe Ray, University of New Orleans	Yes
5-168	Productivity of waterbirds in potentially-impacted areas of Louisiana in 2011	Joanna Burger, Rutgers University	No
5-169	Stable isotope composition of weathered oil: Implications for tracing oil degradation and bioassimilation	Heather Patterson, Dauphin Island Sea Lab	Yes

#	Title	Presenter	Student
5-170	Impact Of Exposure Of Crude Oil And Dispersant (COREXIT® EC 9500A) On Denitrification And Organic Matter Mineralization In A Louisiana Salt Marsh Sediment	Kewei Yu, Troy University	No
5-171	Effects of mechanical stress, size, and ambient temperature on the degradation rates of tarballs in shallow nearshore environments	John Kaba, Florida State University	Yes
5-172	A Long-term Investigation Of Spatial And Temporal Distribution Of Polycyclic Aromatic Hydrocarbons In Deepwater Horizon Oil Spill Samples Collected From Alabama Shoreline	Fang Yin, Auburn University	Yes
5-173	Oil Spill Model Validation: A Topological Approach	Jonathan Ubnoske, Florida State University	Yes
5-174	'All stressed out'. The science behind algae-dispersant interaction driving oil sedimentation and persistence.	AlberTinka Murk, Wageningen University	No
5-175	FT-ICRMS Analyses of Photochemical Changes in Water Accommodated Fractions of MC252 and Surrogate Oil Created During Solar Exposure	Pamela Vaughan, University of West Florida	No
5-176	Influence of buried crude oil and algal material on oxygen consumption in sediments collected along a depth transect through DeSoto Canyon	William Wells, Florida State University	Yes
5-177	Quantification of Stokes Drift as a Mechanism for Surface Oil Advection in the DWH Oil Spill	Matthew Clark, Florida State University	Yes
5-178	PAH concentrations and biomarkers of exposure in plankton and neuston from two sites in the Gulf of Mexico after the Deepwater Horizon oil spill	LaTrisha Allen, Florida A & M University	Yes
5-179	Nutrient and electron acceptor impacts on biodegradation of MC252 crude oil in coastal wetlands	Matthew Rodrigue, Louisiana State University	Yes
5-180	Oil sheen weathering post deepwater horizon	Christopher Reddy, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts	No
5-181	Uptake and Deposition of Pyrogenic and Petrogenic PAHs on Spartina Leaves at Two Field Sites	Yasmin Mohammad, Louisiana State University	Yes
5-182	Investigation of recent sediments around the Deepwater Horizon blowout in the Gulf of Mexico using FTICR-MS techniques	C. Ken Chanthamontri, University of Calgary	No
5-183	A practical reassessment of common conventions about preservation and holding times for samples collected for contaminant chemistry analysis	Gregory Baker, NOAA	No
5-184	RNA in mercuric chloride-poisoned sediment trap material: Preservation or growth?	Barbara MacGregor, University of North Carolina	No
5-185	Fates of dissolved inorganic nitrogen in natural oil seep habitats along the Gulf of Mexico deep slope	Lindsey Fields, University of Georgia	No
5-186	The effect of chemical dispersants and crossflow on turbulent crude oil jets and plumes	David Murphy, Johns Hopkins University	No
5-187	Oil dispersant Corexit EC9500A accelerates photodegradation of pyrene in seawater	Dongye Zhao, Auburn University	No
5-188	Modeling Aging Oil	Juan Restrepo, University of Arizona	No

#	Title	Presenter	Student
5-189	Facile Detection of PAHs via Three-Component Energy Transfer in Complex Environments for Oil Spill Response	Nicole Serio, University of Rhode Island	Yes
5-190	Variability in the hydrocarbon composition of oil films on rocks along the Gulf coast post the Deepwater Horizon disaster	Bryan James, Woods Hole Oceanographic Institution	Yes
5-191	PAHs Degradation In The Emerged And The Submerged Marsh Wetland Sediments Studied In A Laboratory Mesocosms	Doorce Batubara, Louisiana State University	Yes
5-192	Biodegradation Of MC252 Components In Oil:Sand Aggregates On The Supratidal Beach Environment	Vijaikrishnah Elango, Louisiana State University	No
5-193	Impacts of the 2010 Macondo Oil Spill on Marshes in Barataria Bay, Terrebonne Bay, and Breton Sound, Louisiana, Using Landsat and ASTER Data	Michael Kearney, University of Maryland	No
5-194	A Radiocarbon-Based Determination of the Flux of Oil to the Sea Floor	Jeff Chanton, Florida State University	No
5-195	Oily marine aerosol production at the air-sea interface	David Murphy, Johns Hopkins University	No
5-196	Partitioning Behavior of Low Molecular Mass Xenobiotic Components within Live Crude Oil/Seawater Systems	Gavin Phinney, Petroleum Reservoir Group, Department of Geoscience, University of Calgary	No
5-197	238U-234Th disequilibria as a tracer of Polycyclic Aromatic Hydrocarbon fluxes in Northern Gulf of Mexico.	Somiddho Bosu, Louisiana State University	Yes
5-198	Electrical Resistivity Imaging for Long Term Autonomous Monitoring of Hydrocarbon Degradation: Lessons from the Deepwater Horizon Oil Spill	Jeffrey Heenan, Rutgers - Newark	Yes
5-199	Temporal Variability In Polycyclic Aromatic Hydrocarbons Transport In The Northern Gulf Of Mexico	Puspa Adhikari, Louisiana State University	Yes
5-200	Using Detailed Chemical Composition of Surfaced Oil to Model Evaporative Weathering and Predict Secondary Aerosol Formation Potential	Greg Drozd, UC Berkeley	No
5-201	Development Of A Novel Analytical Method Using Gas Chromatography- Tandem Mass Spectrometry For Characterizing Alkylated Chrysenes In Crude Oil Samples	Gerald John, Auburn University	Yes
5-202	The fate of oil in sunlight exposed thin films is affected by polycyclic aromatic hydrocarbon sensitized photochemistry	Dustin Kountz, University of New Orleans	Yes
5-203	Study of the Photophysics and Photodynamic occurring in thin films of crude oil	Nicholas Leed, Tulane University	No
5-204	A new biodegradation index for weathered oils based on saturated hydrocarbons: insights from the Deepwater Horizon disaster	Christopher Reddy, Woods Hole Oceanographic Institution	Yes
5-205	Using Hopane and Sterane Biomarker Ratios to Determine the Origin of Oil Residues in the Gulf of Mexico	David Findley, Haverford College	Yes
5-206	Estimating the Potential Cross-shore Distribution of Oil Mat Formation in the Surf Zone during the Deepwater Horizon Oil Spill	Soupy Dalyander, U.S. Geological Survey	No
5-207	Hindcast Oil Plume Spreading by a High Resolution Ocean Model Coupled to an Oil Spill Model	david dietrich, San Diego State University	No
5-208	Near Real-Time Determination of Volatile Organic Compounds in Air and Water Samples Associated with Dispersed Crude Oil	Parichehr Saranjampour, Louisiana State University	Yes
5-209	Examining the Environmental and Geochemical Controls on the Degradation of Oil by Fungi Isolated from Oil-Soaked Sand Patties in the Gulf of Mexico	Rachel Simister, Haverford College	No
5-210	A Qualitative Time-Dependent Model of the Fate of MC252 Oil and Gas in the Gulf of Mexico	Gilbert Rowe, TAMUG	No

