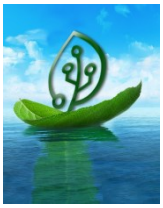
2nd INTERNATIONAL CONGRESS ON SHIP AND MARINE TECHNOLOGY

"Green and Intelligent Maritime Industry"

Inspire, Innovate & Develop for the Benefit of Sea

(GMO-SHIPMAR 2021)

Yıldız Technical University Auditorium, Besiktas, Istanbul
16-17-18 September 2021



Program

Turkey Time: TRT Time Zone (Central European Time : CET)

16.09.2021 Thursday

10.00 - 12:30 (CET 09:00-11:30) (physical&online)

OPENING CEREMONY

hosted by Yildiz Technical University, Auditorium Main Hall, Besiktas, Istanbul

Prof.Dr.Ahmet Dursun ALKAN *Congress Chairman*

Salih BOSTANCI *Chairman of The Turkish Chamber of Naval Architects and Marine Engineers*

Başaran BAYRAK *Board Member of the Turkish İMEAK Turkish Chamber of Shipping*

Salih Zeki ÇAKIR *President of The Assembly of İMEAK Turkish Chamber of Shipping*

Prof.Dr.Tamer YILMAZ *Rector of Yıldız Technical University*

KEYNOTE LECTURES

- **Prof. Carlos GUEDES SOARES**, "Developments in Offshore Renewable Energy", Centre for Marine Technology and Ocean Engineering (CENTEC), Instituto Superior Técnico, Universidade de Lisboa, Lisbon, Portugal.
- **Prof. Mehmet ATLAR**, "A Bold Retrofit Challenge for GHG Emission for Turkish Maritime Industry - H2020 GATERS Project", Dept. of Naval Architecture, Marine and Ocean Engineering (NAOME), The University of Strathclyde, Glasgow, UK.

16.09.2021 Thursday 13:00 - 14:20 (**CET 12:00-13:20**) (online)

Paper Presentations

16.09.2021 Thursday 14:30 - 15:30 (**CET 13:30 - 14:30**) (online)

Special Session A: **Innovative Shipbuilding in Turkey**

Moderated by the Organizing Committee members

- **Turkish Shipbuilding Overview** by Mehtap Karahallı Özdemir, Turkish Shipbuilders' Association (GISBIR) Istanbul
- **Innovative New Ship Building** by Burak Mursaloğlu, Cemre Shipyard, Yalova
- **The introduction of the RESURGAM Project : Robotic survey, repair and agile manufacturing - Friction Stir Welding technology for the shipbuilding industry** by Stephen Carter, The Welding Institute (TWI), UK

16.09.2021 Thursday 15.40 - 17:00 (**CET 14:40 - 16:00**) (physical&online)

Special Session B: **Advances in Experimental Research towards Innovation**

- Location: YTU Hydrodynamic Research Laboratory, Davutpasa

Speakers:

Claudio PENSA / Fabio DE LUCA – Professors of Architettura Navale, Dipartimento di Ingegneria Indusriale, Universita di Napoli Federico II, Naples, Italy

Emre UZUNOĞLU – PhD, CENTEC, Instituto Superior Técnico, Univ. de Lisboa, Lisbon, Portugal

Felipe VITTORI - Offshore Wind Engineer, Centro Nacional de Energías Renovables (CENER) Sarriguren, Spain

Mehmet ATLAR / Saishuai DAI / Yigit Kemal DEMIREL – Professors at the Dept. of Naval Architecture, Marine and Ocean Engineering (NAOME), The University of Strathclyde, Glasgow, UK

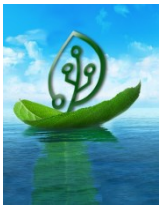
Levent KAYDIHAN – PhD, Hydro-Structural Specialist at MARIN (Maritime Research Institute Netherlands), The Netherlands

Serdar BEJI – Professor at the Faculty of Naval Architecture and Ocean Engineering, Istanbul Technical University, Istanbul, Turkey

Hosted by YTU Professors/Researchers - Naval Architecture and Maritime Faculty, and Faculty of Civil Engineering of Yıldız Technical University, Istanbul, Turkey

