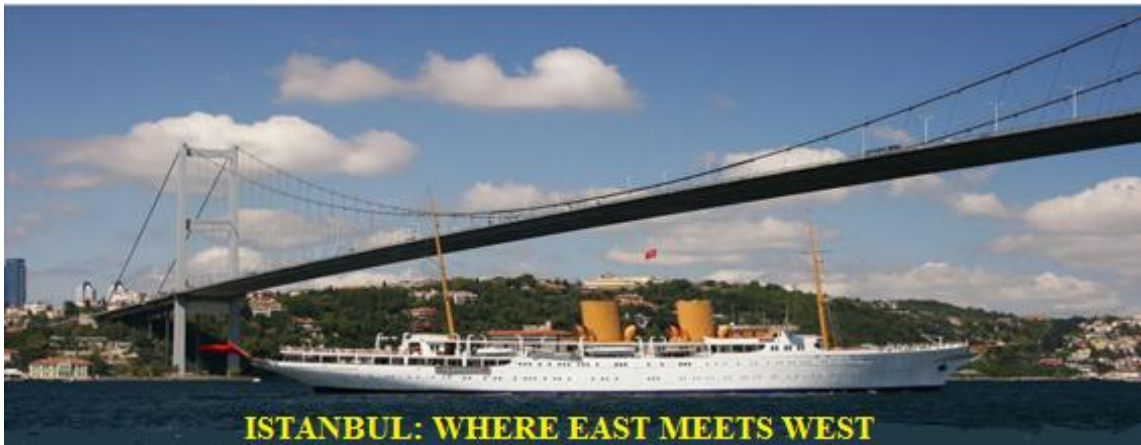




**THE FIRST GLOBAL CONFERENCE
ON INNOVATION IN MARINE TECHNOLOGY
AND THE FUTURE OF MARITIME TRANSPORTATION**



Date: November 24-26, 2010

**ISTANBUL TECHNICAL UNIVERSITY - MARITIME FACULTY
& UCTA THE CHAMBER OF MARINE ENGINEERS OF TURKEY**

Venue:

Suleyman Demirel Cultural Center

Istanbul Technical University Maslak Campus, Istanbul, Turkey

<http://www.itu.edu.tr/en>



CONFERENCE PROGRAMME

23 NOVEMBER 2010

**19.00-21.00 WELCOME RECEPTION AT SHERATON HOTEL
MASLAK-ISTANBUL**

24 NOVEMBER 2010

08.30-09.30 REGISTRATION

09.30-10.30 OPENING SPEECHES/CEREMONY

10.30-10.45 COFFEE BREAK

10.45-11.00 VIDEOVISION SHOW: ISTANBUL AND THE SEA

11.00-12.30 SESSION I – ISTANBUL: A HISTORICAL MARITIME CITY

(Simultaneous Translation Available)

**Chairs: Prof. Dr. İdris Bostan, Istanbul University, Turkey
& Prof. Dr. Kaori Komatsu, Waseda University, Japan**

Bir Liman Kenti Olarak İstanbul (Istanbul: A Historical Port City)

(Keynote Paper)

İdris Bostan; Istanbul University, Turkey

Osmanlı İmparatorluğu'nda Vapurculuk ve Milliyetçilik

(Nationalism and Shipping in the Ottoman Empire)

(Keynote Paper)

Kaori Komatsu; Waseda University, Japan

İstanbul'un Vapurları (Ferries of Istanbul)

Murat Koraltürk; Marmara University, Turkey

**The Invaluable Link between the Ottoman Maritime History and
the Evolution of the Modern International System**

Levent Kırval; Istanbul Technical University, Turkey



Istanbul and the Straits in the 1920s, as Seen through the Eyes of a Japanese Diplomat

Radomir Compel; Yokohama National University, Japan

**1550'lerde Akdeniz'de Osmanlı ve Denge Oyunları
(The Ottomans in the Mediterranean in 1550 and the Balance of Power Relations)**

Özlem Kumrular; Bahcesehir University, Turkey

12.30-14.00 LUNCH

14.00-15.30 SESSION II – GLOBAL MARITIME STRATEGIES

(Simultaneous Translation Available)