#	Title	Presenter	Student
5-211	GISR Drift Card Program: Surface Transport Observation	Joe Kuehl, Geochemical and Environmental Research Group, Texas A&M University	No
5-212	Optimization of a Novel Method to Isolate Interfacially Active Species from Crude Oil and Characterization by Electrospray Ionization FT-ICR Mass Spectrometry	Amy Clingenpeel, Florida State University	Yes
5-213	Biodegradation Of Long Chain Alkanes And Alkenes By Enrichment Cultures Under Methanogenic, Sulfate-Reducing And Iron-Reducing Conditions	Martijn Smit, Wageningen University	No
5-214	Near Real-Time Determination of Volatile Organic Compounds in Air and Water Samples Associated with Dispersed Crude Oil	Parichehr Saranjampour, Louisiana State University	Yes
5-215	Recombinant Antibodies That Recognize Alkylated Polycyclic Aromatic Hydrocarbons (PAHs)	Yue Sun, Tulane University Sch. of Med.	Yes
5-216	Understanding the effects of Gulf crude oil and/or Corexit on behavioral alterations and hematological changes in rodents	Dwipayan Bhattacharya, Auburn University	Yes
5-217	Weathering patterns for various aliphatic and aromatic hydrocarbons in laboratory biodegradation studies of both fresh and dispersed Macondo oil	Ed Overton, Louisiana State University	No
5-218	Impact of Photolyzed vs. Non-Photolyzed Oil on Sulfate-Reducing Bacteria in Gulf of Mexico Sediments	Jamie Cote, University of Oklahoma, Department of Microbiology and Plant Biology	Yes
5-219	Biodegradation of MC252 crude oil after mobilization by washover events on a coastal headland beach	David Curtis, Louisiana State University	Yes
5-220	Interannual Recruitment Dynamics for Resident and Transient Marsh Species: Evidence for a Lack of Impact by the Macondo Oil Spill	Ryan Moody, Dauphin Island Sea Lab	No
5-221	Polycyclic Aromatic Hydrocarbons of Deepwater Horizon oil buried in Pensacola Beach sands and their changes over time	Christopher Hagan, Florida State University	Yes
5-222	Compressive sensing multispectral imaging for oil spill sensing and ecosystem monitoring	Wei-Chuan Shih, University of Houston	No
5-223	Biogeochemical controls on fate of subsurface oiled sands on a coastal headland beach	Autumn Westrick, Louisiana State University	Yes
5-224	Optimization of Mass Range, Dynamic Range, Signal-to-Noise Ratio, Mass Resolution, and Mass Accuracy for Characterization of Oil Spills by FT-ICR Mass Spectrometry	Alan Marshall, Florida State University	No
5-225	Swimming characteristics of Escherichia coli cells in restricted geometries	Yuly Jaimes-Lizcano, Tulane University	Yes
5-226	How do bacteria respond to MC252 crude oil in offshore deep sea and surface Gulf of Mexico waters?	Jiqing Liu, The University of Texas at Austin Marine Science Institute	No
5-227	Spatial and temporal biogeography of aerobic methane-oxidizing bacteria surrounding Gulf of Mexico methane seeps	Matthew Saxton, University of Georgia	No
5-228	Polycyclic Aromatic Hydrocarbon Distribution and Modification in the Sub- surface Plume Near the Deepwater Horizon Wellhead	Alan Shiller, University of Southern Mississippi	No
5-229	Ecological impact of oil and dispersants on tidal flats tested in mesocosms	Edwin Foekema, IMARES Wageningen UR	No
5-230	Evaluating the Toxic Effects of MC252 Crude Oil trapped in"Tarmat Deposits"	Dwipayan Bhattacharya, Auburn University	Yes
5-231	Fate Of Chemically Dispersed Oil Undergoing Aerobic Biodegradation Under Controlled Conditions	Yves Robert Personna, New Jersey Institute of Technology	No
5-232	Interactions between oil droplets and surfaces immersed in water	Noshir Pesika, Tulane University	No
5-233	How do environmental factors affect biodegradation of crude oil in Gulf of Mexico waters?	Zhanfei Liu, The University of Texas at Austin	No