16.09.2021 Thursday 17:15 - 20:15 (**CET 16:15 - 19:15**) (online)

Paper Presentations



17.09.2021 Friday

17.09.2021 Friday 09.30 - 10:30 (**CET 08:30 - 09:30**) (online)

Special Session C: **Supports to RTD and Innovation**

- Yılmaz Burak KAYA, The Scientific and Technological Research Council of Turkey, Technology and Innovation Grant Programs Directorate (TÜBİTAK-TEYDEB), Ankara
- Cem HÜROĞLU, Board Member, Turkish Ship, Yacht & Marine Services Exporters Association, Istanbul
- Prof.Dr.Ahmet Dursun ALKAN, Naval Architecture and Maritime Faculty, Yıldız Technical University, Istanbul

17.09.2021 Friday 10:45 - 13:05 (**CET 09:45 - 12:05**) (online)

Paper Presentations

17.09.2021 Friday 13:30 - 14:15 (**CET 12:30 - 13:15**) (online)

Special Session D: **Capabilities and Advances of Trabzon province for Maritime Industries**

Moderated by Dr. Hasan Ölmez, Karadeniz Technical University, Surmene Faculty of Marine Sciences, Dept. of Marine Engineering Operations, Trabzon

- Mr. Kenan ŞENGÜN, Şengün Ship Industry – Cooperative Association of Steel&Wooden Ship&Boat and Yacht manufacturers, Trabzon (in Turkish and English)

Title: The Historical Development, Current Capabilities and Targets of Trabzon Shipbuilding Industry

- Mr. Serkan GÜRLER, AKANA Marine Technologies, Trabzon

Title: Safety at Sea - Let's do it for life in Trabzon.

17.09.2021 Friday 14:20 - 15:15 (**CET 13:20 - 14:15**) (Online)

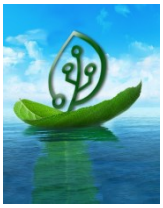
Special Session E: **Design-Implement-Operate for Green and Intelligent Maritime**

Hosted by the members of the Organizing Committee

- Turkey's First Armed Unmanned Surface Vessel "ULAQ" - Oğuzhan Pehlivanlı, Ares Shipyard Inc., Antalya.
- The world's first Electric and Zero Emission in-port tugboat - The ZEETUG Project - NAVTEK Deniz Teknolojisi A.Ş., Istanbul

17.09.2021 Friday 15:20 - 17:50 (**CET 14:20 - 16:50**) (online)

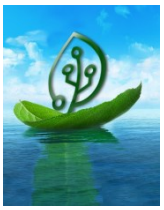
Paper Presentations



18.09.2021 Saturday

10.00 - 12:30 (CET 09:00 - 11:30) (online)

Paper Presentations



13:30 - 18:50 (CET 12:30 - 17:50) (onlin e)

Paper Presentations

18:50 - 19:10 (CET 17:50 - 18:10) (online)

Closing Remarks by The Organizing Committee

YouTube TR Live

Please watch all Live Streaming broadcast on the following YouTube channel:
Tüm canlı yayınlara ulaşabileceğiniz YouTube kanalı:
https://www.youtube.com/channel/UCGqORGwzzpnaITgNDZ0sLaQ

ABOUT THE CONGRESS

The Publication Commission of The Turkish Chamber of Naval Architects and Marine Engineers (GMO) is organizing the 2nd INTERNATIONAL CONGRESS ON SHIP AND MARINE TECHNOLOGY (GMO-SHIPMAR 2021) to be held on 16-17 September 2021, Tuzla, Istanbul. GMO-SHIPMAR 2021 covers all aspects related to the field of Naval Architecture, Ocean and Marine Engineering. The papers involving innovative studies will be appreciated.

GMO-SHIPMAR 2021 will be honored to have paper submissions from scientists, researchers, professionals and industry representatives. During the congress paper presentations, workshops and special sessions will bw held with the strong support of the maritime industry and research institutions. All accepted papers will be published in a proceedings, and some papers will be published in scientific journals based on the selection of the Scientific Committee of the congress.

