

# CARTHE

Consortium for Advanced Research on  
Transport of Hydrocarbon in the Environment

## All-Hands Meeting

November 8-9, 2012 Mayfair Hotel, 3000 Florida Avenue, Coconut Grove, Florida

## AGENDA

### Thursday, November 8, 2012

Room

7:30 – 8:30 **Registration and Buffet Breakfast**

Palm Terrace

#### Plenary Session

8:30 – 8:35

Welcome:

Tamay Özgökmen  
*University of Miami, RSMAS*

Crystal Ballroom

8:35 – 8:55

GoMRI Address:  
& Q&A

Chuck Wilson  
*GoMRI, Chief Science Officer*

8:55 – 9:15

#### **CARTHE Overview & Accomplishments**

Speaker:

Tamay Özgökmen  
*University of Miami, RSMAS*

Crystal Ballroom

#### Presentations

#### **Review and Results from 2012 GLAD Experiment**

Lead:

**Brian Haus**

Crystal Ballroom

9:15 – 9:30

i. Overview of GLAD:

Speaker: Brian Haus  
*University of Miami, RSMAS*

9:30 – 9:45

ii. GLAD Sampling Strategy:

Speaker: Bruce Lipphardt  
*University of Delaware*

9:45 – 10:10

iii. Dispersion Results:

Speaker: Andrew Poje  
*City University of New York*

10:10 – 10:20

iv. GLAD vs Coastal HF Radar Comparison:

Speaker: Matt Gough (*PhD student*)  
*University of Miami, RSMAS*

10:20 – 10:30

v. GLAD Turbulence Measurements:

Speaker: Darek Bogucki  
*TAMU - CC*

## AGENDA

**Thursday, November 8, 2012**

			<b>Room</b>
10:30 – 11:00	<b>Coffee Break</b>	<i>Refreshments provided (Students please hang posters in the Crystal Ballroom during AM break)</i>	Crystal Foyer
	<b>Plenary Session</b>		Crystal Ballroom
	<b>Presentations</b>		
	<b>Ocean Modeling for GLAD</b>		
	<b>Lead:</b>	<b>Gregg Jacobs</b>	
11:00 – 11:10	i. Overview of the Virtual Experiments (VE)	Speaker: Denny Kirwan, Jr. University of Delaware	
11:10 – 11:20	ii. Real-time Data Management for VE & GLAD	Speaker: Ed Ryan University of Miami, RSMAS	
11:20 – 11:30	iii. Summary of NRL Modeling for GLAD	Speaker: Gregg Jacobs NRL-SSC	
	<b>Transport Analysis for GLAD</b>		
	<b>Lead:</b>	<b>Bruce Lipphardt</b>	
11:30 – 11:40	i. Geodesic Theory	Speaker: Javier Beron-Vera University of Miami, RSMAS	
11:40 – 11:50	ii. Application of Geodesic Theory to GLAD	Speaker: Josefina Olascoaga University of Miami, RSMAS	
11:50 – 12:00	iii. Statistical Description of Dispersion during GLAD	Speaker: Angelique Haza University of Miami, RSMAS	
12:00 – 13:30	<b>Lunch (provided)</b>		Palm Terrace

### *Grand Lagrangian Deployment Experiment (GLAD)*

*GLAD is the largest upper ocean dispersion experiment ever conducted with the deployment of more than 300 custom-made drifters near the Deepwater Horizon site and the Louisiana coast.*





## AGENDA

Thursday, November 8, 2012

Room

Crystal Ballroom

### Plenary Session

#### Presentations

#### Atmospheric and Coupled Modeling for GLAD

Lead: **Shuyi Chen**

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| 13:30 – 13:45 | i. Observations and Coupled Model Forecasts from Calm Winds to Hurricane Isaac<br>Speaker: Shuyi Chen<br><i>University of Miami, RSMAS</i>              |
| 13:45 – 13:55 | ii. Weather Conditions and Forecasts<br>Speaker: Falko Judt ( <i>PhD student</i> )<br><i>University of Miami, RSMAS</i>                                 |
| 13:55 – 14:10 | iii. Winds, Waves, and Currents in Hurricane Isaac<br>Speaker: Milan Curcic ( <i>PhD student</i> )<br><i>University of Miami, RSMAS</i>                 |
| 14:10 – 14:20 | iv. Hurricane Isaac Surge Forecasting<br>Speaker: Clint Dawson<br><i>University of Texas</i>  |
| 14:20 – 14:30 | v. A new perspective on surface layer bulk transfer parameterization in coastal regions<br>Speaker: Ping Zhu<br><i>Florida International University</i> |

#### Uncertainty Analysis for GLAD

Lead: **Mohamed Iskandarani**

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|---------------|---|
| 14:30 – 14:40 | i. Uncertainty Analysis for GLAD<br>Speaker: Mohamed Iskandarani<br><i>University of Miami, RSMAS</i> |
| 14:40 – 14:50 | ii. Uncertainty Analysis for GoM<br>Speaker: Ashwanth Srinivasan                                      |

