

IMAM2019 Programme

Monday, 9 September 2019

9h30– 10h00 – Black sea Hall (3)	Opening session	<i>Opening Addresses,</i>
10h00-10h30 – Black sea Hall (3)	Plenary session 1: Keynote Lecture 1 Chair: P. Georgiev	Challenges for the Black Sea sustainability and blue growth in the context of glocalization, <i>Snejana Moncheva, Institute of Oceanology, Varna, BAS</i>
Coffee-Break (10h30-11h00)		
11h00-12h00 – Black sea Hall (3)	Plenary session 2: Keynote Lectures 2 &3 Chair: R. Kishev	Global Player at the German Baltic Coastline Mecklenburg-Western Pomerania in the Focus of Asian Investors <i>Ralf Tschullik, MV WERFTEN Wismar GmbH</i>
		The development of Second Generation Intact Stability Criteria <i>Alberto Francescutto, University of Trieste</i>
Lunch (12h00-14h00)		
(14h00-15h30) Varna Hall (1) Special Session in Honour of Prof. Pentscho Pentschew Chairs: (tbd)	(14h00-15h30) Odessos Hall (2) Offshore renewable energy & coastal development, S2.1 Chairs: (tbd)	(14h00-15h30) Black sea Hall (3) Hydrodynamics, S3.1 Chairs: (tbd)
Ultimate strength of box girders considering welding residual stresses. <i>T. Lindemann, E. Backhaus, Z. Bi & P. Kaeding</i>	Boosting offshore renewable energy in Europe: Skills shortages and gaps in education and training <i>E. Sdoukopoulos, V.M. Perra, G. Tsafonias, M. Boile & L. Fraga Lago</i>	Investigation of flow noise with different turbulence models <i>S. Bulut & S. Ergin</i>
Technical solutions for deep-sea vehicles that withstand the enormous ambient pressure <i>M. Paschen & K. Breddermann</i>	Life cycle assessment of two different renewable energy systems for a selected region: Bozcaada Island <i>A.E. Sentürk & E. Öguz</i>	On the use of Smoothed Particles Hydrodynamics for the simulation of a two dimensional dam-breaking flow <i>G.K. Dafermos & G.N. Zaraphonitis</i>
Modal analysis of wind turbine rotor blades on the basis of a damped eigenvalue problem <i>E. Stanoev</i>	Sea-basin monitoring system assessment activity to support sustainable growth in the marine and maritime economy <i>A. Palazov, V. Slabakova, V. Lyubartsev, N. Pinardi, F. Blanc & E. Moussat</i>	On an extended boundary method for the removal of irregular frequencies in 3D pulsating source panel methods <i>G.K. Dafermos, G.N. Zaraphonitis & A.D. Papanikolaou</i>
Coffee-Break (15h30-16h00)		
(16h00-17h30) Varna Hall (1) Ship design (1), S1.2 Chairs: (tbd)	(16h00-17h30) Odessos Hall (2) Offshore & coastal development, S2.2 Chairs: (tbd)	(16h00-17h30) Black sea Hall (3) Hydrodynamics-seakeeping, S3.2 Chairs: (tbd)
Justification of main characteristics of river-sea dry-cargo vessels with extra-full hull forms <i>G.V. Egorov, V.I. Tonyuk, A.G. Egorov & I.F. Davydov</i>	Pneumo-structures for gravitational hydrotechnical construction <i>A. Palazov, G. Georgiev & V. Donev</i>	On the assessment of roll damping for a damaged ferry <i>M. Acanfora, T. Coppola, F. De Luca & D. Lauria</i>
Features of the CV03 concept of floating transshipment complex with open cargo hold	Drone-based geomorphological and landscape mapping of Bolata Cove, Bulgarian coast	Numerical prediction with experimental validation of semisubmersible's viscous damped

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<i>G.V. Egorov, V.I. Tonyuk, A.G. Egorov & A.V. Demidyuk</i>	<i>B. Prodanov, I. Kotsev, T. Lambev, L. Dimitrov, R. Bekova & D. Dechev</i>	heave motions <i>R. Kishev, G. Nikolov & S. Kirilova</i>
Multi attribute design decision solution of MPV accounting for shipyard building constraints <i>P. Georgiev, Y. Garbatov, L. Kirilov & Y. Denev</i>	Comparative study of the capacity of three plant species from the Poaceae family for erosion and flooding control of coastal areas <i>S. Vergiev</i>	On the seakeeping behaviour of an offshore wind farm vessel during the jack-up process in the early design stage <i>M. Liebert</i>
		Improvement of ships seakeeping performance by application of the full-scale CFD simulations <i>K. Niklas & H. Pruszko</i>