To facilitate the participants' mobility and participation, all the events of the congress will be broadcast live streaming.

Congress languages are English and Turkish.

Suitable topics for the congress include, but are not limited to, the following:

- Green&Sustainable Maritime,
- Offshore Technologies,
- Marine Design and Safety,
- Safety and Risk Management,
- Human Factor Engineering,
- Ship Resistance,
- Alternative Fuels,
- Marine Renewable Energy,
- Offshore Wind Energy,
- Ocean Energy,
- Energy Efficiency,
- Decommissioning and Recycling,
- Underwater Technology and Acoustics,

Drag Reduction & Energy Saving Technologies,
Fouling/Coating Hydrodynamics,
Ship Stability,
Advanced Materials,
Marine Structures,
Fluid and Structure Interactions,
Propulsion Systems,
Noise and Vibration,
Bunkering,
Arctic Engineering,
Marine Electrical Equipments,
Innovation,
Artificial Intelligence,
Unmanned Vehicles,
Big Data Analytics,
Small Crafts and Yachts,
Multimodal Transportation,
Ship Finance.

Submission link for summary and full papers:

https://easychair.org/conferences/?conf=gmoshipmar2021

Please refer to http://www.gmoshipmar.org for more information. Also refer to gmoshipmar2021@gmo.org.tr for any query.

DEADLINES :

Workshop and/or Special Session Proposal	: ~~06.06.2021~~
Full or short paper and Poster Abstract	: ~~01.06.2021~~
Full paper submission	: ~~06.06.2021~~
Notification of fullpapers	: ~~25.06.2021~~
Venue*	: 16-17.09.2021

*) Hosted by Yıldız Technical University, Oditorium Hall, Besiktas, Istanbul (Google map or http://sehirharitasi.ibb.gov.tr). The congress sessions will be conducted face-to-face and online. All congress events will be broadcast live on the internet.

Full paper sample:
http://www.gmoshipmar.org/GMOSHIPMAR2021/sample_paper.pdf

Presentation paper template:
http://www.gmoshipmar.org/GMOSHIPMAR2021/template_presentation.pptx

Web page: www.gmoshipmar.org
E-mail: gmoshipmar2021@gmo.org.tr
Twitter: twitter.com/2021Gmo

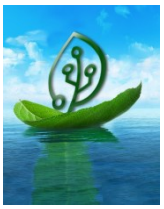
2. ULUSLARARASI GEMİ VE DENİZ TEKNOLOJİSİ KONGRESİ

"Yeşil ve Akıllı Denizcilik Endüstrisi"

Denizin Geleceği: Tasarım – Yenilik - Gelişim

(GMO-SHIPMAR 2021)

Yıldız Teknik Üniversitesi, Oditoryum, Beşiktaş, İstanbul
16-17-18 Eylül 2021



Program

Türkiye saati (CET: Orta Avrupa Saati)

16 Eylül 2021 Perşembe

10.00 - 12:30 (**CET 09:00-11:30**) (yüzyüze ve canlı yayın)

AÇILIŞ TÖRENİ

Yıldız Teknik Üniversitesi, Oditoryum, Beşiktaş, İstanbul

Prof. Dr. Ahmet Dursun ALKAN	*Kongre Başkanı*
Salih BOSTANCI	*TMMOB Gemi Mühendisleri Odası Yönetim Kurulu Başkanı*
Başaran BAYRAK	*İMEAK Deniz Ticaret Odası Yönetim Kurulu Üyesi*
Salih Zeki ÇAKIR	*İMEAK Deniz Ticaret Odası Meclis Başkanı*
Prof.Dr.Tamer YILMAZ	*Yıldız Teknik Üniversitesi Rektörü*

DAVETLİ BİLDİRİ SUNUMLARI

Prof.Dr. Carlos GUEDES SOARES, "Developments in Offshore Renewable Energy" (Açık Deniz Yenilenebilir Enerji Alanında Gelişmeler), Centro de Engenharia e Tecnologia Naval e Oceânica (CENTEC), University of Lisbon, Portugal.