Chairs: Prof. Dr. Hercules Haralambides, Erasmus University
Rotterdam, Netherlands

& Asst. Prof. Dr. Levent Kırval, Istanbul Technical University,
Turkey

Keynote Speech: On the Forefront of Research in Maritime Economics
and Logistics (**Hercules Haralambides**)

**The Determining Factors on the Procurement of the Different
Customer Groups at Marinas: A Research on the Private and
Commercial Boat Owners**

Erdal Arlı; Kocaeli University, Turkey

Stakeholders' Satisfaction: Response to Global Excellence

Ralph L. Pador, Rolando A. Alimen, Victor B. Jaleco, Mario C. Sequi;
John B. Lacson Foundation Maritime University-Molo, Philippines

**Narrowing the Gulf between Shipboard and Shore Side
Management Moving from Compliance to Commitment**

Gregory Hanchrow; State University of New York, USA



The Manning Companies in the Philippines amidst the Global Financial Crisis

Lorna D. Gellada, Melchor M. Magramo, Teresita A. Paragon;

John B. Lacson Foundation Maritime University-Arevalo, Philippines

15.30-15.45 COFFEE BREAK

15.45-16.45 SESSION III – MARITIME TRANSPORTATION I

(Simultaneous Translation Available)

Chairs: Prof.Dr. Osman Kamil Sağ, Piri Reis University, Turkey
& **Assoc. Prof. Dr. Ender Aşyalı**, Dokuz Eylül University, Turkey

NO_x Emisyonlarının Azaltılmasında Yeni Bir Yöntem: Elektronik Kontrollü Su Buharı Enjeksiyonu (A New Method for Decreasing the NO_x Emissions: Electronically Controlled Vapor Injection)

Adnan Parlak; Yıldız Technical University, Turkey

Vezir Ayhan; Sakarya University, Turkey

Yasin Üst, Bahri Şahin; Yıldız Technical University, Turkey

İdris Cesur, Barış Boru; Sakarya University, Turkey

İzmir Limanı'nda Gemilerden Kaynaklanan Egzoz Emisyonları (Ship Originated Exhaust Emission in the Port of Izmir)

Halil Saraçoğlu, Alper Kılıç, Istanbul Technical University, Turkey

Trabzon Limanı'ndaki Ro-Ro Gemi Trafiğinin Çevresel Açından Etkisi (Environmental Impact of the Ro-Ro Traffic in the Port of Trabzon)

Ersan Başar; Karadeniz Technical University, Turkey

15.45-17.15 PARALLEL SESSION IV: OFFICERS OF THE 21ST CENTURY

Chairs: Assoc. Prof. Dr. Rashmi Jain, Stevens Institute of Technology, USA

& **Prof. Dr.Güldem Cerit**, Dokuz Eylül University, Turkey

Keynote Speech: (Rashmi Jain)



Measuring Maritime Student Expectations and Satisfaction through Library Performance Assessment at SUNY Maritime College

Constantia Constantinou; State University of New York, USA

The Complete 21st Century Officer

Quentin Cox; Southampton Solent University, UK

Academy and Industry Collaboration: Key to More Competent Officers?

Melchor M. Magramo, Geneva M. Eler, Lorna D. Gellada;

John B. Lacson Foundation Maritime University-Arevalo, Philippines

Comparative Balance Analysis between Ship Officers / Candidates and Rowing Athletes

Leyla Tavacıođlu, Güngör Görkem, Yılmaz Emel;

Istanbul Technical University, Turkey

International Ambassadors: The Role of the Humanities in Educating Officers for the 21st Century

Karen Markoe; State University of New York, USA

An Analysis on Career Path of Turkish Officers

Burak Köseođlu, Selçuk Nas; Dokuz Eylül University, Turkey

16.45-17.00

COFFEE BREAK

17.00-18.00

SESSION V – MARITIME TRANSPORTATION II

(Simultaneous Translation Available)

Chairs: Prof. Dr. Sezer Iğın & Dr. Ayşe Yılmaz

Istanbul Technical University, Turkey

Deniz Ulaştırmasının Güvenlik Boyutu: Deniz Haydutluğu Saldırıları ve Analizi (Security Dimension of Maritime Transportation: Piracy Attacks and Its Analysis)