#	Title	Presenter	Student
5-234	Characterization and fate of crude oil derived water-soluble polar organic components in seawater	Yina Liu, Woods Hole Oceanographic Institution	No
SESSIO	N 8		
8-278	The impact of mass transfer on the dynamics of droplets released in quiescent medium	Abhijit Rao, Louisiana State University	Yes
8-279	Micellization of Alcohol Ethoxylate Surfactants	Andrew Bodratti, University at Buffalo - The State University of New York	Yes
8-280	Dispersing Droplets with Solid Particles: how interface shape and particle crowding affect capillary forces	Wei He, University of Massachusetts Amherst	Yes
8-281	Polyester-based Photocatalytic Nanocomposite Microsponges for Water Clean-up	Fei Liu, University of Alabama at Birmingham	Yes
8-282	Light and Heavy Crude Oil Droplets Stabilized with Carbon Black and Surfactants: Shear Flows and Bacteria Interactions	Sarah Mirza, Brown University	Yes
8-283	Molecular dynamics simulation of oil dispersion using hydrophobins	Yuwu Chen, Louisiana State University	Yes
8-284	Dynamic Behavior of Cerato Ulmin - A Class II Hydrophobin	Xujun Zhang, Louisiana State University	Yes
8-285	Factors Affecting the Sorption of DOSS to Coastal Louisiana Sediments	Bruce Brownawell, Stony Brook University	Yes
8-286	Mechanisms of Emulsion Stabilization by Surface Modified Carbon Black	Kristin Conrad, University of Florida	Yes
8-287	Clathrate Hydrate Formation at Particle-laden Interfaces	Jae Lee, The City College of New York	No
8-288	The biological footprint of oil and dispersant exposure	Iliana Baums, The Pennsylvania State University	No
8-289	Analysis of Corexit oil spill dispersants and their degradation products in seawater by high-resolution tandem mass spectrometry.	P. Ferguson, Duke University	No
8-290	Chemical dispersants used in oil spill response alter microbial community composition and evolution but not microbial activity	Samantha Joye, University of Georgia	No
8-291	How do oil dispersants work? Exploring the physical phenomena which drive chemical oil spill dispersion	David Riehm, University of Minnesota	Yes
8-292	Guidance for Improving Dispersed Oil Toxicity Testing	Tom Parkerton, ExxonMobil Biomedical Sciences Inc	No
8-293	Polymer-Modified Silica Nanoparticles: Modulation of Interactions by Displacers	Andrew Bodratti, University at Buffalo - The State University of New York	Yes
8-294	Extraction and quantification of DOSS from deep-sea sediments	Shelby Lyons, Haverford College	Yes
8-295	Adsorption and Release of Active Species into and from Multifunctional Ionic Microgel Particles	Haobo Chen, Arizona State University	Yes
8-296	Effects of photodegraded crude oil and crude oil-dispersant mixtures on marine species, Arbacia punctulata and Vibrio fisheri	Robyn Hallowell, University of Colorado - Boulder	Yes
8-297	The Toxicity Of Particle-based Dispersants For Marine Oil Spills And Their Impact On Benzene Toxicity Using The Model Organism Artemia franciscana	April Rodd, Brown University	Yes
8-298	The Cytotoxic and Genotoxic Impacts of Chemical Dispersants, Oil and Chemically Dispersed Oil on Sperm Whale Skin Cells	John Wise, University of Southern Maine	No
8-299	Real-World versus Laboratory: Understanding the Implications of Scientific Design and Exposure Methodology for Oil and Dispersed Oil Research	Gina Coelho, HDR Ecosystem Management	No
8-300	A Comparison of the Effectiveness of Solid and Solubilized Dioctyl Sodium Sulfosuccinate on Oil Dispersion Using a Baffled Flask Test	Emmanuel Nyankson, Auburn University	Yes
8-301	Novel water-based dispersant gels for the treatment of oil spills	Olasehinde Owoseni, Tulane University	Yes
8-302	A dual function system for the sequestration and detection of oil-spill related polycyclic aromatic hydrocarbons	Mindy Levine, University of Rhode Island	No