Prof.Dr. Mehmet ATLAR, "A Bold Retrofit Challenge for GHG Emission for Turkish Maritime Industry - H2020 GATERS Project" (Türk Denizcilik Endüstrisi Sera Gazı Emisyonları için Cesur bir Yenileme Mücadelesi - Ufuk 2020 GATERS Projesi), Dept. of Naval Architecture, Marine and Ocean Engineering (NAOME), The University of Strathclyde, Glasgow, UK.

16 Eylül 2021 Perşembe 13:00 - 14:20 (**CET 12:00-13:20**) (çevrimiçi / canlı yayın)

Bildiri Sunumları

16 Eylül 2021 Perşembe 14:30 - 15:30 (**CET 13:30 - 14:30**) (çevrimiçi / canlı yayın)

Özel Oturum A: Türkiye'de Yenilikçi Gemi İnşaatı

Düzenleme Kurulu üyeleri evsahipliğinde:

- **Türkiye'de Gemi İnşaatına Bakış**, Mehtap KARAHALLI ÖZDEMİR – Gemi İnşa Sanayicileri Birliği, (GİSBİR), Tuzla,İstanbul
- **Yenilikçi Yeni Gemi İnşaatı**, Burak Mursaloğlu, Cemre Tersanesi, Yalova, Türkiye
- RESURGAM Projesi Tanıtımı: Robotlu sörvey, tamir ve çevik üretim - Gemi inşa sanayiinde Sürtünme Karıştırma Kaynağı teknolojisi, Kaynak Müh. Stephen Carter, The Welding Institute (TWI), İngiltere.

16 Eylül 2021 Perşembe 15.40 - 17:00 (**CET 14:40 - 16:00**) (laboratuvarda canlı yayın)

Özel Oturum B: Yenilikçi Yönleri ile İleri Deneysel Araştırma Teknikleri

- YTÜ Hidrodinamik Araştırma Laboratuvarı

YTÜ Gemi İnşaatı ve Denizcilik Fakültesi ile **İnşaat Fakültesi** öğretim üyeleri evsahipliğinde

Panel katılımcıları:

Prof.Claudio PENSA ve **Prof.Fabio DE LUCA**, Università di Napoli Federico II, Napoli, İtalya.

Dr.Emre UZUNOĞLU - CENTEC, Instituto Superior Técnico, Univ. de Lisboa, Lizbon, Portekiz.

Müh.Felipe VITTORI - Centro Nacional de Energías Renovables (CENER) Sarriguren, İspanya.

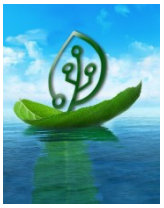
Prof.Mehmet ATLAR, Dr.Saishuai DAI ve **Assoc.Prof.Yiğit Kemal DEMİREL** - Dept. of Naval Architecture, Marine and Ocean Engineering (NAOME), The University of Strathclyde, Glasgow, UK

Dr.Levent KAYDIHAN – Akışkan-yapı Etkileşimi Uzmanı, Marine Research Institute Netherlands - MARIN, Hollanda

Prof.Serdar BEJİ – Gemi İnşaatı ve Deniz Bilimleri Fakültesi, İstanbul Teknik Üniversitesi, İstanbul.

16 Eylül 2021 Perşembe 17:15 - 20:15 (**CET 16:15 - 19:15**) (çevrimiçi / canlı yayın)

Bildiri sunumları



17 Eylül 2021 Cuma

09.30 - 10:30 (CET 08:30 - 09:30) (fiziksel oturum /canlı yayın)

Özel Oturum C: **Supports to RTD and Innovation**

- Yılmaz Burak KAYA, Türkiye Bilimsel ve Teknolojik Araştırma Kurumu - Teknoloji ve Yenilik Destek Programları Başkanlığı (TÜBİTAK - TEYDEB), Ankara
- Cem HÜROĞLU, Yönetim Kurulu Üyesi, Gemi, Yat ve Hizmetleri İhracatçılar Birliği, İstanbul
- Prof.Dr. Ahmet Dursun ALKAN, Gemi İnşaatı ve Denizcilik Fakültesi, Yıldız Teknik Üniversitesi, İstanbul

