

Brazilian Symposium on Water Waves
Federal University of Rio de Janeiro
March 14-16, 2016

Sponsors: CAPES, US Office of Naval Research Global (ONRG), Ambidados, CNPq, Hidromares, Nortek

Program, oral presentations

Day 1, Monday

9:00-9:30		Opening	
Session 1	Fluid Mechanics of Waves	<u>Chair: Alex Babanin</u>	
9:30-10:00	invited	Lev Shemer	Characterization of wave field evolution in a wind-wave tank under steady and unsteady wind forcing
10:00-10:20		Jason Monty, J. H. Lee, A. Toffoli, A. Albarello, J. Elsnab and A. Babanin	Laboratory studies of energy dissipation under breaking waves
10:20-10:40		Karl Burr	Wave mode conversion and reflection in the interaction of linear water waves with variable bathymetry
10:40-11:00		Horst Punzmann, Nicolas Francois, Hua Xia and Michael Shats	Flow generated by surfaces waves

Coffee break

Session 2	Ocean Wave Dynamics	<u>Chair: Mark Donelan</u>	
11:30-12:00	invited	Leandro Farina	Local dimensionality of ocean waves
12:00-12:20		Pedro Veras Guimaraes, Yves Perignon, Fabrice Ardhuin and Charles Peureux	
12:20-12:40		Fabien Leckler, Pierre Ferrant	Stereo video observations of short waves breaking modulated by longer waves
12:40-1:00		Andres Salazar, Jesús Portilla and Luigi Cavaleri	On the behavior of wave systems in the Eastern Equatorial Pacific under ENSO regime
		Rodrigo Lisboa, Paulo R. F. Teixeira	Numerical simulation of Wave Propagation at Cassino Beach (South of Brazil)

Lunch

Session 3	Nonlinear Wave Dynamics	<u>Chair: Carlos Eduardo Parente</u>	
2:30-3:00	invited	Takuji Waseda	Resonant interaction of surface gravity waves under influence of external forcing
3:00-3:20		Sergei Annenkov, Victor Shrira	Modelling the impact of fast wind changes on wind waves with the generalized kinetic equation
3:20-3:40		C.A.D. Lentini, J. M. Magalhaes, J. C. B. da Silva and J. A. Lorenzzetti	Internal Solitary Waves off the Amazon River Mouth: coherence crestlengths and generation mechanism
3:40-4:00		Sonia Ponce de Leon, F. Dias	“Sensitivity of a spectral wave model to the nonlinear interactions”.

Coffee break

Session 4	Extreme Waves	<u>Chair: Takuji Waseda</u>	
4:30-5:00	invited	Mark Donelan	Unmasking the Rogue – The Making of the Andrea Wave
5:00-5:20		F. Dentale, F. Reale, R. Tomasicchio and E.Pugliese Carratelli	Sampling Error in the Estimation of Significant Wave Height Extreme Values from Bouy Data
5:20-5:40		Bardur Niclasen	Assessing the risk of overtopping waves by lessons learned in time
5:40-6:00		Ricardo Fabbri	Image-based fluid modelling

Day Close

Day 2, Tuesday

Session 5	Long Waves	<u>Chair: Leandro Farina</u>	
9:00-9:30	invited	Eloi Melo	Non-tidal coastal sea level variation along Southeastern South America – Progress Report
9:30-9:50		Ilson da Silveira, César Rocha, Tiago Biló, André Palóczy and Glenn Flierl	Brazil Current Instability Waves Off Southeast Brazil
9:50-10:10		Paulo Polito	Spectrum of Wind Driven Rossby Waves on a Non Linear QG Model