#	Title	Presenter	Student
8-303	Toxicity of a Promising Oil Spill Dispersant to Daphnia magna	Maryam Salehi, University of South Alabama	Yes
8-304	Impact of dispersant exposure on the deep-water coral Leiopathes glaberrima	Dannise Ruiz-Ramos, The Pennsylvania State University	Yes
8-305	Amphiphilic copolymer-grafted silica nanoparticles as a template for novel oil dispersants	Kyle Bentz, University of Southern Mississippi	Yes
8-306	A Novel Route to the Formation of Pickering Emulsions	Amitesh Saha, University of Rhode Island	Yes
8-307	Macromolecular Characterization of Novel Concentration-Independent Dispersants for Improved Oil Spill Remediation	Alina Alb, Tulane University	No
8-308	Structural-thermodynamic relationships for adsorption of Corexit® surfactants from coarse-grained simulations	Kyle Huston, University of Michigan, Ann Arbor	Yes
8-309	Co-Stabilization of Octane/Water Emulsions by Silica Particles and Charged Surfactants	Anju Gupta, Texas A&M International University	No
8-310	Development of an anti-deposition dispersant to mitigate fouling of coastal flora and fauna by spilled oil.	Robert Lochhead, The University of Southern Mississippi	No
8-311	Dispersion Effectiveness of Corexit 9500A in Deep Salt Water Environment	Daria Boglaienko, Florida International University	Yes
8-312	Surface tension of crude oil contaminated saltwater in the presence and absence of Corexit dispersants: Effect of hydrostatic pressure	Ariadna Arreaza, Florida International University	Yes
8-313	Effects of Corexit EC9500A Used for Oil Spill Remediation on Denitrification Rates of Louisiana Coastal Wetland Soil	Jason Pietroski, Louisiana State University	Yes
8-314	Use of the OHMSETT Facility to Provide Researchers with an Enhanced Awareness of Oil Spill Dispersant Performance in Near Real World Conditions	Erik DeMicco, ExxonMobil	Yes
8-315	Copolymer Grafted Nanoparticle-based Oil Dispersants	Daehak Kim, University of Houston	Yes
8-316	Bioconcentration of Corexit® Dispersant Surfactant in the Oyster Crassostrea gigas	Andrea Boorse, OES	Yes
8-317	NEBA of dispersant use should consider persistent residues formed by competing weathering processes.	Roger Prince, ExxonMobil Biomedical Sciences Inc.	No
8-318	Anti-Redeposition Properties of Cellulose-Based Oil Dispersant Determined by Quartz Crystal Microscopy and Atomic Force Microscopy	Sarah Morgan, University of Southern Mississipi	No
8-319	Molecular Dynamics Simulation Of Oil Alkanes And Dispersants In Atmospheric Air/Salt Water Interfaces	Zenghui Zhang, Louisiana State University	Yes
8-320	Synthesis of "single nanoparticle micelles": Grafting amphiphilic polymers from silica nanoparticles using poly(caprolactone) and PEG	Scott Grayson, Tulane University	No
8-321	Comparison of DOSS Extraction Techniques Suitable for Seafood Matrices	Darrell Sparks, Mississippi State Chemical Laboratory	No
8-322	Evaluation of Droplet/Bubble Models for Subsurface Dispersant Application	Eric Adams, Massachusetts Institute of Technology	No
8-323	Interfacial Thermodynamics of Pickering Emulsions Stabilized by Two- Dimensional Materials	Robert Hurt, Brown University	No
8-324	Amphiphilic Polymer Grafted Silica Nanoparticles by Combination of Ring Opening Polymerization of ϵ -Caprolactone and Coupling of Poly(ethylene Glycol) by Esterification	Muhammad Ejaz, Tulane University	No
8-325	Photoenhanced Toxicity of Crude Oil and Chemically Dispersed Oil to Copepods	Sarah Baca, University of Texas at El Paso	Yes

#	Title	Presenter	Student
8-326	Probing oil-water-dispersant interaction at the nanometer length scale using small angle x-ray scattering	Amitava Roy, Louisiana State University	No
8-327	Effects of dendrimer oil dispersants on Dictyostelium discoideum	Nicholas Geitner, Clemson University	Yes
8-328	Lipid-coated silica nanoparticle oil dispersants	Sarah Fields, University of Rhode Island	Yes
8-329	Design and synthesis of well-defined "polysoaps" to serve as uni-molecular micelles for oil spill remediation	Phillip Pickett, University of Southern Mississippi	Yes
8-330	Chemical Herding and the Anchoring of Surface Oil Layers using an Environmentally Benign Biopolymer	Olasehinde Owoseni, Tulane University	Yes
8-331	Sorption of Corexit Ingredients to Gulf of Mexico Sediments	Bruce Brownawell, Stony Brook University	No
8-332	The use of natural ammonia removing agents for preserving bait and fresh caught fish	Wen Zhao, University of South Florida	Yes
8-333	Rheology of Pickering Emulsions: Effect of Particle Shape	Hari Katepalli, University of Rhode Island	Yes
SESSIO	N 9		
9-334	Integrating Indicators of Social Vulnerability and Community Resilience to Assess Long-Term Recovery	Brian Mayer, University of Arizona	Yes
9-335	Metabolism of Representative Alkylated and Oxygenated Petrogenic Polycyclic Aromatic Hydrocarbons in Human Hepatoma (HepG2) Cells	Meng Huang, University of Pennsylvania	No
9-336	Developing a Rapid Community Prioritization Process for the Gulf Region Health Outreach Program's Primary Care Capacity Project	Alexandra Priebe, Louisiana Public Health Institute	No
9-337	Total Disruptions, Personal Trauma and PTSD symptomolgy in impacted Alabama adolescents post Deepwater Horizon oil spill.	Jennifer Langhinrichsen-Rohling, University of South Alabama	Yes
9-338	Assessing the exposure of benthic foraminifera to hydrocarbons by stable isotopic analysis	Lauren Reilly, University of South Florida	Yes
9-339	Integrating Mental and Behavioral Care into Schools and Clinics in Developing a System of Care and Promote Recovery and Resilience	Anne Ciccone, LSU Health Sciences Cente	No
9-340	Assessing Personalized Exposures of Importance: Paired Indoor/Outdoor Air Sampling and Seafood Analyses in Southeast Louisiana	Jessi Howard, Tulane University	Yes
9-341	Gulf Coast Health Alliance: health Risks related to the Macondo Spill (GC-HARMS) Study	Sharon Croisant, UTMB	No
9-342	Quality of Life in NE Gulf Coast Communities Two Years After the Gulf of Mexico Oil Spill	Lorien Baker, University of Maryland School of Medicine	No
9-343	Assessment of Petrogenic Polycyclic Aromatic Hydrocarbon Toxicity in Gulf Shellfish and Finfish	Dan Jackson, University of Texas Medical Branch	Yes
9-344	Were women vulnerable to social adversities also vulnerable to the oil spill?	Emily Harville, Tulane University	No
9-345	A systematic comprehensive training evaluation process for assessing impact and effectiveness of the Gulf oil spill health and safety training	Sue Ann Sarpy, Sarpy and Associates, LLC	No
9-346	Pre and Post-Deepwater Horizon (DWH) Oil Spill Exposure Patterns among Elementary School Children in Mobile County, Alabama	Meghan Tipre, University of Alabama at Birmingham	Yes
9-347	The West Florida Shelf Controversy	John Paul, USF	No
9-348	Does in ovo exposure to an endocrine disruptor, tributyltin (TBT), skew sex ratios in the American alligator (Alligator mississippiensis)?	Melissa Bernhard, College of Charleston	Yes
9-349	Assessment of Health Following the 2010 Gulf of Mexico Oil Spill in Two Coastal Communities: Mobile and Baldwin County, Alabama, 2010, 2011, 2012	Melissa Morrison, Centers for Disease Control and Prevention	No