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(9h00-10h30) Varna Hall (1) Ship design (2), S1.3 Chairs: tbd	(9h00-10h30) Odessos Hall (2) Offshore renewable energy, S2.3 Chairs: (tbd)	(9h00-10h30) Black sea Hall (3) Hydrodynamics – resistance (1), S3.3 Chairs: (tbd)
Dynamic analysis of the stationary behavior of resilient mounting elements for marine applications <i>J. Fragasso & L. Moro</i> Application of the Second Generation Intact Stability Criteria for fast semi displacement ships <i>E. Begović, B. Rinauro & F. Cakici</i> Risk-based approach for evaluating alternative ship design for fire safety <i>I.A. Koromila & K.J. Spyrou</i>	WEC performance and optimization in variable bathymetry regions <i>K.A. Belibassakis & M.I. Bonovas</i> CFD simulation of the hydrodynamic performance of a fin-ring marine current turbine <i>M.I. Ibrahim, T.M. Hamed & A.A. Banawan</i> Efficiency of an oscillating water column device in front of a vertical breakwater <i>D.N. Konispoliatis & S.A. Mavrakos</i>	Onboard measurements to verify biofouling effect on ship performance <i>E. Altarriba & J. Halonen</i> A nonlinear BEM for the ship wave-resistance problem <i>K.A. Belibassakis & A. Kegkeroglou</i> An investigation into the effect of the hull vane on the ship resistance in OPENFOAM <i>C. Celik, D.B. Danisman, P. Kaklis & S. Khan</i>
Coffee-Break (10h30-11h00)		
(11h00-12h30) Varna Hall (1) Ship design (3), S1.4 Chairs: (tbd) ,	Technical Visit Bulgarian Ship Hydrodynamic Centre (morning visit)	(11h00-12h30) Black sea Hall (3) Hydrodynamics – resistance (2), S3.4 Chairs: (tbd)
Computer model application to the evaluation of energy efficiency measures for cruise ships <i>L. Mocerino & E. Rizzuto</i> Eco patrol and control vessel – EPACV <i>V. Slapničar, I. Adum, I. Grubišić & H. Orešković</i> Development of autonomous underwater vehicle <i>A.K. Sujith, A. Mathew, S. Shajan, S. Pai G. & P.G. Sunil Kumar</i>		Uncertainty analysis of numerical and experimental resistance tests for ONR Tumblehome <i>C. Delen & S. Bal</i> Resistance tests with 3D printed models in the early ship design stage of high speed vessels <i>R. Kloske, M. Josten & B. Carstensen</i> On the influence of local changes of the KCS hull form upon its total resistance <i>A.V. Pechenyuk</i>
Lunch (12h00-14h00)		

