

Monday, October 19, 2015

08:00 - 09:00	Registration and Buffet Breakfast	Pre-Function Area
09:00 – 09:05	Plenary Session Introductions Tamay Özgökmen, <i>University of Miami - RSMAS</i>	Grand Ballroom (Center)
09:05 – 09:10	Chuck Wilson Chief Scientific Officer, <i>GoMRI</i>	
	Session on Theory and Modeling for LASER, I	
09:10 - 09:20	Overview of the LA grangian S ubmesoscale E xpe R iment - LASER Tamay Özgökmen, <i>University of Miami - RSMAS</i>	
09:20 – 9:40	Turbulent thermal wind, secondary circulation, frontogenesis and frontal arrest. Jim McWilliams, <i>University of California – Los Angeles</i>	
09:40 – 10:00	Are we doomed by unresolved flows, or what time and space scales of kinematic properties are expected to be resolved by drifters? Gregg Jacobs, NRL-Stennis Space Center	
10:00 – 10:20	Submesoscale geography and phenomenology in the northern Gulf of Mexico. Roy Barkan, <i>University of California – Los Angeles</i>	
10:20 - 10:40	Coffee Break	



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	Session on Theory and Modeling for LASER, II	
10:40 - 11:00	Lagrangian implications. Annalisa Bracco, <i>Georgia Tech</i>	Grand Ballroom (Center)
11:00 – 11:20	Surface Lagrangian parametrization for submesoscale flows. Angelique Haza, University of Miami - RSMAS	
11:20 - 11:40	Modelling submesoscale dynamics: a new parametrization for symmetrical instability. Scott Bachman, <i>Cambridge University</i>	
11:40 – 12:00	Anisotropy and inhomogeneity in clustering and dispersion. Helga Huntley, <i>University of Delaware</i>	
12:00 – 12:20	Atmospheric forcing in the GoM from seasonal to diurnal time scales. Falko Judt, <i>University of Miami - RSMAS</i>	
12:20 – 13:20	Lunch	Pre-Function Area
	Session on Theory and Modeling for LASER, III	
13:20 - 13:40	Real-time coupled atmosphere-wave-ocean model forecasts for LASER. Shuyi Chen, <i>University of Miami - RSMAS</i>	Grand Ballroom (Center)
13:40 - 14:00	Sensitivity analysis of surface divergence and surface vorticity in the northern GoM. Has Ngodock, <i>Naval Research Lab-Stennis</i>	
14:00 – 14:20	Stokes forces affect frontogenesis. Baylor Fox-Kemper, <i>Brown University</i>	



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14:20 – 14:40	Material Transport in a wind forced convective mixed layer. Jean Mensa, <i>Yale University</i>	Grand Ballroom (Center)
14:40 – 15:00	Fronts, cyclones and internal waves – What did GLAD actually see? Eric D'Asaro, <i>University of Washington</i>	
15:00 – 15:20	Langmuir turbulence and the response of buoyant and surface trajectories. Ramsey Harcourt, <i>University of Washington</i>	
15:20 – 15:40	Coffee Break	Pre-Function Area
	Session on Theory and Modeling for LASER, IV	
15:40 – 16:00	Progress towards characterization of Langmuir turbulence in shallow costal shelves under surface heat fluxes and tidal forcing. Andres Tejada-Martinez, <i>University of South Florida</i>	Grand Ballroom (Center)
16:00 – 16:20	Drifter shape dynamics from triangular modules launched in GLAD. Maristella Berta, CNR-ISMAR	
16:20 – 16:40	Sensitivity of storm surge predictions to meteorological forcing for hurricane Isaac (2012). Casey Dietrich, North Carolina State University	
16:40 – 17:00	Air-sea interaction at large turbulent eddy scales. Ping Zhu, Florida International University	
17:00 – 17:20	Quantifying initial and wind forcing uncertainties in the GoM. Mohamed Iskandarani, <i>University of Miami - RSMAS</i>	
	Session on Oil and Plume Dynamics, I	
17:20 – 17:40	Surface dynamics of fresh and weathered oil in the presence of dispersants: laboratory experiment and numerical simulation. Alexander Soloviev, Nova Southeastern University	



