



MINISTERUL EDUCAȚIEI, CERCETĂRII, TINERETULUI ȘI SPORTULUI

CONSTANȚA MARITIME UNIVERSITY

900663, CONSTANȚA, str. Mircea cel Bătrân, nr. 104, ROMÂNIA

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E-mail: info@imc.ro, Web: www.universitateamaritima.ro



World Scientific and Engineering Academy and Society (WSEAS)

together with

Constantza Maritime University (CMU)

organize three international conferences:

3rd International Conference on MARITIME and NAVAL SCIENCE and ENGINEERING

MN'10

Updated Program

3-5 September 2010

Constantza, ROMANIA

Program

- updated version -

The 3rd International Conference on **MARITIME and NAVAL SCIENCE and ENGINEERING** (MN'10)

Constantza, Romania, September 3-5, 2010

Day 1: 03 September 2010, Friday

09.30 – 11.30	REGISTRATION of participants and distribution of conference materials	CMU main hall
11.30 – 12.00	Opening Ceremony	Room A – 7th floor

12.00 – 13.30	Plenary Lectures	Room B – 1st floor
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Plenary Lecture 1



Indoor Ambiences in Spanish Merchant Ships

Jose A. Orosa
University of A Coruna, SPAIN.

Plenary Lecture 2:



Oncoming Revolution for Ship Propulsion - Fuel Cells

Deniz Unsalan
Piri Reis University, TURKEY.

Plenary Lecture 3:



Combined Complex Maritime Simulation Scenarios for Reducing Maritime Accidents caused by Human Error

Eugen Barsan
Constantza Maritime University, ROMANIA.

641-088

13.30– 15.00	Lunch Break	
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15.00 – 17.00	Session 1: Naval architecture and hydrodynamics of ships Chair: Jose A. Orosa	Room B – 1st floor
ID	Title	Authors
641-080	The Impact Behaviour of Composite Materials	Chircor Mihael, Dumitrache Ramona, Dumitrache Cosmin Laurentiu
641-206	Neural Networks Based Analysis of Ship Roll Stabilization	Fuat Alarcin, Ugur Bugra Celebi, Serkan Ekinci, Deniz Ünsalan
641-081	The Use of Composite Materials in the Construction of Recreation Boats	Dumitrache Ramona, Dumitrache Cosmin Laurentiu, Chircor Mihael, Stan Liviu Constantin
641-196	Use of a speed log for the detection of sea waves	Jaume Recolons Josep M.Torrents
641-139	Energetical and cavitation analysis of a network profiles in liquid medium	Beazit Ali, Ionel Popa, Adrian Popa
641-141	Reducing drag propeller cavitation by improving vessel wake	Beazit Ali, Ionel Popa, Mihai Bejan.
641-205	A Low Wash Hullform and Pollutant Free Inland Waterways Leisure Craft	Omar Yaakob, Mohd Afifi Abd Mukti, Ahmad Nasirudin, Tholudin Mat Lazim, Mohd Pauzi Abd Ghani, Kamarul Baharin Tawi

BANQUET: 20:00-23:00, September 03, 2010

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Please declare on Friday morning (03 September) at Registration Desk if you want to participate to the Banquet.

ACCESS TO THE BANQUET have only the Registered Authors and the Plenary Speakers.

Authors that participate as invited from the Plenary Speakers have free registration with full rights except banquet. These authors that have not paid registration at all (excepting CMU authors) can give the money for the ticket of the banquet to secretariat desk at least 8 hours before the Banquet.

Price for the banquet ticket 100 lei (equivalent 24 € or 30 USD).

Payment only in lei (Romanian currency)

Day 2: 04 September 2010, Saturday

09.30 – 11.30		Session 2: Maritime transport safety and technology Chair: Eugen Barsan	Room B – 1st floor
ID	Title	Authors	
641-075	Three Dimensional Maritime Transportation Models	Eliodor Constantinescu	
641-086	Noise-induced hearing loss for maritime navigating personnel	Ninela Radulescu, Loredana Pazara, Hanzu-Pazara Radu Ioan, Cecilia Adumitresi, Cristina Farcas, Ileana Ion, N. Ceamitru, Carmen Ciufu, E. V. Radulescu	
641-194	Dynamic Positioning System Navigational Simulator: Learning Through Cooperation	Alejandro Leon Arias, Juan Jose Usabiaga Santamaria	
641-179	The Risk of Occupational Safety and Health in Shipbuilding Industry in Turkey	Ugur Bugra Celebi, Serkan Ekinci, Fuat Alarcin, Deniz Ünsalan	
641-078	Proposal of a Costs Simulator, for Traffics between Spain and the Black Sea	Manuel Rodriguez Nuevo, F. Xavier Martinez De Oses, Marcel La Castells	
641-089	Towards a Romanian Maritime Cluster	Cristian Ianca, Ghiorghe Batrinca	