10:10-10:30		Afonso de Moraes Paiva, Guilherme Nogueira Mill, Vladimir Santos da Costa, Victor Bastos Daher, Simone Silva Barem Camargo and João Bosco Rodrigues Alvarenga	The generation of internal tides at the VitóriaTrindade
<i>Coffee break</i>			
Session 6 11:00-11:30 invited	Wave Spectra	<i>Chair: Lev Shemer</i> Carlos Eduardo Parente, H.P. Pereira	Daat - New Technique for Ocean-Wave Directional Analysis
11:30-11:50		Henrique Pereira, Vitor Lopes; Nelson Violante; Uggo F. Pinho; Carlos Eduardo Parente; Izabel C. M. Nogueira; Fabio Nascimento and Alexander V. Babanin	Observation of PNBOIA's Metocean Buoys Deployed in Southern Coast of Brazil
11:50-12:10 12:10-12:30 <i>Lunch</i>		Jesús Portilla-Yandún, Luigi Cavaleri Rafael Guedes, , Karin R. Bryan and Giovanni Coco	Wave spectra partitioning and long term statistical distribution Wave Reflection and Swash Motions on a Low-Sloping Beach
Session 7 2:00-2:30 invited 2:30-2:50 2:50-3:10 3:10-3:30		<i>Chair: Eloi Melo</i> Paco Ocampo-Torres, P. Osuna and A. O. Hernández Henrique Rapizo, Alexander Babanin, David Provis and Erick Rogers Rodrigo Alonso , Sebastián Solari George Kallos, G. Galanis, C. Kalogeri, P. Patlakas, C. Stathopoulos and A. Liakatas	Laboratory study of non-breaking surface wave induced turbulence Current-Induced Dissipation in Spectral Wave Models Automatic calibration of the parameters and inputs of a coastal wave model with an evolutionary Bayesian method. The European offshore wind and wave energy resource analysis – Combined exploitation - Analysis of extremes
<i>Coffee break</i>			
Session 8 4:00-4:30 invited 4:30-4:50 4:50-5:10 5:10-5:30	Ocean Engineering	<i>Chair: Paco Ocampo-Torres</i> Antonio Carlos Fernandes Milad Shadman, Segan Estefan Rafael Passos, Antonio Carlos Fernandes and Ramon Romankevicius Felipe Sprovieri, Elirio Toldo Jr.	Experimental Facilities in the Laboratory of Waves and Currents Geometry optimization of a wave energy point absorber for the Rio de Janeiro coast Design and Construction of an Active Wave Absorber in a Wave Channel Wave Power Potential in Southern Brazil
<i>Conference dinner</i>			
Day 3, Wednesday			
Session 9 9:00-9:30 9:30-9:50 9:50-10:10 10:10-10:30	Measurements and Observations	<i>Chair: Antonio Carlos Fernandes</i> Nelson Violante-Carvalho Victor Avila Fabio Nascimento, Henrique P. P. Pereira, Tobias Ferreira and Marlon Santos; Bruno Saliba Marcello Passaro, Paolo Cipollini and Luciana Fenoglio-Marc	Wave Diffreaction around Islands from ERS-2 SAR Images The Optical Wavemeter
<i>Coffee break</i>		The State of the Art, in Brazil, in Wave Measurement Using Buoy Systems "Measuring Coastal Significant Wave Height from Radar Altimetry with ALES Retracker"	
Session 10 11:00-11:30 11:30-11:50 11:50-12:10 12:10-12:30	Wave Climate	<i>Nelson Violante-Carvalho</i> Alex Babanin Felipe Sprovieri, Elirio Toldo Jr C. Dalinghaus, Alveirinho Dias, M. González, P. Gomes da Silva and A.H.F. Klein, André Lima Torres Mendes	Wind-Generated Waves - Interface Between the Ocean and Atmosphere Reconstruction and Analysis of Wave Climate in Southern Brazil Wave climate variability and trends in front of Santa Catarina island, south of Brazil, over six decades (1948-2008) and its relationship with different climate indices Development of a Brazilian Wave Buoy
<i>Conference Close</i> Visit to Lab Oceano (limited numbers)			

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Program, poster presentations

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| 1 Douglas Nemes (<i>long waves</i>) | Study of Gravity Waves and Infragravity Band Spectrum on a Complex Intermediate Beach System |
| 2 Douglas Nemes (<i>wave dynamics</i>) | Wave Breaking Parameters on Beach Break, Point Break and Reef Break to Desing Artificual Surfing Reef |
| 3 D.M. Machado (<i>wave climate</i>) | Wave Climate and Events Migration Mud at Cassino Beach, RS, Brazil: An Investigation |
| 4 Adriano Wiermann (<i>wave modelling</i>) | Advantages of cloud computing for wave forecast systems |
| 5 Uggo de Pinho (<i>nonlinear wave dynamic</i>) | Emergence of Short-Crestedness in Originally Unidirectional Nonlinear Waves – Revisited. |
| 6 Adrieni De Andrade (<i>wave climate</i>) | Wave and Wind Characterization Near AÇÚ Port Region - Rio de Janeiro - Brazil |
| 7 Paul Liu (<i>extreme waves</i>) | “There is no such thing as freaque waves!” |
| 8 Fernando Calmon Sobral (<i>long waves</i>) | Swash Analysis and the Associated Beach Morphological Changes: an Infragravity Waves Approach |
| 9 Rogerio Neder Candella (<i>Extreme waves</i>) | Freak Waves in the Southern Ocean: A Preliminary Study |
| 10 Bruna Oliveira (<i>wave modellig</i>) | Decadal Variability of the Waves Climate Through Model WAVEWATCH III in Santa Catarina Coast |