17 Eylül 2021 Cuma 10.45 - 12.50 (CET 09:45 - 11:50) (çevrimiçi/canlı yayın)

Bildiri sunumları

17 Eylül 2021 Cuma 13:30 - 14:15 (CET 12:30 - 13:15) (çevrimiçi/canlı yayın)

Özel Oturum D: **Trabzon'un Denizcilik Endüstrisindeki Potansiyel ve Yetkinlikleri**

Oturum yöneticisi: Dr.Öğr.Üyesi Hasan ÖLMEZ, Karadeniz Teknik Üniversitesi, Sürmene Deniz Bilimleri Fakültesi, Gemi Makine İşletme Mühendisliği Bölümü, Trabzon

- Kenan ŞENGÜN, Şengün Gemi Sanayi / Sac Gemi, Ahşap Tekne ve Kotra İmalatçıları Küçük Sanat Kooperatifi, Trabzon (Türkçe)
  Sunum: **Trabzon Gemi İnşa Sanayiinin tarihi gelişimi, mevcut kabiliyetleri ve hedefleri.**
- Serkan GÜRLER, AKANA Deniz Deniz Teknolojileri A.Ş., Trabzon
  Sunum: **Denizde Can Emniyeti - Trabzon'da bunu hayat için yapalım.**

17 Eylül 2021 Cuma 14:20 - 15:15 (CET 13:20 - 14:15) (çevrimiçi/canlı yayın)

Özel Oturum E: **Yeşil ve Akıllı Denizcilik için Tasarla-Üret-İşlet**

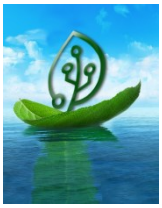
Oturum Kongre Düzenleme Kurulu evsahipliğinde gerçekleştirilecektir.

- **Türkiye'nin İlk Silahlı İnsansız Deniz Aracı "ULAQ"** - Oğuzhan Pehlivanlı, Ares Tersanesi, Antalya.

- **Dünyanın ilk Elektrikli ve Sıfır Emisyonlu Liman içi romörkörü - ZEETUG Projesi**
  NAVTEK Deniz Teknolojisi A.Ş., İstanbul

17 Eylül 2021 Cuma 15:20 - 17:50 (CET 14:20 - 16:50) (çevrimiçi/canlı yayın)

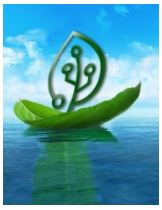
Bildiri sunumları



18.09.2021 Cumartesi

10.00 - 12:30 (CET 09:00 - 11:30) (çevrimiçi/canlı yayın)

Bildiri sunumları



13:30 - 18:50 (CET 12:30 - 17:50) (çevrimiçi/canlı yayın)

Bildiri sunumları

18:50 - 19:10 (CET 17:50 - 18:10) (çevrimiçi/canlı yayın)

Düzenleme Kurulu Üyeleri tarafından Kapanış Oturumu

YouTube TR Live

Please watch all Live Streaming broadcast on the following YouTube channel:
Tüm canlı yayınlara ulaşabileceğiniz YouTube kanalı:
https://www.youtube.com/channel/UCGqORGwzzpnaITgNDZ0sLaQ

KONGRE HAKKINDA

Gemi Mühendisleri Odası'nın (GMO), ülkemizde ve yurtdışında görev yapan akademisyenlerden oluşan Yayın Komisyonu tarafından, 2. Uluslararası Gemi ve Deniz Teknolojisi Kongresi (2nd International Congress on Ship and Marine Technology, GMO-SHIPMAR 2021, ww.gmoshipmar.org) "Yeşil ve Akıllı Denizcilik Endüstrisi" temasında 16-17 Eylül 2021 tarihlerinde İstanbul'da düzenlenecektir. Kongre, gemi inşaatı ve gemi makineleri, deniz teknolojisi ve tüm yönleri ile denizcilik endüstrisi çalışma alanlarını kapsamaktadır.