Nur Jale Ece; Prime Ministry Privatization Administration, Turkey



Türkiye’de Yat İnşa Sanayi (Yachts Construction Industry in Turkey)

Muhsin Kadioğlu; Istanbul Technical University, Turkey

Denizci Eşlerinin Yaşam Mücadelesi Üzerine Nitel Bir Çalışma (A Qualitative Study on the Life Struggles of the Spouses of the Seafarers)

Tuğçe Yur, Selçuk Nas; Dokuz Eylul University, Turkey

Geminin Deniz Ticaret Hukuku’ndaki Yerine Yönelik Türk Ticaret Kanunu Tasarısı’ndaki Bazı Maddelerin Tahlili (Analysis of Some of the Amendments in the Draft Turkish Trade Law that Outlines the Status of a Ship in the Maritime Trade Law)

Sercan Erol; Karadeniz Technical University, Turkey

19.00 **OPENING DINNER – YTÜ Restaurant**

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09.30-11.00 **SESSION VI: SHIP-SHORE INTEGRATION**

Chairs: Prof. Dr. Nil Güler, Istanbul Technical University, Turkey
& **Assoc. Prof. Dr. Mustafa Altunç**, Near East University, North Cyprus

Intermodal Container Transport Solutions: A Case Study on Izmir Port

İhsan Arıcan Çakar; MİLGEM Project Office, Turkish Naval Forces
Nil Güler; Istanbul Technical University, Turkey

Port Site Selection and Rehabilitation Activities in Turkey

Ünal Özdemir, Abdulaziz Güneroğlu;
Karadeniz Technical University, Turkey

Business Continuity Improvement of Port Functions after a Severe Earthquake

Seiko Shirasaka, Yoshiki Ito, Eiki Kobayashi, Miki Nishio, Xinru Huang,
Kohnosuke Shiraishi, Yoshiaki Ohkami; KEIO University, Japan



Modelling Approaches of Sea-Side Port Capacity Estimation

Stefano Ricci, Cristiano Marinacci; “Sapienza” University of Rome, Italy

09.30-11.00

PARALLEL SESSION FOR THE MARITIME SECTOR REPRESENTATIVES

Chairs: C/Eng. Feramuz Aşkın, GEMİMO, Turkey

& Dr. Hisashi Yamamoto, Istanbul Technical University, Turkey

Fuel Saving Options in Design and Operation

Volker Bertram; Germanischer Lloyd, Germany

NYK Super Eco Ship 2030

Keiko Kosugi; NYK, Japan

Specification of Minimum Standards of Competence for Electro-Technical Officers

Ömür Karataş; GEMİMO / ARKAS, Turkey

Med-Tracking

Maurice Lee Van Suu; RMEI (Mediterranean Network for Engineering Schools and Technical Universities), France

Hydrogen Production Off Shore Structure (1st Award in EU Project-Visionary Concept for Vessels and Floating Structures)

Sabri Alkan, Hacı Bayram Baygeldi, Muzaffer Sarıkaya, Erhan Kayabaşı (Istanbul Technical University 2009 graduates), Turkey

11.00-11.15

COFFEE BREAK

11.15-12.45

SESSION VII: ENVIRONMENTAL PROTECTION AND THE MARITIME SECTOR

Chairs: Prof. Dr. Mehmet Karaca, Istanbul Technical University, Turkey

& Asst. Prof. Dr. Ersan Başar, Karadeniz Technical University, Turkey



A Study on the Use of the Refrigerant R723 In Marine Refrigerating Sector

Feiza Memet, Daniela Mitu; Constanta Maritime University, Romania

An Analytical Model for Minimizing GHG Emissions and Energy Consumption in Maritime Logistics Systems by Port and Network Choice

Ingar Bergh, Eirik Fernandez Cuesta; DNV Maritime (proNavis), Norway
Haakon Lindstad, Norwegian University of Science and Technology, Norway
Odd Torstein Morkve, DNV Maritime (proNavis), Norway