11.30– 12.00	Coffe Break	
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12.00 – 14.00		Session 3: Marine Engineering – Marine Engines – Marine Technologies Chair: Ghiorghe Batrinca	Room B – 1st floor
ID	Title	Authors	
641-091	Analysis of transient behavior during starter compensated of asynchronous motors propellant in low-powered electric boats	Ricard Bosch-Tous	
641-082	Combustion simulation for naval diesel engine	Liviu Constantin Stan, Feiza Memet, Nicolae Buzbuchi	
641-231	Guided Self-Supporting Gyroplane Used for Monitoring Coastal Area	Teodor-Viorel Chelaru, Mircea Cernat	
641-232	Unmanned Aerial Vehicle for Surveillance and Autonomous Monitoring Coastal Area	Teodor-Viorel Chelaru, Vasile Nicolae Constantinescu, Eduard Popa, Adrian Chelaru	
641-092	Virtual Labs for learning Electrical Machines in Marine Engineering	Pau Casals-Torrens, Ricard Bosch-Tous	
641-076	Considerations Regarding Kite Towed Ship's Manoeuvring	Nicolae Grosan, Dumitru Dinu	

14.00– 15.30	Lunch Break	
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15.30 – 17.30	Session 4: Maritime education and training and Human factor Chair: Xavier Martinez De Oses	Room B – 1st floor
ID	Title	Authors
641-073	Considerations about Effectiveness and Limits of Computer Based Training in Maritime Industry	Ghiorghe Batrinca, Gabriel Raicu
641-087	Maritime English – A Necessity for Nowadays Apprentices	Corina Popescu, Anastasia Varsami
641-178	A European Ecobono. addressing the need of a joint solution for the European Transport System	Juan Jose Usabiaga Santamaria
641-074	An Analysis of the M/Vs Anita and Norse Variant Distresses, in the Bermuda's Triangle	Radu Hanzu Pazara, Cioara Petrica Ionel, Eugen Barsan
641-079	Maritime Piracy and Long Range Identification and Tracking	Liliana Viorica Popa
641-090	Too much self confidence – a high contributing human factor in maritime accidents	Alina Lucia Bostina

Day 3: 05 September 2010, Sunday

09.30 – 11.30	Session 5: Risk analysis and traffic monitoring Chair: Deniz Unsalan	Room B – 1st floor
ID	Title	Authors
641-083	Analysis of the Ship Monitoring System – A Case Study for Constanta Port (Part 1)	Anastasia Varsami, Corina Popescu
641-084	Analysis of the Ship Monitoring System – A Case Study for Constanta Port (Part 2)	Anastasia Varsami, Corina Popescu
641-085	Analyzing of risks during tanker operations at off-shore terminals	Radu Hanzu-Pazara, Paulica Arsenie, Boyan Mednikarov, Blagovest Belev
641-171	Basic Principles For Ships Performance Ranking Merit	Luigi Iannone
641-197	Forecast Sale of Goods Using the "BROWN" Method	Rozalia Nistor, Costel Nistor, Mihaela-Carmen Muntean



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12.00 – 13.30	Plenary Lectures	Room A – 7th floor
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Plenary Lecture 1:

	Monitoring of Distributed Parameter Systems Based on Sensor Networks and Virtual Instrumentation	Constantin Volosencu, "Politehnica" University of Timisoara, ROMANIA 641-208
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Plenary Lecture 2:

	The Break Water under Current Action. A Distortional Simulation Approach.	Dumitru Dinu, Constantza Maritime University, ROMANIA 641-044
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Plenary Lecture 3:

	The Systems Personalization with Hardware and Software Methods	Mihaela Hnatiuc, Constantza Maritime University, ROMANIA 641-047
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13.30– 15.00	Lunch Break	
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16.00 – 18.00	Session 1 Decision support systems and Artificial Intelligence methods in maritime transport Chair: Feiza Memet	Room A – 7th floor
ID	Title	Authors
641-054	A Hybrid Selective Numerical Method for Evaluation of the Mutual Coupling between Monopole Antennas on Small Ground Planes	Razvan Tamas, George Caruntu, Dan Popa, Daniela Deacu, Cristian Sima
641-211	Application of Virtual Instrumentation for Sensor Network Monitoring	Constantin Volosencu, Victor Malita
641-103	Wavelet Transform – Modern Tool for Nonstationary Signals Analysis	Cornel Panait, Mircea Răducanu, George Căruntu
641-181	Web-based tool for the automated 3-d reactive molding simulations	Robert Rajca, Lukasz Matysiak, Michal Banas, Robert Sekula
641-052	Underwater radiated noise of ships' machinery in shallow water	Mihail Pricop, Vergil Chitac, Florin Gheorghe, Tiberiu Pazara, Valentin Oncica, Dinu Atodiresei, Codruta Pricop
641-056	A Wavelet-MoM Approach for Evaluation of the Mutual Coupling between Monopole Antennas	Razvan Tamas, George Caruntu, Dan Popa, Cristian Sima, Daniela Deacu

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Day 2: 04 September 2010, Saturday

09.30 – 11.30		Session 2 Manufacturing System and Industrial Engineering Chair: Constantin Volosencu	Room A – 7th floor
ID	Title	Authors	
641-228	Improved Genetic Algorithm for Dynamic Economic Dispatch	Simona Dinu, Violeta Ciucur	
641-045	A Fuzzy Approach for an Intelligent Traffic Light Controller	Lucian Balut, Simona Dinu	
641-040	First Order Model for an a-b-c Radar Tracker	Lucian Balut	
641-230	Mathematical model of electro regime deformed by low voltage networks	Violeta-Vali Ciucur , Ionut Ciucur	
641-216	Finite element analysis of the stress state of coating surfaces	Catalina Maier, Alexandru Epureanu, Vasile Marinescu	
641-201	Interactive Manipulation of Target Functions for the Optimization of Mold Temperature Control Systems	Dirk Biermann, Raffael Joliet, Thomas Michelitsch	

11.30– 12.00	Coffe Break	
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12.00 – 14.00		Session 3 Quality, Quality Assurance, Quality Control, Quality Management Chair: Lucian BALUT	Room A – 7th floor
ID	Title	Authors	
641-132	Determination of Pistol Guaranteed Lifetime with Respect to its Safety	Robert Jankovych	
641-156	Computer program for the x bar and r group control chart	Eftimie Nicolae	
641-188	Performance Dashboards for Universities	Mihaela Muntean, Gheorghe Sabau, Ana-Ramona Bologa, Traian Surcel, Alexandra Florea	
641-053	Improving the quality of the molded polymeric parts by reducing the residual stress	Alexandra Nita, Emil Oanta	
641-229	Monitoring the quality of electricity	Violeta-Vali Ciucur	
641-046	X-Ray Diffraction Analysis at Naval Welded Steel	Constantin Dumitrache, Mihaela Barhalescu, Adrian Sabau, Emil Oanta	
641-098	Presence Surveillance Based on Virtual Instrumentation	Constantin Volosencu, Argentina Arpentin	

14.00– 15.30	Lunch Break	
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15.30 – 17.30	Session 4 Production Systems and Production Planning Chair: Dumitru Dinu	Room A – 7th floor
ID	Title	Authors
641-146	Fuzzy Control of a Variable Speed Wind Turbine for Standalone Applications	Radian Belu
641-209	Urban Traffic Control System Architecture Based on Wireless Sensor-Actuator Networks	Daniel Ioan Curiac, Constantin Volosencu
641-131	Tightening bounding constraints of the miller-tucker- zemlin based formulation of capacitated vehicle routing problems and some extensions	Imdat Kara
641-055	Intellectual Property Law Applicable to Obtain Certificares of Plant	Constantin Anechitoae, Ileana-Irina Albu Panaitescu, Vlad-Adrian Panaitescu
641-192	Project management on new product development and launch	Virgil Popa, Dorina Tanasescu, Corina Dinca, Mihai Nicolae
641-127	The integration of RE and RP techniques in industrial field	Vlad Tut, Iancu Serban, Cristian Cosma, Aurel Tulcan

