



# INT-NAM 2011

## First International Symposium on Naval Architecture and Maritime

24-25 October 2011, Yıldız Technical University Oditorium, Yıldız, Besiktas, İstanbul

### SYMPORIUM PROGRAM

Monday, October 24th, 2011

09:00 - 09:45

#### REGISTRATION

09:45 - 10:45

#### OPENING PLENARY SESSION

Welcome Speeches by Authorities and Academic Representatives

10:45 - 11:00

Coffee Break

#### INVITED KEYNOTE PAPERS

11:00 - 11:20

Recent Progress in Potential Flow Calculations by Prof.Dr-Ing.Heinrich Söding, Technische Universität Hamburg-Harburg, Germany

11:20 - 11:40

Station Keeping and Seakeeping in Offshore Vessels Design by Prof.Radoslav Nabergoj, University of Trieste, Italy

11:40 - 12:00

Multi-media Pollutants in the Shipbuilding Industry and the Importance of Environmental Management by Prof.Bhaskar Kura, Ph.D., P.E., University of New Orleans, New Orleans, USA

12:00 - 12:30

Discussion Session

12:30 - 13:30

Lunch Break

#### TECHNICAL SESSIONS (Monday Afternoon , 24 October 2011)

13:30 - 14:20

##### HYDRODYNAMICS - A

Chairman: Prof.H.Söding

Assessment of Bow Form Influence on Deck Wetness Intensity Based on Model Tests

V.Rakitin, R.Kishev

Experimental Validation of Viscous Free Surface Flow Computation around Fast NPL Catamarans at Large Drift Angles

M.Haase, S.Winkler, R.Bronsart, N.Kornev

A Desingularized Method for Ship-Wave Computation in Time Domain

D.Bruzzone, C.Gironi

A Numerical Procedure for the Calculation of Squat for Slender Ships

M. Alidadi, S.Çalışal

##### MARITIME TRANSPORTATION - A

Chairman: Prof.G.Cerit

Planning Suite for Infrastructure and Process Design of Seaport Ports (Development and Use of an Advanced Planning Environment)