Making an Eco-efficient Choice for Controlling Fouling Growth on Your Vessel

Trevor Solomon; International Paint Ltd., UK

Technological Tools Synchronized for Engaging Urgent Environmental Issues

Marko Perkovic, Rick Harsch; University of Ljubljana, Slovenia
Eugene Drumachik; Transas Marine Black Sea, Turkey

Numerical Modeling and Field Investigations on Infra-gravity Water Waves Penetration into the Port

A.Najafi-Jilani; Islamic Azad University, Iran

12.45-14.00

LUNCH

14.00-15.30

SESSION VIII: KNOWLEDGE-BASED INNOVATION IN 21ST CENTURY AND THE MARITIME SECTOR

Chairs: Prof. Dr. Beom-Soo Hyun, Korea Maritime University, Korea

& Prof. Dr. Ertuğ Düzgüneş, Karadeniz Technical University, Turkey

Status and Activities of Underwater Vehicle Research Center in Korea (Keynote Paper)

Beom-Soo Hyun, Jong Rae Cho, Chun Ki Lee, Il Yong Bae;
Korea Maritime University, Korea



Improvement of Safety within the Marine Supply Chain M2M Technology on Sea

Michael Bochmann; University of Applied Science, Hochschule Emden/Leer, Germany

Delphi Forecasting in Shipping Industry: Performance and Validity

Okan Duru; Istanbul Technical University, Turkey
Emrah Bulut, Shigeru Yoshida; Kobe University, Japan

A Pioneering Hydrogen Fueled Cargo Ship

Yaqub M. Amani; State University of New York, USA

ConTracer: Container Security Device(CSD) based on Active RFID

Hyung Rim Choi, Chae Soo Kim, Soon Goo Hong, Kang Bae Lee, Joong Jo Shin, Jung Rock Shon, Young Sik Moon, Eun Kyu Lee;
Dong-A University, Korea
Yavuz Keçeli, Istanbul Technical University, Turkey

A Study on the One-Way Traffic Implementation in the Istanbul Strait

Y. Volkan Aydoğdu; Korea Maritime University, Korea
Cemil Yurtören; Istanbul Technical University, Turkey

15.30-15.45

COFFEE BREAK

15.45-17.15

SESSION IX: INNOVATIVE SHIP DESIGN, CONSTRUCTION TECHNOLOGIES AND NEW TECHNOLOGIES IN MARINE ENGINEERING

(SPECIAL SESSION IN MEMORY OF YUCEL ODABASI)

Chairs: Prof. Dr. Ali İhsan Aldoğan & Assoc. Prof. İsmail Hakkı Helvacıoğlu, Istanbul Technical University, Turkey



The Effect of Air Lubrication on Ship Resistance Reduction

Mustafa İnel, Istanbul Technical University & Turk Loydu, Turkey Serhan

Gökçay, Turk Loydu, Turkey

Şebnem Helvacıoğlu, Istanbul Technical University, Turkey

Increase of Efficiency of Using Fuel by Ship's Main Medium-speed Engines at Operation on Partial Loadings

Oleg Ginda, Nikolay Nikolaev, Evgeniy Khekert;

Admiral Ushakov Maritime State Academy, Russia

VISIONS European Student Competitions in Marine Technology

George Smyrnakis; WEGEMT, UK

George Politis; Newcastle University, UK

Effects of an Optimized Duct on Power Output of a Vertical Axis Hydro-Current Turbine

Mahmoud Alidadi, Sander Calisal; University of British Columbia, Canada

Main Engine and Turbochargers Operation Effectiveness Increase Based on Conformation of their Characteristics and Operation Factors

Nikolay I. Nikolaev, Novorossiysk Marine State Academy, Russia

Nikolay N. Zinenko, JSC NOVOSHIP, Russia

17.15-17.30

COFFEE BREAK

17.30-19.00

SESSION X: INFORMATION AND COMMUNICATION TECHNOLOGIES AND THE MARITIME SECTOR

Chairs: Prof. Dr. Bjorn Egil Asbjørnslett, Norwegian University of Science and Technology, Norway

& Dr. Tayfun Acarer, Information and Communications Technology Authority, Turkey

Keynote Speech: Marine System Design - From Transport System to Vessel (Bjorn Egil Asbjørnslett)