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08:00 - 08:40	Breakfast	Pre-Function Area
	Session on Oil and Plume Dynamics, II	
08:40 - 09:00	Recent progress on plume modeling. Bill Dewar, Florida State University	Grand Ballroom (Center)
09:00 – 9:20	Plumes in a rotating environment Paul Linden, Cambridge University	
9:20 – 9:40	Rotation effects on plumes in stratified environments Alex Fabregat, City University of New York	
9:40 – 10:00	Prediction of the oil droplet size distribution from blowouts Michel Boufadel, New Jersey Institute of Technology	
10:00 - 10:20	Coffee Break	Pre-Function Area
	Session on Oil and Plume Dynamics, III	
10:20 - 10:40	Impact of dispersant and sea state on the formation of oil droplets using the VDROP model: Guidelines for the selection of the optimal dispersant to oil ratio. Mohamed Iskandarani, <i>University of Miami – RSMAS</i>	Grand Ballroom (Center)
10:40 - 11:00	Propagation of uncertainty and sensitivity analysis in an integral oil-gas plume model. Shitao Wang, <i>University of Miami – RSMAS</i>	
11:00 – 11:20	Dynamics of turbulent plumes with mixed buoyancy sources in thermally stratified environments. Alex Fabregat, City University of New York	
11:20 – 11:40	Quantifying uncertainty in an oil-fate model using a polynomial chaos surrogate. Rafael Gonçalves, <i>University of Miami – RSMAS</i>	



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11:40 – 12:00	Biodegradation of oil buried within the GoM shoreline sediments. Michel Boufadel, New Jersey Institute of Technology	Grand Ballroom (Center)
12:00 - 13:00	Lunch	Pre-Function Area
	Session on Observational Platforms for LASER	
13:00 – 13:20	LASER biodegradable surface drifter update, part 1: design and manufacturing. Cedric Guigand, <i>University of Miami – RSMAS</i>	Grand Ballroom (Center)
13:20 – 13:40	LASER biodegradable surface drifter update, part 2: laboratory and field behavior characterization. Guillaume Novelli, <i>University of Miami – RSMAS</i>	
13:40 – 14:00	Aerostat progress report. Dan Carlson, Florida State University	
14:00 – 14:20	Air-sea flux and surface roughness measurements during LASER. Brian Haus, <i>University of Miami – RSMAS</i>	
14:20 – 14:40	Airborne and wave glider measurements of upper ocean and air-sea interaction processes. Ken Melville, <i>Scripps Institute of Oceanography</i>	
14:40 – 15:00	AirSWOT update Ernesto Rodriguez, JPL/NASA	
15:00 – 15:20	Coffee Break	Pre-Function Area
15:20 – 15:40	Overview of LASER Phase-I Andrew Poje, City University of New York	Grand Ballroom (Center)



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15:40 – 16:00	Overview of LASER Phase-II Jeroen Molemaker, <i>UCLA</i>	Grand Ballroom (Center)
16:00 – 16:20	Overview of LASER Phase-III Baylor Fox-Kemper, <i>Brown University</i>	
16:20 – 18:00	Breakout group discussions, I - LASER: moderated by Eric D'Asaro - Oil and plume group: moderated by Bill Dewar	Grand Ballrooms (East, Center, West)

Wednesday, October 21, 2015

08:00 - 08:30	Breakfast	Pre-Function Area
	Session on Working Groups for LASER, II	
08:30 - 09:40	Breakout group discussions, II	Grand Ballrooms (East, Center, West)
09:40 – 10:10	LASER discussion summary and plans. Eric D'Asaro, <i>University of Washington</i>	(East, Center, West)
10:10 - 10:20	Oil and plume group discussion summary and plans. Bill Dewar, Florida State University	
10:20 - 10:40	Coffee Break	Pre-Function Area
	Session on Outlook for SOPYS: Coastal Studies	
10:40 - 11:00	ADCP data analysis from SCOPE. Mathias Roth, Naval Postgraduate School	Grand Ballroom (Center)
11:00 – 11:20	Recent enhancements in the three-dimensional baroclinic ADvanced CIRCulation (AD-CIRC) model. Arash Fathi, <i>University of Texas, Austin</i>	



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11:20 - 11:40	Meteotsunamis in the northern and eastern Gulf of Mexico. Arnoldo Valle-Levinson, <i>University of Florida</i>	Grand Ballroom (Center)
11:40 - 12:00	Effect of Stokes drift on coastal circulation from SCOPE. Milan Curcic, <i>University of Miami – RSMAS</i>	
12:00 – 12:20	Inertial oscillations in the GoM in June 2010 with HF radar. Matt Gough, <i>University of Miami – RSMAS</i>	
12:20 - 13:30	Lunch	Pre-Function Area
	Session on Miscellaneous Items	
13:30 – 13:45	CARTHE-I,II Data Management Helga Huntley, <i>University of Delaware</i>	Grand Ballroom (Center)
13:45 – 14:00	MURI 3D+1 collaborative opportunities. Larry Pratt, WHOI	
14:00 – 14:20	Freshwater lenses, double diffusion, and cabbeling in the near- surface layer of the ocean. Cayla Dean, <i>Nova Southeastern University</i>	
14:20 – 14:40	Information driven source seeking in 3D turbulent fields Alex Fabregat, City University of New York	
14:40 – 15:00	Other business? Tamay Özgökmen, <i>University of Miami – RSMAS</i>	
15:00 – 15:20	Coffee Break	Pre-Function Area
15:20 –16:30	Free brainstorming session.	Grand Ballroom (Center)