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<p>(14h00-15h30) Varna Hall (1) Ship structures (1), S1.5</p> <p>Chairs: (tbd)</p>	<p>Technical Visit Bulgarian Ship Hydrodynamic Centre (afternoon visit)</p>	<p>(14h00-15h30) Black sea Hall (3) Hydrodynamics- manoeuvring (1), S3.5</p> <p>Chairs: (tbd)</p>
<p>Structural strain approach for low-cycle fatigue life prediction of ship welded joints <i>P. Corigliano, V. Crupi, X. Pei & P. Dong</i></p> <p>Design of honeycomb structures for naval applications <i>V. Crupi & G. Palomba</i></p> <p>Determination of abrasion resistance of welded layers <i>A.M. Stoyanova & M.Iv. Konsulova-Bakalova</i></p>		<p>Prediction of maneuvering coefficients of Delft catamaran 372 hull form <i>S. Duman & S. Bal</i></p> <p>Identification of the twin propellers – twin rudder system in vessel simulation model by “grey-box” method <i>D. Efremov & E. Milanov</i></p> <p>Application of wavelet functions for identification of ship models <i>M.G. Todorova & R. Parvanova</i></p>
<p>Coffee-Break (15h30-16h00)</p>		
<p>(16h00-17h30) Varna Hall (1) Ship structures (2), S1.6</p> <p>Chairs: (tbd)</p>		<p>(16h00-17h30) Black sea Hall (3) Hydrodynamics- manoeuvring (2), S3.6</p> <p>Chairs: (tbd)</p>
<p>Quasi-static direct strength assessment of offshore multipurpose support vessel in head sea <i>M. Tekgoz, N. Almany & Y. Garbatov</i></p> <p>FE analysis of support-specimen interaction of compressive experimental test <i>K. Woloszyk & Y. Garbatov</i></p> <p>Uncertainty assessment of ultimate strength of corroded stiffened plates subjected to maintenance <i>K. Woloszyk & Y. Garbatov</i></p> <p>Strength and weight characteristics of a self-propelled barge based on sandwich panel system construction <i>M.S. Elsaka, H.W. Leheta, A.S. Zayed & S.F. Badran</i></p>		<p>Manoeuvring test for a self-running ship model in various water depth conditions <i>M.A. Hinojosa, H.T. Xu & C. Guedes Soares</i></p> <p>Numerical simulation of PMM tests of a container ship in regular following waves <i>C.Q. Ma, N. Ma & X.C. Gu</i></p> <p>Wave filtering for marine DP system using adaptive iterated extended Kalman filter <i>I. Popov & E. Milanov</i></p>

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<p>(9h00-10h30) Varna Hall (1) Propulsion (1), S1.7</p> <p>Chairs: (tbd)</p>	<p>(9h00-10h30) Odessos Hall (2) Shipyards, S2.7</p> <p>Chairs: (tbd)</p>	<p>(9h00-10h30) Black sea Hall (3) Hydrodynamics – sea waves, S3.7</p> <p>Chairs: (tbd)</p>
<p>Optimum design of a container ship's propeller from Wageningen B-series at the minimum BSFC <i>M. Tadros, M. Ventura & C. Guedes</i></p>	<p>Developing sustainable green ship recycling facilities in Indonesia: Investigation of current situation <i>S. Fariya, S.A. Gunbeyaz, R.E. Kurt, S.</i></p>	<p>A novel coupled-mode model for waves propagating in variable bathymetry in the presence of sheared currents,</p>