J.W.Böse, C.Jahn

New Trends in Maritime Transportation

G.Elmas

AIS Implementation to Turkish Aids to Navigation System

B.Emiroğlu

A Comparative Analysis of Gate Entry Systems at Major Container Ports in Turkey

G.Günay, T.Keçeci

14:20 - 14:30

Coffee Break

EXHIBITION HALL

## TECHNICAL SESSIONS (Monday Afternoon , 24 October 2011)

ODITORIUM HALL	<b>SHIP DESIGN - A</b> Chairman: Prof.R.Nabergoj		EXHIBITION HALL	<b>MARINE STRUCTURES AND SAFETY</b> Chairman: Prof.A.Kukner	
	Considering the Life Cycle Performance in Ship Design	J.Wagner, R.Bronsart		The Development of 90 Person Free-fall Lifeboat to Support Evacuation System in Offshore Environment	D.Bae,A.Zakki,T.Kim
	An estimation of unsteady loading on a rudder of a RoPax vessel	E.Penttinen,J.Matusiak		Design and Maneuvering Simulation of an Autonomously Acting Free Fall Rescue Catamaran	R.Bronsart, G.Clauss, M.Haase,A.Kauffeldt, N.Kornev,N.Otten
	Influence of dedrise angle and interceptors' shape and position on resistance reduction	F.DeLuca, C. Pensa		Comparative Study on the Coupled Dynamic Analysis of Spar Type and Barge Type Floating Wind Turbine	H.Bagbancı,D.Karmakar,G.Soares
	Integration of CFD Grid Generation Tools into the Ship Design Process	R.Bronsart, L.Kleinsorge		Network based system for real time marine vessel monitoring, accident analysis and event reconstruction	E.Qureshi,I.Rakitin
	SDV - Swimmer Delivery Vehicle	A.Wilhelm, H.Goesmann		Inspection on Structural Effect of Geometry in Composite Sonar Domes	V.Alankaya, F.Alarçın
	Illumination Simulations in Yacht Interior Design	M.Kasapseçkin, B.Barlas, D.Altuncu		A Study on Ship Accidents in the Anchorage Area of the Strait of Istanbul	T.Keçeci
15:40 - 15:50		Coffee Break			
ODITORIUM HALL	<b>HUMAN FACTOR</b> Chairman: Prof.Meyer-Bohe		EXHIBITION HALL	<b>EDUCATION AND TRAINING</b> Chairman: Prof.N.Güler	
	The Human Element At Sea: An Evaluation Of International Regulations Regarding Seafarers	D.A.Okur		"Team 8" – An Innovative Boat for Sailing Education	A.Meyer-Bohe
	Fatigue of Seafarers: A Sample on Maritime Tanker Industry	E.Bal, L.Tavacıoğlu, Ö.Arslan		Attitude Inventory (BDI) Analysis for Maritime Students	U.Taç, L.Tavacıoğlu, Ö.Arslan, K.Kora
	Building ships the Dutch way How cooperation makes your ships cheaper, better and	H. Bugdayci, R. De Graaf		Electrical-Electronic and Control Education in Marine Engineering A Novel Educational Model for Turkey	G.Kökkü'lünk, T.Çoşgun, E.Akdoğan
	The Research of Relationship Between Perceived Service Quality and Satisfaction Level in Passenger	E. Arlı			
16:20 - 16:30		Coffee Break			
ODITORIUM HALL	<b>SHIP PROPULSION</b> Chairman: Prof.D.Bae		EXHIBITION HALL	<b>HYDRODYNAMICS - B</b> Chairman: Prof.A.C.Benim	
	Skewed Propeller Design for Minimum Induced Vibrations	M.Mosaad,W.Yehia		Comparative Seakeeping Performance Analysis of a Warship	T.Tezdogan, A.İ.Aldoğan
	Effects of Recent Upgrades on Background Noise Levels of Emerson Cavitation Tunnel	E.Korkut,M.Atlar		Application of Classical Blade Element Momentum Theory and a Boundary Element Method to Cavitating Marine Current Turbines	D.Usar, S.Bal
	Guidelines for Numerical Flow Simulation around Marine Propeller	A.Mosaad, M.Mosleh, H.El-Kilani,W.Yehia		Effect of Encounter Angle on Parametric Roll Motion in Regular Waves	E.Peşman, M.Taylan
	Wake Adapted Propeller Design Application to Navy Ships	A.Avcı,E.Korkut		A Comparative Study on Ship Motions: Theory vs. Model Experiments	T.Tezdogan, M.Taylan
	On the Modeling of Artificial Propeller Noise	A.Takinacı,T.Taralp		Examination of the Stability of Ships in Steady Beam Seas	E.Ücer
	Investigation of the Influence of Skew and Rake into the Propeller Performance and Cavitation	S.Ekinci,F.Çelik,Y.Arıkan			

