

MARINELIVE WORKSHOPS – NOVEMBER 21-23, 2012

Workshop on “Prime Movers”

Workshop on “Ship Automation and Control”

VENUE: Metropolitan Hotel, Syngrou Avenue 385, 175 64 Athens

Final Program

Wednesday, November 21, 2012	
09:00 – 10:30	Registration
10:30 – 10:45	Welcome by Prof. J. Prousalidis
10:45 – 11:30	Keynote paper Title: <i>“KitVes: High Altitude Kites for Electricity Generation for Naval Applications”</i> Presenter: Dr. M. Corongiou, Sequoia Automation
11:30 – 12:00	Coffee Break
	Session A1 (Chairmen: Dr. K. Hermann, Dr G. Weisser)
12:00 – 12:30	L. Kaiktsis, J. Prousalidis, <i>“Turning the AES “greener” via more Efficient Thermal Engines – New Challenges”</i>
12:30 – 13:00	P. Kontoulis, L. Kaiktsis, <i>“ Heavy Fuel Oil thermo-physical Properties: A New Model for CFD Studies in Marine Engines”</i>
13:00 – 13:30	<i>Presentation by EXA Corporation: “Use of Simulation in Propulsion Applications”</i>
13:30 – 14:30	Lunch Break
	Session A2 (Chairmen: Prof. C. Frangopoulos, Dr. F. Kanellos)
14:30 – 15:00	I.C. Kobougias, I.P. Georgakopoulos, S.E. Dallas, <i>“A Review About Power Converters Appropriate for Marine Vessels Shaft Generator Systems”</i>
15:00 – 15:30	A. Pittaras, A. Sarigiannidis, C. Patsios, A. Kladas, J. Prousalidis: <i>“Design and Comparison of Synchronous Machine Topologies for Application in Ship Shaft Generator Systems”</i>
15:30 – 16:00	E. Pananakis, P. Kontoulis, C. Chryssakis, L. Kaiktsis, <i>“Investigation of Injection Strategies for Partially Premixed Combustion in a Large Marine Engine”</i>

Thursday, November 22, 2012	
09:00 -10:00	Registration
10:00 – 11:00	<p>Keynote paper</p> <p>Title: "<i>Investigations with the ‘Spray Combustion Chamber’ – A Reference Experiment for Large Diesel Engine Combustion Systems</i>"</p> <p>Presenter: Dr. K. Herrmann, Wärtsila Switzerland</p>
11:00 – 11:30	Coffee Break
	Session B1 (Chairmen: Prof. L. Kaiktsis, Dr. C. Papadopoulos)
11:30 – 12:00	A. Greig, " <i>Ship Propulsion – an Update Meeting New Regulations</i> "
12:00 – 12:30	R. Bucknall, " <i>Low Carbon Shipping: The Potential of Electrical Technologies to Reduce Carbon Emissions from Ships</i> "
12:30 – 13:00	S.E. Dallas, I.P. Georgakopoulos, I.C. Kobougias , " <i>A Study on Power Semiconductors Devices Appropriate for High Power Applications in AES</i> "
13:00 – 14:00	Lunch Break
14:00 – 14:45	<p>Keynote paper</p> <p>Title: "<i>A Review of Power Electronic Converter Technologies</i>"</p> <p>Presenters: C. Hodge, A. Macalindin</p>
	Session B2 (Chairmen: Prof. A. Kladas, Dr. F. Kanellos)
15:00 – 15:30	S. Tsotoulidis, E. Mitronikas, A. Safacas, " <i>Implementation of a Wavelet Multiresolution Controller for a BLDC motor drive system</i> "
15:30 – 16:00	G. Tsekouras, F. Kanellos, " <i>Analysis of Ship Electric Power System Optimal Operation Equipped with Photovoltaics and Energy Storage System</i> "
16:30 – 18:00	Visit at the Ship Simulator Premises of “I. Angelikoussis Group” (MARAN) Return to Metropolitan hotel at 18:00
17:30 – 18:00	Registration to the Evening event / Welcome Coffee
18:00 – 21:00	<p>IMarEST/RINA Joint Event: Presentation of the MARINELIVE PROJECT</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Dr. John Prousalidis, Assoc. Prof., NTUA, “Welcome note” • Prof. Chris Hodge, Chairman of the Board of Trustees of IMarEST, “Addressing note” • Prof. Konstantinos Boulouchos, Director, Laboratory of Aerothermochemistry and Combustion Systems, ETH Zurich <i>“Large vs. Small IC Engines - similarities and differences across scales”</i> • Dr. German Weisser, Wärtsila Switzerland <i>“Emissions Regulations and Implications for Marine Engine Development”</i> <p>Awards Session</p>

Friday, November 23, 2012	
09:00 -10:00	Registration
10:00 – 10:30	Keynote paper Title: " <i>Reducing Fault Energy With Variable Speed Drive Technology</i> " Presenter: A. Macalindin, C. Hodge, BMT Defense
	Session C1 (Chairmen: Prof. R. Bucknall, Dr C. Patsios)
10:30-11:00	E. Nikolopoulou, V. Kontargyri, I. Gkonos, G. Tsekouras, E. Pyrgioti, I. Stathopoulos, J. Prousalidis, " <i>Investigating the Protection of Ship Electric Grids Against Lightning Strikes- The DEFKALION-THALIS project</i> "
11:00-11:30	A. Sourlagkas, " <i>On Protecting the Ship Electronic Control Equipment from Spikes</i> "
11:30 – 12:00	Coffee Break
	Session B3 (Chairmen: Prof. G. Korres, Dr. A. Greig)
12:00 – 12:30	J. Shi , R. Amgai, " <i>Generic Modeling and Analysis Environment Design for Shipboard Power System</i> "
12:30 – 13:00	Y. Tsourakis, P. Katsikas, G. Arvanitis, N. Karlovits, J. Prousalidis, " <i>The EPMACS of an AC/DC Ship Grid Emulator</i> "
13:00 – 13:30	N. Theodorakatos, N. Manousakis, G. Korres, " <i>Optimal PMU Placement Using Sequential Quadratic Programming</i> "
13:30 – 14:00	M. Benatmane, " <i>Typical Offshore Automation Systems – An Overview</i> "
14:00 – 14:30	P. Georgilakis, G. Korres, " <i>Mathcad-based Education on Modern Transmission Systems</i> "
14:30 – 14:45	Closure by J. Prousalidis
14:45 – 16:00	Lunch Break
16:00 – 17:00	MARINELIVE Advisory Committee Preparatory Meeting