#	Title	Presenter	Student
9-350	"The Policy Implications and the Stakeholders' Perspective of the Closure of Louisiana Territorial Sea Following the 2010 BP/ Deep Water Horizon Gulf Oil Spill".	Olalekan Ogunsakin, Tulane University	Yes
9-351	Differences and similarities between coastal communities in two Alabama counties: Comparison of community assessments conducted in 2010, 2011 and 2012	Melissa Morrison, Centers for Disease Control and Prevention	No
9-352	Disaster Health Research: Lessons Learned from the Gulf Spill and New Efforts to Address our National Needs	Aubrey Miller, National Institute of Environmental Health Sciences (NIEHS), National Institutes of Health	No
9-353	Building responder resilience and reducing mental health consequences during disasters through training	Joseph Hughes, HHS-NIH-NIEHS	No
9-354	Using Stem Cell Fate to Determine Potential Adverse Effects of Oil/ Dispersant Exposure: Cross-Species Crude Oil Obesogenicity Assays	Alexis Temkin, Medical University of South Carolina	Yes
9-355	Challenges in Recruiting and Retaining Participants in the Women and Their Children's Health (WaTCH) Study Cohort	Daniel Harrington, LSU School of Public Health	No
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10-356	Enhancing Remote Sensing Capabilities Of The Sargassum Early Advisory System (SEAS) Through The Use Of NASA EOS And Open Source GIS	Ross Reahard, NASA DEVELOP National Program	Yes
10-357	Surface Oil Dispersion During the Deepwater Horizon Blowout	Ian MacDonald, Florida State University	No
10-358	Basic tenets for coastal ocean ecosystems monitoring	Robert Weisberg, University of South Florida	No
10-359	Turbulent Mixing and Diel Vertical Migrations of Zooplankton in Relation to Potential Oil Spill Problems: Observations and Numerical Simulation	Cayla Dean, Nova Southeastern Univeristy	Yes
10-360	Bacterial community dynamics in oil polluted seafloor sediment (May 2010 - July 2011)	Tingting Yang, University of North Carolina	Yes
10-361	Graphene-metal oxide (TiO2, ZnO) nanocomposite for Organic Decontamination from Water	Srikanth Gunti, University Of South Florida	Yes
10-362	Key indicator species, Rangia cuneata, in the Mission-Aransas National Estuarine Research Reserve: a preliminary assessment of abundance and distribution	Maria Rodriguez, Texas A&M University-Corpus Christi	No
10-363	Patterns of Crustacean Zooplankton Abundance in the Northern Gulf of Mexico during Summer 2013	Timothy Lee, University of South Florida	Yes
10-364	<i>In situ</i> time series measurements of biogeochemical processes in the benthic boundary layer at GC600, Gulf of Mexico	Christopher Martens, UNC-Chapel Hill	No
10-365	Evolution of the SEAMAP reef fish video survey from traditional fisheries gears to a video based, multi-gear, ecosystem level sampling platform.	Matthew Campbell, NOAA Fisheries	No
10-366	Polarimetic Imaging of Surface Slopes and Slicks Over a Wide Range of Wind Speeds Including Spray	Brian Haus, University of Miami	No
10-367	Evaluating the scale of oil spill impacts on deepwater shipwrecks in the Gulf of Mexico: From microbiomes to macrostructures	Leila Hamdan, George Mason University	No
10-368	Teaching and Research in Environmental Crime & Related Courses in the Criminal Justice Curriculum: The Case of Gulf of Mexico Research Initiative and Criminal Justice Programs in Louisiana	Ekwuniru Nwokeji, Southern University at New Orleans	No
10-369	Oil Sedimentation Pathway: Marine Snow Distributions in the NE Gulf of Mexico, 2010-2013	Kendra Daly, University of South Florida	No
10-370	Implementation of a Towed Camera System Indexing Reef Fish Density: Applications to MPA Assessment	Sarah Grasty, University of South Florida	Yes