Day 3: 05 September 2010, Sunday

09.30 – 11.30	Session 5 Manufacturing Engineering Chair: Mihaela Hnatiuc, Nicolae Buzbuchi	Room A – 7th floor
ID	Title	Authors
641-048	Exergy and environmental analysis of the one stage vapor compression marine refrigerating machine working with ammonia	Feiza Memet, Liviu-Constantin Stan, Nicolae Buzbuchi
641-043	Operation Factors Influence on the Dynamics Behavior of Marine Propulsion Systems	Liviu-Constantin Stan, Nicolae Buzbuchi
641-167	Elastic and safety clutches with rubber bushing and shearing pins	Ioan Stroe
641-177	Materials For Filtering Of Electromagnetic Waves	Elena Valentina Stoian, Cristina Rizescu, Jana Pinteaa, Zorica Bacinschi, Maria -Cristiana Enescu
641-041	Corrosive effect of sea water on the superficial layers obtained by electrical sparking	Mihaela Barhalescu
641-049	Aspects of using Unicoool R417 A instead of R 22 in the reefer transport	Feiza Memet, Darie Tudor, Daniela Mitu, Adrian Sabau
641-050	Simplified mechanism used to estimate the NOx emission of Diesel engine	Liviu-Constantin Stan, Daniela-Elena Mitu

11.30– 12.00	Coffe Break	
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12.00 – 14.00	Session 6 Manufacturing Engineering, Quality And Production Systems Chair: Codruta PRICOP	Room A – 7th floor
ID	Title	Authors
641-200	Assessment of the Energy Consumption for the First Breaking Step, Depending on the Break Adjustment in the Wheat Milling Process	Ioan Danciu, Cristina Danciu
641-219	Transient regimes thermal analysis of an induction machine	Valentin Navrapescu, Mihaela Chefneux, Mihaela Scortescu, Aurel-Ionut Chirila, Ioan-Dragos Deaconu
641-042	Cost assessment to go on a route from a shipping network modeled by Petri net transport (PNT), an interactive system	Vasilica Bordea, Nicolae Bordea
641-187	Fabrication Through P/M of Ecological Aluminium Based Composite Materials. Part 1. Characterization And Densification of Powder Mixtures	Authors Ileana-Nicoleta Popescu, Simona Zamfir, Violeta-Florina Anghelina, Carmen-Otilia Rusanescu
641-198	Fabrication Through P/M Of Ecological Aluminum Based Composite Materials. Part 2 - Densification And Microstructural Development During The Sintering	Ileana-Nicoleta Popescu, Simona Zamfir, Violeta-Florina Anghelina
641-191	Influence Of Heat Treatment On Microstructure And Corrosion Behavior Of 7xxx Al Alloys	Maria-Cristiana Enescu, Ileana-Nicoleta Popescu, Raluca Zamfir, Alina Molagic, Vasile Bratu



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EG'10

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Plenary Lecture 1:

	Turbidity determination using solar broadband models	Eftimie Elena, Transilvania University of Brasov, ROMANIA	641-155
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Plenary Lecture 2:

	Impact of Wastewater Slops in Mangalia Harbour Area	Mariana Panaitescu, Constanta Maritime University, ROMANIA.	
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Plenary Lecture 3:

	Oil Spill Simulation from an Oilpetroleum Off-Shore Platform in the Black Sea	Fanel-Viorel Panaitescu, Constanta Maritime University, ROMANIA.	
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Plenary Lecture 4:

	Environmental Impact Assessment of Hazardous Industries and Application of Cleaner and Greener Technology	V.G. Iyer and N.Mastorakis	641-227
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13.30– 15.00	Lunch Break	
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15.00 – 17.00	Session 1: Pollution and monitoring Chair: Sabina Zagan	Room C – 1st floor
641-058	Model Simulation of High Power Diesel Engine Exhaust Gas Pollutants	Nicolae Buzbuchi, Liviu Constantin Stan
641-060	Aspects for Air Pollution in the Area of Danube Delta Reservation Caused by Engines for Ship Propulsion	Darie Tudor, Feiza Memet, Adrian Sabau
641-226	The Investigation of Wind Effects on Porous and Weak Rocks with Using Air Tunnel	Adil Binal
641-207	Seismic environments and earthquake engineering	Marius Mosoarca, Victor Gioncu
641-193	Relative Humidity Monitoring	Carmen - Otilia Rusănescu, Ileana Nicoleta Popescu, David Ladislau
641-065	Evolution of greenhouse gas emissions in Cluj county versus county in Constanta	Dana Florina Muntean, Mariana Panaitescu, Dumitru Ristoiu,
641-066	Cd and Ni in respirable dust from Cluj and Constanta	Dana Florina Muntean, Viorel Panaitescu, Dumitru Ristoiu