Ana kongre etkinlikleri oturumlar şeklinde bildiri sunumları, özel oturumlar ve çalıştaylardan oluşacaktır. Bu kapsamda üniversiteler, teknoparklar, kamu kuruluşları, denizcilik endüstrisi ve uzman kişiler tarafından özel oturumların kurulması ve yönetilmesi arzulanmaktadır. Kongre faaliyetleri hem yüz yüze hem de uzaktan çevrimiçi yapılması planlanmaktadır.

Kongremize "Yeşil ve Akıllı Denizcilik Endüstrisi" tema kapsamında çalışmalar ve dinleyici olarak katılım sağlanması GMO-SHIPMAR 2021'e güç katacaktır.

Kongre dilleri Türkçe ve İngilizcedir.

Kongremize konu olan çalışma başlıkları aşağıda sunulmuştur:

Yeşil ve Sürdürülebilir Denizcilik
Açık-deniz Teknolojileri,
Denizde Tasarım ve Emniyet,
Emniyet ve Risk Yönetimi,
İnsan Faktörleri Mühendisliği,
Gemi Direnci,
Direnç Azaltma ve Enerji Tasarruf Teknolojileri,
Kirlenme/Kaplama Hidrodinamiği,
Gemi Stabilitesi,
İleri Malzemeler,
Deniz Yapıları,
Akışkan ve Yapı Etkileşimi,
Sevk Sistemleri,
Gürültü ve Titreşim,
Yakıt İşletmeciliği,
Alternatif Yakıtlar
Deniz Yenilebilir Enerji,
Açık-deniz Rüzgâr Enerjisi
Okyanus Enerji,
Enerji Verimliliği,
Kullanımdan Çıkarma ve Geridönüşüm
Su-altı Teknolojisi ve Akustik,
Kutup (Buzul) Mühendisliği,
Deniz Elektrik Donanımları,
Yapay Zeka,
Yenilikçilik,
İnsansız Araçlar,
Büyük Veri Analizi,
Küçük Tekneler ve Yatlar,
Çok Modlu Taşımacılık,
Gemi Finansmanı.

Özet ve tam metin bildiri kayıtları aşağıdaki adresten yapılmaktadır.

https://easychair.org/conferences/?conf=gmoshipmar2021

Kongre sitemiz: http://www.gmoshipmar.org
E-posta adresimiz: gmoshipmar2021@gmo.org.tr

SON TARİHLER:

Çalıştay ve Özel Oturum Önerileri	: ~~06.06.2021~~
Tam metin, özet veya poster bildiri gönderimleri	: ~~01.06.2021~~
Tam metin Bildiri kayıt	: ~~06.06.2021~~
Tam metin bildiri kabul bildirimleri	: ~~25.06.2021~~
Kongre oturumları	: 16-17.09.2021

Kongre oturumları Yıldız Teknik Üniversitesi evsahipliğinde yüzyüze ve çevrimiçi icra edilecektir. Tüm kongre etkinlikleri internet üzerinden canlı olarak yayınlanacaktır. (Google map ve http://sehirharitasi.ibb.gov.tr)

Tam metin bildiri örneği :
http://www.gmoshipmar.org/GMOSHIPMAR2021/sample_paper.pdf

Bildiri sunum şablonu / Presentation paper template:
http://www.gmoshipmar.org/GMOSHIPMAR2021/template_presentation.pptx

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E-mail: gmoshipmar2021@gmo.org.tr
Twitter: twitter.com/2021Gmo

COMMITTEES

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Congress Vice-Chairs

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Dr.Hasan ÖLMEZ

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Assoc.Prof.Yiğit Kemal DEMİREL
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Dr.Emre UZUNOĞLU
Dr.Erdinç AÇIKEL
Dr.Erhan AKSU
Dr.Ersegun Deniz GEDİKLİ
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Dr.Serkan TÜRKMEN
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Congress Secretary

Dr. Levent BİLGİLİ
Tuğba AKTAŞ

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Prof. Adrian BEJAN, USA
Prof. Ahmet Cemal DİNÇER, Turkey
Prof. Ahmet Dursun ALKAN, Turkey
Prof. Ahmet ERGİN, Turkey
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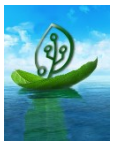