The Future of AIS in Marine Communication

Ejder Varol, Taner Akdeniz, Hasan Sütçüoğlu;
iDeal Technologies Inc., Turkey

Energy-based Descriptors for Transient Electromagnetic Radiation: Application to Ultra-wide Band Antennas

Razvan Tamas, George Caruntu;
Constanta Maritime University, Romania

Long Range Identification and Tracking of Ships (LRIT)

Esteban Pacha, Andy Fuller, Halil Ibrahim Keskin;
International Mobile Satellite Organization, UK

Development of Radar ARPA Simulator Software Reproducing an Actual Sea Area Situation

Nobukazu Wakabayashi, Hidenari Makino, Shigeaki Shiotani;
Kobe University, Japan

Long Range Identification and Tracking Implementation In Turkey

Nihat Oktay, Berra Şimşek Tosun;
Turksat Satellite Communications and Cable TV Operations AS, Turkey

19.00 GRAND DINNER (SHERATON HOTEL MASLAK-İSTANBUL)

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09.30-11.00 SESSION XI: SAFETY & SECURITY IN THE MARITIME SECTOR

Chairs: Prof. Dr. Shmuel Yahalom, State University of New York, USA

& Prof. Dr. Bahri Şahin, Yıldız Technical University, Turkey

Keynote Speech: (Shmuel Yahalom)



Comparative Analysis for the Selection of Hazardous Area in the Strait of Istanbul

Emrah Bulut; Kobe University, Japan

Okan Duru; Istanbul Technical University, Turkey

Y.Volkan Aydogdu; Korea Maritime University, Korea

Novel Approach to Assess Safety Concept of LNG Carriers for Loading/Unloading Operations

Saadet Kalender, Serdar Kum, Nil Güler;

Istanbul Technical University, Turkey

Maritime Technologies for Situation-dependent Manoeuvring Assistance in Safety-critical Situations

Michael Baldauf; World Maritime University, Sweden

K. Benedict, S. Fischer, M. Gluch; University of Wismar, Germany

J.-U. Schröder-Hinrichs; World Maritime University, Sweden

Crude Oil Exports through the Baku-Tbilisi-Ceyhan (BTC) and Kirkuk-Ceyhan Crude Oil Pipeline: The Role of Turkish Tanker Fleet

Barış Kuleyin, Güldem Cerit; Dokuz Eylul University, Turkey

A Risk Assessment of Maritime Transport of High Level Radioactive Wastes and Spent Fuel through Turkish Straits

Pelin Yılmaz Bolat; Istanbul Technical University, Turkey

Jin Yongxing; Shanghai Maritime University, China

09.30-11.00

PARALLEL SESSION XII: LEGAL FRAMEWORK FOR THE SEAS AND INTERNATIONAL MARITIME CONVENTIONS

Chairs: Dr. Z. Oya Özçayır, Associate Professor of Maritime Law, Turkey

& Prof. Dr. Fevzi Erdoğan, Istanbul University, Turkey

Keynote Speech: International Maritime Conventions: Adoption vs Implementation (**Z. Oya Özçayır**)



Legal Critiques on Ship Recycling Activities and the Hong Kong Convention

Onur Sabri Durak; Istanbul Technical University, Turkey

Climate Change and the Maritime Industry: An Evaluation of the International Legal Framework for Climate Change and Its Impacts on Maritime Industry

Derya Aydın Okur; Marmara University, Turkey

New Roles and Responsibilities of Flag States and Port States in the Context of the Maritime Labour Convention 2006

Onur Sabri Durak; Hakan Muran; Istanbul Technical University, Turkey

Comparison of Maritime Piracy in Southeast Asia with East Africa and Applicability of the Counter-Piracy Measures Taken in Asia to East Africa

M. Uğur BOZKURT, Turkish War Colleges Strategic Research Institute (SAREN)

11.00-11.15	COFFEE BREAK
11.15-12.45	CLOSING SESSION
12.45-14.00	LUNCH
14.00	ISTANBUL CITY TOUR
16.00	BOSPHORUS CRUISE