#	Title	Presenter	Student
10-371	Cold-water Coral Associated Benthos in the Gulf of Mexico Before And After The Deepwater Horizon Oil Spill	Amanda Demopoulos, US Geological Survey	No
10-372	Mapping Of Sedimentary Microbial Communities And Identification Of Bioindicators For Oil Degradation In Sediments Of The Northeastern Gulf Of Mexico	Xiaoxu Sun, Georgia Institute of Technology	Yes
10-373	Use of genetic tools to monitor populations of Paramuricea, a genus of deep-sea gorgonian corals impacted during the 2010 oil spill	Erik Cordes, Temple University	No
10-374	Gene expression and stress response of the flatback mud crab Eurypanopeus depressus exposed to crude oil from the Deepwater Horizon oil spill	Keith Crandall, George Washington University	No
10-375	Deep Sea Coral-Associated Bacterial Community Composition Analysis Using 16S rDNA	Richard Dannenberg, Penn State University	Yes
10-376	Coral injuries observed at Mesophotic Reef Communities following the Deepwater Horizon oil discharge.	Mauricio Silva, Florida State University	Yes
10-377	A Time Series Hydrographic Dataset for the Northeastern Gulf of Mexico	Sarah Tominack, University of West Florida	Yes
10-378	An Ecosystem Monitoring System in the Mississippi Bight	Stephan Howden, The University of Southern Mississippi	No
10-379	Undersea vehicles: Vital component of undersea ecosystems monitoring	Max Woolsey, National Institute for Undersea Science and Technology	No
10-380	Oil Spill in SAR Satellite Imagery	Alexander Soloviev, Nova Southeastern University Oceanographic Center	No
10-381	Better Access to Gulf Researchers, Resources, and Biodiversity Information for Improved Disaster Preparedness	Fabio Moretzsohn, Harte Research Institite, Texas A&M University-Corpus Christi	No
10-382	Framework for Adaptive and Dynamic Offshore Oil Spill Wireless Sensor Networks	Shikher Mishra, University of South Alabama	Yes
10-383	Building Capacity and Decision Support for Risk Assessment and Marine Biodiversity Conservation in the Gulf of Mexico	Fabio Moretzsohn, Harte Research Institute, Texas A&M University-Corpus Christi	No
10-384	Combining Aquarius And MODIS Measurements To Assess Nearshore Salinity Levels In The Northern Gulf Of Mexico	Shelby Barrett, NASA DEVELOP National Program	Yes
10-385	Preliminary predictive models of microbial community interactions during the Deepwater Horizon Oil Spill in the Gulf of Mexico (GoM) using Microbial Assemblage Prediction (MAP)	Nicole Scott, University of Chicago	No
10-386	Quantifying hydrocarbon emission and biodegradation rates with measurements of natural stable isotopes and current velocity	John Kessler, University of Rochester	No
10-387	Analysis of Bragg Scattering of Oil Types under Radar Microwaves	Oscar Garcia Pineda, Florida State University	No
10-388	Optimization of the oxygen concentration in a high pressure reactor for aerobic biodegradation of mineral oil	Ana Gabriela Valladares Juarez, Hamburg University of Technology	No
10-389	Analysis of meiofauna and sediment from the northern Gulf of Mexico continental shelf following the Deepwater Horizon Oil Spill	Ceil Martinec, Troy University	Yes
10-390	Hercules 252 Gas Blowout Rapid Response: Water Sample Estimated Oil Equivalents	Terry Wade, Texas A&M University	No
10-391	Distribution of Water Column Hydrocarbon from the Deepwater Horizon Oil Spill	Terry Wade, Texas A&M University	No
10-392	Building a comprehensive sample repository to track the long-term impacts of the Macondo Well oil spill: an opportunity to engage citizen scientists	Catherine Carmichael, Woods Hole Oceanographic Institution	Yes

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#	Title	Presenter	Student
10-393	Bacterial community dynamics in oil polluted seafloor sediment (May 2010 - July 2011)	Tingting Yang, UNC-Chapel Hill	Yes
10-394	Efficacy of data assimilation on numerical simulation of spilled oil drifting on the sea	Satoaki Tsutsukawa, Osaka University	Yes
10-395	Estimated Oil Equivalents in the Water Column three years after the Deepwater Horizon Oil Spill	Dawei Shi, Texas A&M University	Yes
10-396	Pre- and Post- Deepwater Horizon Spill Sediment Trap Study: A Geochemical Perspective	Nancy Prouty, US Geological Survey	No
10-397	Monitoring Deep-sea Benthos in Response to the Deepwater Horizon Blowout in the Gulf of Mexico	Paul Montagna, Texas A&M UnivCorpus Christi	No
10-398	Crossing trophic levels with ecosystem models: Data needs during evolution of DWH event	Jason Lenes, University of South Florida	No
10-399	Aerial Survey Validation of Satellite SAR Monitoring of Anthropogenic Hydrocarbon Discharges in the Gulf of Mexico	Samira Daneshgar Asl, Florida State University	Yes
10-400	Marine Oil Snow Sedimentation and Flocculent Accumulation (MOSSFA)	Uta Passow, UCSB	No
10-401	Overview of SEAMAP in the Gulf of Mexico	Jeff Rester, Gulf States Marine Fisheries Commission	No
10-402	Oil-derived marine aggregates - hot spots of polysaccharide degradation by specialized bacterial communities	Andreas Teske, University of North Carolina	No
10-403	Passive acoustic monitoring of sperm whales (<i>Physeter macrocephalus</i>) in the Gulf of Mexico: From detection to density estimation	Kaitlin Frasier, Scripps Institution of Oceanography	Yes



WEDNESDAY JANUARY 29

8:00a-3:45p	Check-in Open	Foyer
8:00a-3:45p	Exhibits Open	Foyer
8:00a-4:00p	Poster Hall Open	Main Ballroom (Convention Center)