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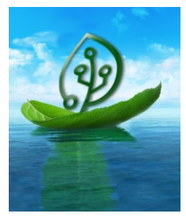

01:00

Paper ID (number)	Authors	Paper Title	Session Subject	Session Period	**Turkey Time(TRT)**	Date	Language of presentation	Central European Time(CET)
Co-Chair: Assist.Prof.Dr.Burak YILDIZ - Assist.Prof.Dr. Ahmet YURTSEVEN								
55	Ivana Jovanović, Nikola Vladimir, Maja Perčić and Marija Koričan	A study into the Economic Viability of Autonomous Shipping: A Case Study of a 9,400 TEU Container Vessel	DESIGN-1	**16-1**	**13:00**	**16 Sept 2021**	EN	12:00
56	Marija Koričan, Nikola Vladimir, Loukia Prentza, Eirini-Asimina Stamatopoulou and Nikolaos P. Ventikos	Development of an Early Warning System for Marine Pollution in Aquaculture Farms – Interreg ADRION project SEAVIEWS	DESIGN-1	**16-1**	**13:15**	**16 Sept 2021**	EN	12:15
75	Mitchell G. Borg, Claire DeMarco Muscat-Fenech, Tonio Sant, Simon Mizzi, Yigit Demirel, Massimo Figari and Kurt Mizzi	VENTuRE - A Virtual and physical ExperimeNtal Towing centre for the design of eneRgy Efficient sea-faring vessels - an H2020 Project	ENERGY-EFFICIENCY	**16-1**	**13:30**	**16 Sept 2021**	EN	12:30
67	Maja Perčić, Nikola Vladimir, Ivana Jovanović and Marija Koričan	Environmental Analysis of Methanol as an Alternative Marine Fuel	ALTERNATIVE FUELS	**16-1**	**13:45**	**16 Sept 2021**	EN	12:45
(Break for Special Sessions)								
Co-Chair: Prof.Selda OTERKUS - Assist.Prof.Dr.Dursun Murat SEKBAN								
73	Lina İrtegün and İsmail Bayer	How to Determine the Mechanical Properties of Laminated Composite Plates?	MATERIALS	**16-2**	**17:15**	**16 Sept 2021**	EN	16:15
52	Tolga Berkay Şirin and Alper Kılıç	The Importance of Proper Material Selection For Boat Building	MATERIALS	**16-2**	**17:30**	**16 Sept 2021**	EN	16:30
51	İrfan Çavuş, Muhammed Umar Bayer and Turgay Köroğlu	Performing Exergy Analysis on a Marine Engine with Waste Heat Recovery Systems to Increase Fuel Consumption Efficiency	MATERIALS	**16-2**	**17:45**	**16 Sept 2021**	EN	16:45
39	Achoyamen Ogbeifun, Selda Oterkus, Julia Race, Harit Naik, Dakshina Moorthy, Subrata Bhowmik and Julie Ingram	Investigating Soil Suction Impact on Steel Catenary Touch Down Zone Fatigue Response in Pre-Trench Conditions	MATERIALS	**16-2**	**18:00**	**16 Sept 2021**	EN	17:00
38	Achoyamen Ogbeifun, Selda Oterkus, Julia Race, Harit Naik, Dakshina Moorthy, Subrata Bhowmik and Julie Ingram	Numerical Factors Influencing Pre-Trench Modelling Using the Simulation Stage Based Pre-Trenching Technique	MATERIALS	**16-2**	**18:15**	**16 Sept 2021**	EN	17:15
37	Achoyamen Ogbeifun, Selda Oterkus, Julia Race, Harit Naik, Dakshina Moorthy, Subrata Bhowmik and Julie Ingram	Investigating Pre-Trench Impact on the Combined Load Response of Steel Catenary Riser Touch Down Zone	MATERIALS	**16-2**	**18:30**	**16 Sept 2021**	EN	17:30