#### International Collaborations

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|---------------|--|
| 14:50 – 15:00 | Overview of the TOSCA Summer Experiment<br>Speaker: Annalisa Griffa<br><i>University of Miami, RSMAS</i> |
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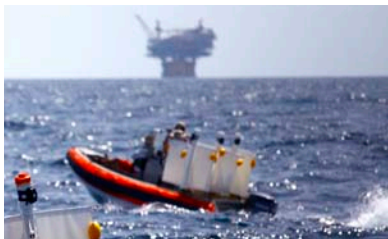
#### Data Management for GLAD and CARTHE

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| 15:00 – 15:15 | Data Management for GLAD, GRIDC Expectations and Software and Hardware Needs<br>Speaker: Bruce Lipphardt<br><i>University of Delaware</i> |
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## AGENDA

Thursday, November 8, 2012

		Room
15:15 – 16:15	<b>Coffee Break and Student Research Poster Session</b> <i>Refreshments in Crystal foyer</i> <i>Student Poster session in Crystal Ballroom</i>	Crystal Foyer & Ballroom
	<b>Plenary Session</b> <b>Progress in Process Modeling</b> <b>Lead: Bill Dewar</b>	Crystal Ballroom
16:15 – 16:30	i. Progress in Plume/Oil Modeling Speaker: Bill Dewar <i>Florida State University</i>	
16:30 – 16:40	ii. Progress in Plume Modeling Speaker: Guillaume Novelli <i>University of Miami, RSMAS</i>	
16:40 – 16:50	iii. Oil Transport Modeling Speaker: Juan Restrepo <i>University of Arizona</i>	
16:50 – 17:00	iv. Progress in Surface Multi-Phase Modeling Speaker: Alex Soloviev <i>Nova Southeastern University</i>	
17:00 – 17:10	v. Progress in Langmuir Circulation Modeling Speaker: GeChang Zha <i>University of Miami, RSMAS</i>	
17:10 – 18:00	<b>Brainstorming Discussion Group Structures for Day 2</b> Lead: Tamay Özgökmen <i>University of Miami, RSMAS</i>	
18:00 – 18:15	<b>Group Picture</b>	TBA
18:30 – 20:00	<b>Reception sponsored by:</b> <i>(refreshments provided)</i>	Palm Terrace



### **CARTHE Goal:**

*To accurately predict the fate of hydrocarbons released into the environment, thereby guiding risk management and response efforts to minimize damage to human health, the economy and the environment.*



## AGENDA

**Friday, November 9, 2012**

		<b>Room</b>
8:00 – 9:00	<b>Registration and Buffet Breakfast</b>	Palm Terrace
	<b>Plenary Session</b>	Crystal Ballroom
	<b>Presentations</b>	
	<b>Plans for 2013 Experimental Work</b>	
	<b>Lead: Ad Reniers</b>	
9:00 – 9:15	i. 2013 Coastal Dispersion Experiment Speaker: Ad Reniers <i>University of Miami, RSMAS</i>	
9:15 – 9:30	ii. Modeling for 2013 Experiment Speaker: Bert Jagers <i>Deltares</i>	
9:30 – 9:40	iii. CARTHE Bottom Sampling Cruise Speaker: Brad Rosenheim <i>Tulane University</i>	
9:40 – 9:50	<b>Deep-C Collaboration Opportunity: Hurricane Isaac</b> Speaker: Nick Shay <i>University of Miami, RSMAS</i>	
	<b>CARTHE Outreach</b>	
	<b>Lead: Arthur Mariano</b>	
9:50 – 10:05	i. Overview of 2012 Outreach Activities Speakers: Arthur Mariano Lisa Pitman <i>University of Miami, RSMAS</i>	
10:05 – 10:20	ii. 2013 Outreach and beyond Speaker: Julie Hollenbeck <i>University of Miami, RSMAS</i>	
10:20 – 10:30	<b>Breakout Group Objectives</b> Speaker: Tamay Özgökmen	
10:30 – 11:00	<b>Coffee Break</b> <i>Refreshments provided</i>	Crystal Foyer
11:00 – 12:00	<b>Breakout Groups Discussions</b>	Crystal Ballroom Kentia II Boardroom II <i>(subject to change)</i>
12:00 – 13:30	<b>Lunch</b> <i>(provided)</i>	Palm Terrace

## AGENDA

### Friday, November 9, 2012

		Room
13:30 – 14:15	<b>Breakout Group Discussions</b> ( <i>continued</i> )	Assigned Rooms
	<b>Plenary</b>	Crystal Ballroom
14:15 – 15:30	<b>Breakout Group Summaries/Task Assignments</b>	
15:30 – 16:00	<b>Coffee Break</b> <i>Refreshments provided</i>	Crystal Foyer
16:00 – 16:30	<b>Summary and Concluding Remarks</b> Speaker: <b>Tamay Özgökmen</b>	Crystal Ballroom