<p><i>Soares</i></p> <p>Propeller diameter selection based on numerical analysis of wake and induced-pressure on blades and on tunnel stern surface <i>C. Delen, F. De Luca, S. Mancini & C. Pensa</i></p> <p>Water-jet propulsion system with vectorised thrust <i>G. Ilieva</i></p>	<p><i>Sunaryo & E.B. Djatmiko</i></p> <p>Study into the reactive power consumption regimes in electric power supply system of shipbuilding enterprises <i>V.N. Gyurov</i></p> <p>What the CAD industry can do for the Shipyard 4.0 <i>R. Perez Fernandez & F.J. Regueira</i></p> <p>Identifying skill shortages and education and training gaps for the shipbuilding industry in Europe <i>E. Sdoukopoulos, G. Tsafonias, V.M. Perra, M. Boile & L. Fraga Lago</i></p>	<p><i>K.A. Belibassakis & J. Touboul</i></p> <p>Uncertainty analysis of parametric wave spectrum estimation from ship motions <i>M.A. Hinostrroza & C. Guedes Soares</i></p> <p>Study of weakly nonlinear water waves subjected to stochastic wind excitation <i>M. Hollm & L. Dostal</i></p>
<p>Coffee-Break (10h30-11h00)</p>		
<p>(11h00-12h30) Varna Hall (1) Propulsion (2), S1.8 Chairs: (tbd)</p>	<p>(11h00-12h30) Odessos Hall (2) Marine transportation, S2.8 Chairs: (tbd)</p>	<p>(11h00-12h30) Black sea Hall (3) Machinery & control (1), S3.8 Chairs: (tbd)</p>
<p>Oceanic biomimicry – an effective tool to achieve an innovative blade design <i>G. Ilieva</i></p> <p>A methodology to predict the thrust-reduction <i>C. Celik & A. Bolek</i></p> <p>Marine propeller optimization using open-source CFD <i>Th. Papakonstantinou, G. Grigoropoulos & G. Papadakis</i></p>	<p>Shipping brokerage contract in Private International Law <i>D. Marinova</i></p> <p>Current situation of VTS systems in Brazil and challenges for its implementation <i>E.R.N. Marques & E. Lobo</i></p> <p>Development of a navigation support system by means of a synthetic scenario <i>M. Martelli, N. Faggioni & R. Zaccone</i></p>	<p>Application of high temperature fuel cell powered by LNG on a ferry boat: a case study <i>T. Coppola, L. Micoli & M. Turco</i></p> <p>Preliminary approach to the application of the Environmental Ship Index <i>L. Mocerino & E. Rizzuto</i></p> <p>Simulation of the performance of marine genset based on double-Wiebe function <i>M. Tadros, M. Ventura & C. Guedes Soares</i></p>
<p>Lunch (12h00-14h00)</p>		
<p>(14h00-15h30) Varna Hall (1) Propulsion (3), S1.9 Chairs: (tbd)</p>	<p>(14h00-15h30) Odessos Hall (2) Marine transportation & Safety, S2.9 Chairs: (tbd)</p>	<p>(14h00-15h30) Black sea Hall (3) Machinery & control (2), S3.9 Chairs: (tbd)</p>
<p>A quantum propulsion method <i>N. Markov</i></p> <p>Towards the development of a bio-inspired shark-shaped unmanned underwater vehicle <i>S. Janardhanan, P. Venu, F.B. Shahabudheen, A. Issac, O. Abhijith, P. Das & G. Ilieva</i></p> <p>Controllability studies on fish-shaped unmanned under water vehicle</p>	<p>Happiness –Wind of change for shipping companies, a new way to measure their performance <i>S. Niyazieva</i></p> <p>A machine learning approach to assess vessel performance based on operational profile <i>A. Senteris, A. Kanellopoulou & G.N. Zaraphonitis</i></p> <p>Statistical analysis of MAIB database for the period 1990–2016</p>	<p>Data acquisition and processing techniques for a novel performance monitoring system based on KPIs <i>N. Themelis, Ch.C. Spandonidis & Ch. Giordamlis</i></p> <p>A ship energy efficiency analysis by considering trim influence and waste recycling <i>V. Vigna, M. Altosole, M. Figari & A. Ferrari</i></p> <p>Predicting the performance of a sequentially turbocharged marine</p>

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<p>undergoing manoeuvring motions <i>A.K. Ranjith, S. Janardhanan, V. Chandran, N.J. Gomez, G. Ilieva & J. Sygal</i></p>	<p><i>B. Navas de Maya, S.I. Ahn & R.E. Kurt</i></p>	<p>diesel engine using ANFIS <i>M. Tadros, M. Ventura, C. Guedes Soares & S. Lampreia</i></p>
<p>Coffee-Break (15h30-16h00)</p>		
<p>(16h00-17h30) Varna Hall (1) Aquaculture & fishing, S1.10 Chairs: (tbd)</p>	<p>(16h00-17h30) Odessos Hall (2) Safety and marine environment protection, S2.10 Chairs: (tbd)</p>	
<p>Dioxins and dioxin-like PCB-s in perch and sander of North-Eastern Baltic Sea and Peipsi Lake <i>L. Järv, T. Raid, M. Simm, M. Radin, H. Kiviranta & P. Ruokojärvi</i></p>	<p>Numerical study on natural convection in a ship cargo tank <i>K. Sahin & S. Ergin</i></p>	
<p>GIS-aided spatial analysis of fish abundance and biomass in the Bulgarian Black Sea <i>V. Raykov & I.S. Kotsev</i></p>	<p>Oil spills behavior on various sandy beaches along the Bulgarian Black Sea coast <i>A. Simeonova & K. Stankovich</i></p>	
<p>Does spatial patterns in fishing explain dynamics of commercial pelagic populations in Baltic Sea? <i>E. Sepp, T. Raid & T. Arula</i></p>	<p>Introducing a bio-inspired Life-Cycle Framework for emerging risks in the maritime industry <i>N.P. Ventikos & K. Louzis</i></p>	
<p>LWR models of 2 commercially important species from the Bulgarian marine area <i>I. Zlateva, N. Nikolov, V. Raykov & M. Yankova</i></p>		