Plenary Program Schedule

7:30a	Breakfast Available	Foyer
8:30a-10:30a	Plenary Panel "The Role of Academia in Environmental Disaster Response"	Bon Secour Bay
	Followed by audience Q&A	
10:30a-11:00a	Break	Foyer
11:00a-11:15a	Presentation of Student Awards, Dr. Robert Gagosian, Consortium for Ocean Leadership	Bon Secour Bay
	Plenary Session Report Outs	
11:15a-12:30p	Moderated by Dr. Margaret Leinen, <i>Scripps Institution of Oceanography</i>	Bon Secour Bay
12:30p-2:00p	Lunch	Moonlight Ballroom (Battle House Hotel)
2:00p-3:15p	Session Report Outs (continued)	Bon Secour Bay
2:45- 2:45-	Conference Wrap-Up	Ron Socour Roy
3.15p-3.45p	Dr. Margaret Leinen, Dr. Chuck Wilson	Boli Secoul Bay

Associated Meetings and Events

7:30a-2:00p	RESTORE Act Science Program Information Session	Commodore Suite (4th Floor)
4:00p-6:00p	C-MEDS/Metcalf Oil Spill Science Seminar for Journalists	Schooner

2014 Plenary Panel THE ROLE OF ACADEMIA IN OIL SPILL RESPONSE

Wednesday, January 29 8:30am-10:30am Bon Secour Ballroom

Panelists

ADM Thad Allen, *Booz Allen Hamilton/23rd Commandant of the US Coast Guard* Bernard Goldstein, M.D., *University of Pittsburgh* Jane Lubchenco, Ph.D., *Oregon State University/Former Administrator of NOAA* Laurence Madin, Ph.D., *Woods Hole Oceanographic Institution* Steven Murawski, Ph.D., *University of South Florida*

Moderator

Margaret Leinen, Ph.D., GoMRI Research Board & Director of Scripps Institution of Oceanography at UC San Diego

The 2014 Gulf of Mexico Oil Spill and Ecosystem Science Conference is pleased to welcome our distinguished panelists to offer their insights on the role of academia in disaster response with special interests in marine and coastal oil spills. The panelists will discuss how academia currently fill various advisory roles including those specified in the Oil Pollution Act, and the potential for assuming enhanced roles in future environmental disasters. The panel will then engage in an open discussion with the audience focusing on positive steps moving forward.



ADM Thad Allen

Admiral Thad Allen (United States Coast Guard, Retired) is a Senior Vice President at Booz Allen Hamilton, and provides thought leadership and client engagement for the Justice and Homeland Security business and also contributes to other initiatives in energy, defense and international markets. He retired from the United States Coast Guard after serving as the 23rd Commandant in June 2010. Prior senior leadership assignments included Chief of Staff of the Coast Guard, Atlantic Area Commander, Commander of the Seventh Coast Guard District (Southeast US and Caribbean Region), and Coast Guard Director of Resources.

In 2005 Allen was selected by President George W. Bush to lead the response to Hurricanes Katrina and Rita as the Principal Federal Official. In 2010 he was selected by President Obama to lead the response to the Deepwater Horizon oil spill as the National Incident Commander.

In 39 years of service in the Coast Guard Allen served in wide variety of operational assignments including commands at sea and ashore. He is a 1971 graduate of the Coast Guard Academy (BS in Management) and earned Masters Degrees at The George Washington University (Public Administration) and MIT Sloan School of Management (Management Science).

Allen is a Fellow in the National Academy of Public Administration and a member of the Council on Foreign Relations. He serves as a Director with the Coast Guard Foundation and the Partnership for Public Service. From 2010 to 2011 he served as a Senior Fellow at the RAND Corporation.

A native of Tucson, AZ, Allen now resides in Vienna, VA with his wife Pam. They have three grown children, Amanda, Meghan, and Lucas.



Bernard Goldstein, M.D.

Dr. Bernard Goldstein, former dean of the University of Pittsburgh Graduate School of Public Health, is an environmental toxicologist whose research interests have focused largely on the concept of biological markers in the field of risk assessment. Dr. Goldstein is currently Faculty Emeritus for the University of Pittsburgh Schools of the Health Sciences

He has published in the areas of blood toxicity, the formation of cancercausing substances (free radicals) following exposure to inhalants, various aspects of public health decision-making and global issues in environmental medicine.

Before coming to the University of Pittsburgh, Dr. Goldstein was professor and chairman of the department of environmental and community medicine at the University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School, where he established and directed the largest academic environmental and occupational health program in the United States/the Environmental and Occupational Health Sciences Institute.

He also has served as an officer with the U.S. Public Health Service and as assistant administrator for research and development at the U.S. Environmental Protection Agency.

Dr. Goldstein received his medical degree from New York University and undergraduate degree from the University of Wisconsin.



Jane Lubchenco, Ph.D.

Dr. Jane Lubchenco, Distinguished Professor at Oregon State University, is a marine ecologist with expertise in oceans, climate change, and interactions between the environment and human well-being. Nominated by President Obama as part of his 'Science Dream Team,' she served as the Under Secretary of Commerce for Oceans and Atmosphere and Administrator of the National Oceanic and Atmospheric Administration (NOAA) from 2009-2013. A Ph.D. in ecology from Harvard University, she was president of the American Association for Advancement of Science (AAAS) and is one of the "most highly cited" ecologists in the world with eight publications recognized as "Science Citation Classics." She is a member of the National Academy of Sciences and has received numerous awards including a MacArthur "genius" award, 19 honorary doctorates, the Heinz Award for the Environment, the Blue Planet Prize, and was named "2010 Newsmaker of the Year" by the journal *Nature*.



Laurence Madin, Ph.D.

Dr. Laurence P. Madin is the Executive Vice President and Director of Research, and Senior Scientist, at the Woods Hole Oceanographic Institution (WHOI) in Woods Hole, MA, USA. Madin received his A.B. degree from the University of California, Berkeley and his Ph.D. from UC Davis, and has been at WHOI since 1974.

