

CARTHE

Consortium for Advanced Research on Transport of
Hydrocarbon in the Environment

All-Hands Meeting

October 2-4, 2013

Mayfair Hotel, 3000 Florida Avenue, Coconut Grove, Florida

Wednesday, October 3, 2013

8:00 – 9:00	Registration and Buffet Breakfast	Havana Room
9:00 – 9:15	Plenary Session Welcome and Updates: Tamay Özgökmen <i>University of Miami, RSMAS</i>	Crystal Ballroom
9:15 – 10:30	Presentations i. Tutorial: Oceanic Submesoscale Turbulence Speaker: Jim McWilliams <i>UCLA</i>	
10:30 – 11:00	Coffee Break	Crystal Foyer
11:00 – 11:20	ii. Progress in Near-Field Plume Modeling Speaker: Alex Fabregat <i>City University of New York</i>	Crystal Ballroom
11:20 – 11:40	iii. Progress in Near-Field Plume Modeling Speaker: Tamay Özgökmen <i>University of Miami, RSMAS</i>	
11:40 – 12:00	iv. Progress in Far-Field Plume Modeling Speaker: Bill Dewar <i>Florida State University</i>	
12:00 – 12:15	v. Multi-Phase Modeling Speaker: Ge-Cheng Zha <i>University of Miami, RSMAS</i>	
12:15 – 13:30	Lunch	Havana Room
13:30 – 14:30	vi. Tutorial: Nek5000 and Spectral Element Methods for Ocean Modeling Applications Speaker: Paul Fischer <i>Argonne National Laboratory</i>	Crystal Ballroom

AGENDA

Wednesday, October 2, 2013

14:30 – 14:50	vii. Gaps in Understanding Open Ocean Transport Speaker: Baylor Fox-Kemper <i>Brown University</i>	Crystal Ballroom
14:50 – 15:10	viii. Air-Sea Coupling/Transport Modeling Framework and Multi-Scale Downscaling Speaker: Shuyi Chen <i>University of Miami, RSMAS</i>	
15:10 – 15:30	ix. LES of Marine Boundary Layer in the Gulf of Mexico During Hercules Speaker: Ping Zhu <i>Florida State University</i>	
15:30 – 16:00	Coffee Break	Crystal Foyer
16:00 – 17:00	x. Tutorial: The Near-Surface Layer of the Ocean Speaker: Alexander Soloviev <i>Nova Southeastern University</i>	Crystal Ballroom
17:00 – 17:20	xi. Submesoscale and Mesoscale Impact on Particle Distribution in Gulf of Mexico Star Eddy Speaker: Angelique Haza <i>University of Miami, RSMAS</i>	
17:20 – 17:40	xii. Clustering on the Ocean Speaker: Josefina Olascoaga <i>University of Miami, RSMAS</i>	
17:40 – 18:00	xiii. Distributed Control of Robot Ensembles in Geophysical Flows Speaker: Ani Hsieh <i>Drexel University</i>	
18:30 – 19:30	Reception	Pool Area

Thursday, October 3, 2013

8:00 – 9:00	Registration and Buffet Breakfast	Havana Room
9:00 – 10:10	Presentations i. Tutorial: Surfzone Dynamics – Experiments and Modeling Speaker: Ad Reniers University of Miami, RSMAS	Crystal Ballroom
10:10 – 10:30	ii. Lagrangian Experiments in the Near-Surface Layer of the Ocean Speaker: Guillaume Novelli University of Miami, RSMAS	
10:30 – 11:00	Coffee Break	Crystal Foyer
11:00 – 11:20	iii. Recent Progress in Coupling Baroclinic Flow onto the Louisiana-Mississippi Shelf Speaker: Casey Dietrich <i>North Carolina State University</i>	Crystal Ballroom
11:20 – 11:40	iv. Physics and Parameterization of Surface Wave Processes in the Upper Ocean Speaker: Eric D’Asaro APL – UW	
11:40 – 12:00	v. Transport of the Submesoscales in the West Gulf of Mexico Processes in the Upper Ocean Speaker: Annalisa Bracco Georgia Institute of Technology	
12:00 – 12:20	vi. Projection of the Deepwater Horizon Spill in Sediments and the Water Column, and Update on the Progress in Recognizing Characteristics of and Change Caused by Hydrocarbons in the Environment Speaker: Joanna Kolasinski <i>Tulane University</i>	
12:20 – 13:30	Lunch	Havana Room
13:30 – 13:50	vii. CARTHE Oil Model Speaker: Juan Restrepo University of Arizona	Crystal Ballroom

Thursday, October 3, 2013

13:50 – 15:00	viii. Tutorial: Uncertainty Quantification Speaker: Mohamed Iskandarani <i>University of Miami, RSMAS</i>	
15:00 – 15:20	ix. Uncertainty Quantification for Extreme Events Speaker: Juan Restrepo <i>University of Arizona</i>	
15:20 – 15:40	Coffee Break	Crystal Foyer
16:40 – 16:00	x. Geographic Dispersion Patterns in GLAD Data Speaker: Helga Huntley <i>University of Delaware</i>	Crystal Ballroom
16:00– 16:20	xi. Observations of Upper Ocean Turbulence and Long Internal Waves During GLAD Speaker: Darek Bogucki <i>Texas A&M University</i>	
16:20 – 16:40	xii. Lagrangian-Based Estimates of the Statistical Properties of the Northern Gulf of Mexico Speaker: Arthur Mariano <i>University of Miami, RSMAS</i>	
16:40 – 17:00	xiii. Velocity Estimates from GLAD Clustering at Various Sites Speaker: Maristella Berta <i>CNR Lerici</i>	
17:00 – 17:20	xiv. Observations of Submesoscale Vertical Velocity Using Coordinated Aerial and Surface Platforms Speaker: Jeroen Molemaker <i>UCLA</i>	
17:20 – 17:30	xv. Surface Ocean Observations Using Unmanned Aerial Systems Speaker: Dan Carlson <i>CNR Lerici</i>	
17:30 – 18:30	Free discussions for collaborative work.	

Friday, October 4, 2013

8:00 – 9:00	Registration and Buffet Breakfast	Havana Room
9:00 – 10:30	SCOPE Planning Ad Reniers (University of Miami, RSMAS)	Crystal Ballroom
10:30 – 11:00	Coffee Break	
11:00 – 12:15	Brainstorming for Model Integration Panel: Clint Dawson (UT, Austin), Gregg Jacobs (NRL-SSC), Shuyi Chen (UM, RSMAS), Mohamed Iskandarani (UM, RSMAS) and Bill Dewar (FSU)	
12:15 – 13:30	Lunch	Havana Room
13:30 – 14:00	Future Plans	Crystal Ballroom
14:00 – 14:20	Outreach and Education Laura Bracken and Waterlust Team	
14:20 – 16:00	Free discussions for collaborative work.	

