







The First Conference on Oceanography in the Bay of Bengal

-In conjunction with the ASIRI Initiative-

November 28-29, 2012 Hotel Taj Samudra Colombo, Sri Lanka

Sponsors: Office of Naval Research (USA) and Office of Naval Research Global (Tokyo)

Organizers: National Aquatic Resources
Research Agency (Sri Lanka) and University of
Notre Dame (USA)

PROGRAM DAY 1 (28th November 2012)

TIME	TITLE
8:00 a.m.	Registration
8:30 a.m.	Arrival of Chief Guest
8:35 a.m.	Lighting of oil lamp
8:40 a.m.	National Anthem
8:45 a.m.	Welcome speech: Dr. S.G. Smarasundara, Chairman, NARA
8:50 a.m.	Keynote address: Dr. Teresa Paluszkiewicz, Program Director, Office of Naval Research
9:20 a.m.	Address by the Chief Guest: Hon. Dr. Rajitha Senarathne, Minister of Fisheries and Aquatic Resources Development, Government of Sri Lanka
9:30 a.m.	Vote of thanks
9:35 – 10:20	Poster session and Ice Breaker
10.20-10.50	Refreshments

Session – I Chairperson: H.J.S. Fernando

10:50 a.m	Introduction to Physical Oceanography around Sri Lanka
(20 min)	*K. Arulananthan
11:10 a.m.	Path Ways of Bay of Bengal Water and Implications to Oceanography around Sri Lanka
	*Hemantha Wijesekera, Andrew Quaid, William Teague, Ewa Jarosz, and Tommy Jensen
11:25 a.m.	Skill Assessment of Intra-Seasonal Rainfall Predictions for Sri Lanka
11.23 4	*Lareef Zubair and Prabodha Agalawatte
	Air-Sea Flux Divergence: Examples of the Role of Subsurface Diapycnal Mixing in
11:40 a.m.	Modifying Sea Surface Temperature and Salinity
	*Jim Moum & Emily Shroyer
11.55 a.m.	Joint US-Sri Lanka Research on Internal Waves and Mixing, with Emphasis on the East
	Indian Coastal Current off Sri Lanka
	*Iossif Lozovatsky, *H.J.S. Fernando, S.U.P. Jinadasa and K. Arulananthan
12:10 p.m.	Lunch

Session – II Chairperson: Hemantha Wijesekera

12.40	Characterization of bio-physical features in Thalawila fishery ground, Northwestern coast of
13:40 p.m.	Sri Lanka
	*H. B. Jayasiri, K. Arulananthan and S. U. P. Jinadasa
13:55 p.m.	Measurement and Modeling of Turbulent Processes in the Southern Bay of Bengal
13.33 p.m.	*Louis St. Laurent and Harper Simmons
14:10 p.m.	Transport and Lateral Mixing around the Sri Lanka Dome
	*Eric A. D'Asaro
14:25 p.m.	Lateral Advection, Vertical Mixing, and the Prediction of the Indian Monsoon
	*Robert Pinkel
14:40 p.m.	Improving marine mammal predictability through understanding of oceanic processes
	around Sri Lanka and South India in the southwest Bay of Bengal
	*Howard Martenstyn
14:55 p.m.	Passive Acoustic Monitoring of Marine Mammals using Seaglider TM
	*Bogue, N. M., Luby, J. C., Mellinger, D., Klinck, H., Shilling, G. B.
15:10 р.т.	Refreshments and Poster Session

Session – III Chairperson: K. Arulananthan

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15:30 p.m.	Near Surface Circulation off Sri-Lanka from Surface Drifters
13.30 p.m.	*Luca R. Centurioni
15:45 p.m.	Air-Sea Interaction Observations from a Drifting Air-Sea Interaction
	Spar Buoy in the Northern Indian Ocean
	*Hans C. Graber
16:00 p.m.	Shallow upper-ocean stratification and air-sea interaction in the Bay of Bengal
	*J. Thomas Farrar and Robert A. Weller
	Basin-scale high-resolution modeling of the Bay of Bengal freshwater plume
16:15 p.m.	*F. Durand, R. Benshila, S. Masson, R. Bourdalle-Badie, C. de Boyer Montégut, F.
	Papa1 et G. Madec
16:30 p.m.	Coastal and Open Ocean Sub-mesoscale Process Studies for ASIRI-EBOB
10.30 p.III.	*Amit Tandon and Amala Mahadevan
16:45 p.m.	Emerging Sensor Technologies for Science Investigations in the Bay of Bengal
10:43 p.iii.	*Scott Katz
17:00 p.m.	From the Arabian Sea to the Bay of Bengal: Upper Ocean Response to Monsoon Forcing
	and Prospects for Autonomous Observing
	*Craig M. Lee

POSTER SESSION

100	SIER SESSION
1	Sea grass Thalassia hemperichii as a biofilter for selected heavy metals (Cu, Pb) in coastal environment
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	*T.G.I.P Amaranayaka, H. B. Asanthi and R.G.A. Iroshini
2	Existing coastal zone vegetation and expected coastal inundation areas in Jaffna district
	*K. Sobana and A. Nanthakumaran
3	Dissolved Organic Carbon Dynamics and Microbial Activity in tropical and sub-tropical Coral
	Reefs
	*Fairoz M.F.M., Yoshimi Suzuki and Forest Rohwer
4	Meteorology and Predictability of Tropical Storm ARB-04 in the Equatorial Indian Ocean during
	November 2011
	*Lareef Zubair, Zeenas Yahiya, Prabodha Agalawatte and Dumindu Herath
	Occurrence of polycyclic aromatic hydrocarbons (PAHs) in inter-tidal sediment of Mumbai coast,
5	India
	*H. B. Jayasiri, C. S. Purushothaman, A. Vennila, G. Venkateshwarlu
6	Relevance of the Ocean wave energy for energy crisis in Sri-Lanka
	*Tennakoon, T.K.D
7	Lateral Mixing around Obstacles in Coastal Flows
	*Karan Venayagamoorthy
	History of the internal wave generation in the Bay of Bengal
8	*S.U.P Jinadasa ¹ , K.P.P Pathirana ³ , Iossif Lozovatsky ² , H.J.S. Fernando ²

PROGRAM DAY 2 (29th November 2012)

8:15 a.m.	Overview of Planning Session: Dr. Terri Paluszkiewicz		
	 Topics to discuss: Collaborative research questions: outstanding science questions of interest to collaborators; Collaboration structure: what topics; structure of partnership; Sri Lanka needs and sensitivities; Program planning: study area, type of observations (within EEZ and outside) data sharing policy and agreements, training requirements, ports and ships, logistical support. 		
9:00 a.m.	Discussion Session 1: Topic 1 Leader and Scribe: Dr. St. Laurent and S.U.P. Jinadasa / Simmons		
10:30 a.m.	Break-refreshments		
11:00 a.m.	Discussion Session 2: Topic 2 Leader and Scribe: Professor Fernando / Katz		
12:30 p.m. I	12:30 p.m. Lunch		
14:00 p.m.	Discussion Session 3: Topic 3 Leader and Scribe: Dr. Hemantha Wijesekera and Lee / Quaid		
15:30 p.m.	Break		
15:45 p.m.	Summary of Next Steps and Open Discussion: Dr. Teresa Paluszkiewicz		
17:15 p.m.	Conclusion of Meeting		