All-Hands Meeting
April 29 – May 2
Marriott Hotel, 2501 North Ocean Drive, Hollywood Beach, Florida, USA

AGENDA

Tuesday, April 29, 2014

18:00 – 19:30  Science Café and Outreach Updates
               Laura Bracken and Sharon Chinchilla
               University of Miami, RSMAS
               Organic Brewery
               290 Broadwalk
               Hollywood, FL 33019

Wednesday, April 30, 2014

08:00 – 09:00  Registration and breakfast
               Salon B

09:00 – 09:10  Welcome and Updates:
               Tamay Ö zgökmen
               University of Miami, RSMAS
               Salon A

09:10 – 09:40  Presentations
               Overview of the Surfzone and Coastal Oil Pathways Experiment (SCOPE)
               Speaker: Jamie MacMahan
               Naval Postgraduate School

09:40 – 10:00  Dye Measurements during SCOPE
               Speaker: Jenna Brown (PhD student with Jamie MacMahan)
               Naval Postgraduate School

10:00 – 10:20  Drifter Studies during SCOPE
               Speaker: Kate Woodall (MS student with Jamie MacMahan)
               Naval Postgraduate School

10:20 – 10:40  Coffee Break
               Pre-Function Area

10:40 – 11:00  Observations of Coastal Fronts during SCOPE from Satellite Remote Sensing
               Speaker: John Hargrove
               CSTARS
Wednesday, April 30, 2014

11:00 – 11:20  Overview of Meteorological Measurements and Coupled Modeling during SCOPE  
Speaker: Falko Judt (PhD student with Shuyi Chen)  
University of Miami, RSMAS  
Salon A

11:20 – 11:40  Surface Layer Transport – What We Learned from SCOPE  
Speaker: Ping Zhu  
Florida International University

11:40 – 12:30  Tutorial 1: Air Sea Interaction – Importance of Small Scales  
Speaker: Brian Haus  
University of Miami, RSMAS

12:30 – 13:40  Lunch  
Salon B

13:40 – 14:00  Wind and Weather Conditions during SCOPE  
Speaker: Falko Judt (PhD student with Shuyi Chen)  
University of Miami, RSMAS  
Salon A

14:00 – 14:20  Coupled Model Results from SCOPE  
Speaker: Milan Curcic (PhD student with Shuyi Chen)  
University of Miami, RSMAS

14:20 – 14:40  Update on ADCIRC Coupling for Nearshore Simulations of Hurricane Isaac (2012) and SCOPE (2013)  
Speaker: Casey Dietrich  
North Carolina State University

14:40 – 15:00  Real-Time High Resolution Modeling for SCOPE  
Speaker: Kacey Edwards  
Naval Research Lab

15:00 – 15:20  Ocean Surface Deformation and Material Transport Upscaling  
Speaker: Gregg Jacobs  
Naval Research Lab

15:20 – 15:40  Coffee Break  
Pre-Function Area

15:40 – 16:00  Frontogenesis in the Presence of Stokes Forces  
Speaker: Baylor Fox-Kemper  
Brown University  
Salon A
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Wednesday, April 30, 2014

16:00 – 16:20  Multiphase Modeling of Oil Spill Fragmentation on the Sea Surface with and without Dispersant  Speaker: Alexander Soloviev  Nova Southeastern University  Salon A

16:20 – 17:10  Tutorial 2: Upper Ocean Turbulence  Speaker: Darek Bogucki  Texas A&M University, Corpus Christi

17:10 – 17:30  Progress in High-Resolution Sea Surface Observation from the GLAD Experiment  Speaker: Nathan Laxague (PhD student with Brian Haus)  University of Miami, RSMAS

17:30 – 17:45  PROJETO AZUL: Drifters, Gliders and Data Assimilation in Brazil  Speaker: Francisco dos Santos  Prooceano

17:45 – 18:00  Biogeochemically Tracing Deep Exchanges between the Intra-American Seas  Speaker: Andrew Margolin (PhD student with Dennis Hansell)  University of Miami, RSMAS