ODITORIUM HALL	09:30 - 10:30	<b>GREEN TECHNOLOGIES - A</b>		EXHIBITION HALL	<b>SHIP DESIGN - C</b>		
		Chairman: Prof.B.Kura			Chairman: Prof.D.Sindel		
		Environment-friendly Hydraulic Liquids for Auxiliary Machinery on Board	M.Klausner		Influence of Ship's Hull Damage On Stability Parameters And Compartments Flooding Time	W.Mironiuk	
		Design for Energy Efficiency: Simulation-Driven Design and Hydrodynamic Optimization for Greener Ships and EEDI Compliance	M.Brenner,B.Şener		High Speed Planing Hulls Resistance Prediction Methods and Comparison	A.Kükner,M.Yasa	
		Hybrid Electric Propulsion for an Eco-Friendly Inland Waterway Passenger Catamaran	V.Bucci,A.Marino		Data Analysis of Initial Conceptional Design Stage for Fishing Vessels	A.Sayli,A.Alkan,A.Uysal	
		Green Materials and Their Use in Pleasure Craft Construction	S.Yeşildal,M.Önal, Ç.Özes, G.Neşer		Experimental Determination of the Effect of Catamaran Charac.on Roll Motion and Stability	Y.K.Demirel, M.Taylan	
10:30 - 10:40		Coffee Break					
ODITORIUM HALL	10:40 - 12:00	<b>GREEN TECHNOLOGIES - B</b>		EXHIBITION HALL	<b>HYDRODYNAMICS - C</b>		
		Chairman: Prof.B.Klausner			Chairman: Prof.O.S.Sogut		
		A Scheme for Carbon Dioxide Sequestration from the Atmosphere – Creation of Zones of Artificial Upwelling in Oceans and Seas	D.Ünsalan,K.Ünsalan		Turbulent Flow Computations For Slender Ships with Free Surface	Y.Özdemir, B.Barlas, S.Bayraktar	
		Greenhouse Gas Emission Assessment from Maritime Transportation for Turkey by MARKAL Model	E.Sulukan,M.Sağlam, U.Çelebi ,T. Uyar		CFD Analysis of Supersonic Combustion	A.C.Benim, K. Kuppa,P. Wollny,B. Pfeiffelmann, A. Al-Halbouni,H. Rahms, A.	
		Cooling System Design for a Fuel Cell Powered Pleasure Boat	Y.Arıkan,Ü.Güneş,F.Çelik		Prevention of Parametric Rolling Onboard Fishing Vessels	E.Uzunoglu,S.Silva, J.Mantari,C.G.Soares	
		Marine Pollution from Ships	G.Elmas				
12:15 - 13:30		Lunch Break					
ODITORIUM HALL	13:30 - 14:30	<b>MARINE ENGINES</b>		ODITORIUM HALL	<b>MARITIME TRANSPORTATION - B</b>		
		Chairman: Prof.O.Borat			Chairman: Prof.A.D.Alkan		
		Evaluation of FEM and SEA for Simulating Ship Noise and Vibrations	P.Zoet,C.Diyaroğlu, O. Turan		A Case Study: Investigation of the Most Cost-Effective Transportation Mode Between Istanbul and Denizli	E.Turan, F.Çelik, M.Dilek	
		Comparison of Diesel Engine and Miller Cycled Diesel Engine by Using Two Zone Combustion Model	G.Gonca,H.Kayadelen, A.Safa, B.Şahin, A.Parlak, Y.Üst		Investigation of Turkish Container Ports	A.Kükner, İ.Köleli	
		LBM Analysis of Heat and Fluid Flow	A.C.Benim, E.Aslan, A.Nahavandi, İ.Taymaz		Comparison of Marine and Land Transportation Emissions: Turkey Study	T. Coşgun, G. Kökkü'lünk, A. Yurtseven, S. İnce, İ.	
		Study of Impervious Bearings with Rotational Cuff	E.Karjalı,A.S.Karjalı		Oil Tanker Shipping in Turkey	G. Aydin, S.B.Çağlak, G. Alkan	
14:40 - 15:30		15:30 - 15:45 INT-NAM 2011 CLOSING CEREMONY					

## POSTER PRESENTATIONS

Numerical Simulation of Flow past a Cavity with Vortex Generators	S.Türkmen, D.Mylonas,N.Vardar	Practical Approaches for Design of 4 Bladed Wageningen B Series Propellers	S.Ekinci,F.Çelik,Y.Arıkan
Issues for Enhanced Optimization of Fishing Vessels using a Multi-Objective Genetic Algorithm Approach	M.Gammon	Failure Inspection of Composite Plates on High Speed Composite Crafts Caused by Water Impact	V.Alankaya,H.Şenyılmaz, F.Alarçın
Vector Autoregression Model for the Forecasting Freight Rates in the Dry Bulk Shipping Sector	E.Bulut	Energy Saving in Trawlers: Practical and Theoretical Approaches	G. Messina
Managing Imprecise Information in Concept Ship Design	G.Trincas	Foundations of Offshore Wind Energy Converters in Shallow and Deep Water	L.Dannenberg
Structural Optimization: LBR-5 Software and Application to a Mega Yacht	D.Motta, D.Boote, J.Caprace		

## SOCIAL PROGRAM

### GALA DINNER

- Yıldız Hisar Restaurant, Hisarustu / Mon 24.10.2011 at 19:00

### BOAT TOUR

- Place/Date/Time: KABATAS boat station / Tue 25.10.2011 at 17:00