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Day 2: 04 September 2010, Saturday

09.30 – 11.30		Session 2: Modeling, simulation and optimization Chair: Eftimie Elena	Room C – 1st floor
641-061	The eutrophication model and its application to Rosu Lake –Romania	Gabriela Elena Dumitran, Liana Ioana Vuta, Vlad Adrian Panaitescu	
641-059	Diffusion - driven Instability in Activator - Inhibitor Model - A Mathematical Approach to Biology -	Eliodor Constantinescu, Dumitru Deleanu	
641-070	Soot Modeling in Diesel Engine	Adrian Sabau, Oanta Emil	
641-068	Developing of a Database with Representations of Unfolded Surfaces Using the Engineering Graphics	Carmen Popa, Ivona Petre	
641-221	Modeling of thermodynamics properties for cryogenic fluids	Sorin GHERGHINESCU	

11.30– 12.00	Coffe Break	
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12.00 – 14.00		Session 3: Biodiversity conservation Chair: Mariana Panaitescu	Room C – 1st floor
641-064	Dynamics of marine bacterioplankton density in filtered (0.45 µm) microcosms supplemented with gasoline	Simona Ghita, Ioan Ardelean	
641-069	Sound parameters identification for the bottlenose dolphins from N-W Black Sea, using time – frequency analysis	Chitac Vergil, Pricop Mihail, Atodiresei Dinu Gheorghe Florin, Ristea Marian, Bautu Andrei	
641-071	Pollution degree of Tabacarie Lake in 2009	Sabina Zagan, Irina Enache	
641-186	Some geo-aspects of the Black Sea basin	Ancuta Rotaru	
641-067	Experimental study and statistical calculus of efficiency Techirghiol Lake mud	Panaitescu Mariana, Surdu Olga, Oncioiu Ionica	

14.00– 15.30	Lunch Break	
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15.30 – 17.30	Session 4: Water supply and wastewater treatment Chair: V.G. Iyer	Room C – 1st floor
641-099	The study of lead and zinc concentration and their changes in surface sediments of zayanderood river	Javad Tabatabaei
641-220	Exergoeconomic analysis to study cryogenic distillation of hydrogen isotopes	Sorin GHERGHINESCU
641-222	Efficiency of multilayer insulations in cryogenic applications	Sorin GHERGHINESCU
641-062	Treatment of Cr(VI) Polluted Wastewater with Scrap Iron. Part 1: Cr(VI) reduction	Marius Gheju, Ionel Balcu
641-063	Treatment of Cr(VI) Polluted Wastewater with Scrap Iron. Part 2: Removal of Species Resulted from Cr(VI) Reduction	Marius Gheju, Ionel Balcu
641-165	Lead Ion Adsorption from Wastewater by Recycle Paper Processing Waste Sludge	Panida Sampranpiboon, Satapaul Kamhom, Pisit Charnkeitkong
641-202	Title: "Application of Wastewater Treatment from Preserved Egg Production	Panida Sampranpiboon, Satapaul Kamhom, Pisit Charnkeitkong
641-218	Hydrogen risk analyze in a cryogenically distillation plant	Gheorghe Popescu

Day 3: 05 September 2010, Sunday

09.30 – 11.30	Session 5: Advances in Energy Systems and Sustainability Chair: Fanel-Viorel Panaitescu	Room C – 1st floor
641-161	Estimating clear sky solar global radiation using clearness index, for brasov urban area	Serban Cristina
641-162	Autonomous hybrid renewable energy system	Mihai Tiberiu Lates, Catalin Alexandru
641-051	Assessment of underwater noise produced by ships at the entrance of port Constanta	Mihail Pricop, Vergil Chitac, Tiberiu Pazara, Adrian Popa, Valentin Oncica, Codruta Pricop
641-072	Green House - a concept less known Integrated design method	Gabriela Draghici, Dan Cotes, Ioan – Mircea Popovici, Mihaela Dragoi
641-210	Energy Consumption and Indoor Climate Analysis of Office Buildings	Martin Thalfeldt
641-057	Environment and its Protection by Legal Means	Anechitoae Constantin, Albu Panaitescu Ileana- Irina, Panaitescu Vlad-Adrian