19:00 – 20:00  Reception  Outdoor Area

Aerial image of a dye release during SCOPE

Photo Credit: Patrick Rynne
Thursday, May 1, 2014

08:00 – 09:00  Breakfast  Salon B

9:00 – 09:30  Novel Observational Platforms for Rapidly-Evolving Submesoscales
Speaker: Jeroen Molemaker and Dan Carlson
UCLA, CNR-ISMAR (Italy)

09:30 – 09:50  Progress in CARTHE Drifter Development and Experiments for Near-Surface Transport
Speaker: Guillaume Novelli
(Postdoctoral fellow with Tamay Özgökmen)
University of Miami, RSMAS

09:50 – 10:10  Modeling Dispersion form Drifters and Tracers in the Upper Ocean
Speaker: Jean Mensa (PhD student with Tamay Özgökmen)
University of Miami, RSMAS

10:10 – 10:30  DNA Analysis of Surfactant Associated Bacteria in the Sea Surface Microlayer: Case Studies in the Straits of Florida and the Gulf of Mexico
Speaker: Bryan Hamilton (MS student with Alex Soloviev)
Nova Southeastern University

10:30 – 10:50  Coffee Break  Pre-Function Area

10:50 – 11:40  Tutorial 3: Lagrangian Data Analysis – Methods and Applications
Speaker: Annalisa Griffa
CNR, Italy

11:40 – 12:00  Instabilities and 3D Lagrangian Transport in Idealized Ocean Eddies
Speaker: Peng Wang (PhD student with Tamay Özgökmen)
University of Miami, RSMAS

12:00 – 12:30  CARTHE Data Management Plans for 2014
Speaker: Bruce Lipphardt
University of Delaware

12:30 – 14:00  Lunch  Salon B

14:00 – 14:20  How does the Mississippi River Affect the Oil Plume?
Speaker: Brad Rosenheim
University of South Florida
Thursday, May 1, 2014

AGENDA

14:20 – 14:50  Progress in CARTHE Near-Field Multi-Phase Plume Modeling
   Speaker: Alex Fabregat (Postdoctoral fellow with Andrew Poje)
   City University of New York

14:50 – 15:10  Another Look at Oil Plume Modeling
   Speaker: Ashley Stroman (PhD student with William Dewar)
   Florida State University

15:10 – 15:30  Diel Vertical Migrations of Zooplankton and Turbulent Mixing:
   Observations and Numerical Simulations
   Speaker: Cayla Dean (MS student with Alex Soloviev)
   Nova Southeastern University

15:30 – 15:50  Coffee Break
   Pre-Function Area

15:50 – 16:40  Tutorial 4: A Primer on Blending Data and Models – A Bayesian Perspective
   Speaker: Juan Restrepo
   University of Arizona

16:40 – 17:00  Toward Efficient Parameterization of Oil Transport from First Principles
   Speaker: Shankar Venkataramani
   University of Arizona

17:00 – 17:30  Quantifying the Impact of Droplet Size and Sub-Grid Scale Parameter Uncertainties on a Lagrangian Oil-Fate Model
   Speaker: Rafael Gonçalves (PhD student with Mohamed Iskandarani)
   University of Miami, RSMAS

17:30 – 17:40  Propagating Parametric Uncertainties Through an Integral Plume Model Using a Non-Intrusive Polynomial Chaos Method
   Speaker: Shitao Wang (PhD student with Mohamed Iskandarani)
   University of Miami, RSMAS

17:40 – 18:00  Inertial Currents in the Northeastern Gulf of Mexico during the GLAD Experiment
   Speaker: Matt Gough (PhD student with Ad Reniers)
   University of Miami, RSMAS

17:40 – 18:00  The Four-dimensional variational data assimilation for the Navy coastal ocean model: application to GLAD data and satellite SSH in the Gulf of Mexico.
   Speakers: Hans Ngodock and Matthew Carrier
   NRL, Stennis Space Center
# AGENDA

**Friday, May 2, 2014**

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<th>Time</th>
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<td>07:30 – 08:30</td>
<td>Breakfast</td>
<td>Salon B</td>
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Roland Brouwer and Conor Smith watching the first lift off of one of the drones used in SCOPE.

Consortium for Advanced Research on Transport of Hydrocarbon in the Environment
www.CARTHE.org / www.facebook.com/carthe.gomri