His principal research interests are in the biology of oceanic and deepsea zooplankton and fishes. He has participated in over 70 research cruises, serving as Chief Scientist on half of them, and was among the first biologists to use SCUBA and submersibles for the in-situ study of the oceanic plankton.

As Director of Research since 2006, Madin oversees the science departments and related research Institutes and Centers at WHOI. He has been active in the development of new international and industry partnerships and in the formation of the Center for Marine Robotics.

He holds an adjunct appointment at the Monterey Bay Aquarium Research Institute, and is a member of AGU, ASLO, and Sigma Xi, and serves on several advisory and steering committees.



Steven A. Murawski, Ph.D.

Dr. Steven Murawski is a fishery biologist with 38 years of professional experience. He worked at NOAA for 35 years where he retired as the Director of Scientific Programs and Chief Science Advisor for the National Marine Fisheries Service before coming to the University of South Florida. Since coming to the Gulf of Mexico region he has been actively involved in assessing the environmental impacts of the Deepwater Horizon oil spill and its implications for fisheries in the Gulf of Mexico. Murawski serves as Principal Investigator for the Center for Integrated Modeling and Analysis of Gulf Ecosystems (C-IMAGE) funded through the Gulf of Mexico Research Initiative. In addition to research on oil spill impacts, he and his graduate students has an active program ongoing to assess the status of fishery stocks in the Gulf of Mexico, with particular emphasis on reef fish stocks. This includes a program to develop new technologies focusing on remote sensing applications for assessing reef fishes. He is involved in research on marine protected areas and in climate effects on fisheries. Dr. Murawski continues to be involved in international fisheries and marine science activities, recently serving a term as vice-president and current USA delegate to the International Council for the Exploration of the Seas (ICES), and external advisor to the United Nations Food and Agriculture's Ecosystem Approaches to Management program in Africa. Additionally, he was recently named by the National Academy of Sciences as a member of the US Committee for the International Institute for Applied Systems Analysis (IIASA) and the National Academy of Science's Ocean Studies Board. His Ph.D. in Wildlife and Fisheries Biology was conferred in 1984 from the University of Massachusetts-Amherst.

Dr. Murawski is currently serving as Professor and the St. Petersburg Partnership – Peter Betzer Endowed Chair of Biological Oceanography at the University of South Florida, College of Marine Science in St. Petersburg, FL.

ASSOCIATED MEETINGS AND EVENTS

(note: descriptions can be found on the conference website and the mobile app)

Advancing Deep Sea Science through Long-term Observatories and Development of In-Situ Technology and Instrumentation: A Tribute to Ray Highsmith

Sunday, January 26, 1:00-6:00pm Renaissance Hotel (Mobile Bay Ballroom II & III)

Near Field Modeling Sunday, January 26, 1:00-6:00pm Renaissance Hotel (Schooner)

Dispersants Session: What have we learned, and opportunities for improvement to better inform decision making relevant to dispersants and their use?

Sunday, January 26, 1:00-5:00pm Renaissance Hotel (Grand Bay Ballroom)

Hydrocarbon Chemical Analyses QAQC

Sunday, January 26, 5:00-6:00pm Renaissance Hotel (Grand Bay Ballroom)

C-MEDS/Metcalf Institute Oil Spill Science Seminar for Journalists

Monday, January 27, 5:30-7:00pm Tuesday, January 28, 4:00-6:00pm Wednesday, January 29, 4:00-6:00pm *Renaissance Hotel (Schooner)*

Marine Oil Snow Sedimentation & Flocculent Accumulation (MOSSFA) Town Hall meeting

Monday January 27, 6:30-8:30pm Battle House Hotel (Moonlight Ballroom)

Gulf Restoration Science Programs Town Hall

Tuesday, January 28, 6:00-8:00pm Renaissance Hotel (Mobile Bay Ballroom)

Gulf Coast Ecosystem Restoration Science, Observation, Monitoring and Technology Program (RESTORE Act Science Program) Information Session Wednesday, January 29, 7:30am-2:00pm Renaissance Hotel (Commodore Suite - 4th Floor)

STUDENT AWARDS

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The Gulf of Mexico University Research Collaborative (GOMURC) Board Member institutions provided travel awards to the following students:

Puspa Lal Adhikari, Louisiana State University Somiddho Bosu, Louisiana State University Shayla Duncan, Alabama State University Yanyan Gong, Auburn University Jennifer Granneman, University of South Florida Xianlong Hou, University of Texas at Austin Andew Margolin, University of Miami Phillip Pickett, University of Southern Mississippi Matthew Rodrigue, Louisiana State University Michelle Savolainen, Louisiana State University Mauricio Silva-Aguilera, Florida State University Ashley Stroman, Florida State University Yue Sun, Tulane University

Congratulations to the student awardees and thank you for presenting your research at the 2014 Gulf of Mexico Oil Spill and Ecosystem Science Conference!

Additionally, two students will be recognized, during Wednesday's plenary session, with the James D. Watkins Student Award for Excellence in Research for outstanding student for presentation and outstanding student poster. The James D. Watkins Student Award for Excellence in Research strives to recognize outstanding research in order to cultivate the next generation of ocean scientists and encourage excitement for presenting their work. Evaluation criteria include: scientific merit, research capability, design & style,

and knowledge of presenter. All student presenters, undergraduate, Master's and PhD graduate students, will be considered for these awards. Award recipients will receive \$500. All students are asked to attend the plenary session. Thank you to the award judges for their assistance in evaluating student presentations and posters and to the Consortium for Ocean Leadership for sponsoring this award!