(Break 15 min)								
Co-Chair: Assoc.Prof.Dr.Devrim Bülent DANIŞMAN								
12	Tahsin Tezdogan and Yujia Wei	A CFD Study of the Behaviour of a Crew Transfer Vessel in Head Seas using OpenFOAM	CFD-1	**16-2**	**19:00**	**16 Sept 2021**	EN	18:00
15	Alper Ölmez and Ferdi Çakıcı	Development of a Quick and Efficient Time-Domain Ship Motion Code	CFD-1	**16-2**	**19:15**	**16 Sept 2021**	EN	18:15
20	Uğur Fidan, Ali Doğrul and Fahri Çelik	A Numerical Study on Ship to Ship Interaction in Different Depths	CFD-1	**16-2**	**19:45**	**16 Sept 2021**	EN	18:45
54	Burak Göksu, Okan Gök, Kadir Emrah Erginer, Ali Can Takinacı and Aytunç Erek	Performance Prediction of Model Propellers on Two Different Commercial CFD Solvers	CFD-1	**16-2**	**20:00**	**16 Sept 2021**	EN	19:00
Co-Chair: Assoc.Prof.Dr.Yiğit Kemal DEMİREL - Prof. Dr. Ahmet Dursun ALKAN								
78	Alperen Sari, Egemen Sulukan, Doğuş Özkan and Tanay Sıdkı Uyar	An Overview on on-board Energy System Analysis and Modelling Practices in Turkey	ENERGY-EFFICIENCY	**17-1**	**10:45**	**17 Sept 2021**	EN	09:45
53	Kenan Yiğit	An Examination of Optimal Operating Schedule of Ship Generators	ENERGY-EFFICIENCY	**17-1**	**11:00**	**17 Sept 2021**	EN	10:00
42	Soonseok Song, Claire De Marco Muscat-Fenech and Yigit Kemal Demirel	Economic and Environmental Impacts of Antifouling Coatings Used On the Fishing Boats In Turkey	ENERGY-EFFICIENCY	**17-1**	**11:15**	**17 Sept 2021**	EN	10:15
24	Köksal Çolak, Hasan Ölmez, Betül Saraç and Teoman Ayhan	Gemi Ana Makine Ön Isıtmasında Dizel Jeneratör Egzoz Gazları Kullanımının Enerji Tasarrufuna Etkisinin Termodinamik Analizi	ENERGY-EFFICIENCY	**17-1**	**11:30**	**17 Sept 2021**	TR	10:30
(Break 5 min)								
Co-Chair: Dr. Emre Uzunoglu - Assoc.Prof.Dr.Elif OGUZ								
76	Emre Uzunoglu, Elif Oguz and C Guedes Soares	An Overview of Platform Types Used in Floating Wind Energy	RENEWABLE ENERGY	**17-1**	**11:50**	**17 Sept 2021**	EN	10:50
74	Diane Scicluna, Claire De Marco Muscat Fenech, Tonio Sant, Giuliano Vernengo and Yigit Kemal Demirel	A Review of Floating Offshore Wind Turbine Technologies	RENEWABLE ENERGY	**17-1**	**12:05**	**17 Sept 2021**	EN	11:05
77	Muhammed Uçar, Emre Uzunoğlu and Elif Oğuz	Comparison and Evaluation of Open-Source Panel Method Codes against Validated Data	RENEWABLE ENERGY	**17-1**	**12:20**	**17 Sept 2021**	EN	11:20
30	Erhan Aksu	Fotovoltaik Sistemlerin Gemilerde ve Yüzer Yapilarda Kullanimi	RENEWABLE ENERGY	**17-1**	**12:35**	**17 Sept 2021**	TR	11:35
14	Ferudun Keskin	Türkiye Denizlerine Uygun Dalga Enerjisi Dönüşüm Sistemlerinin Belirlenmesi Üzerine Yapılan bir Çalıştayın Sonuçlarının Değerlendirmesi	RENEWABLE ENERGY	**17-1**	**12:50**	**17 Sept 2021**	TR	11:50
(Break for Lunch and Special Sessions)								

Co-Chair: Assist.Prof.Dr.Ersegün Deniz GEDİKLİ - Assist.Prof.Dr.Hasan ÖLMEZ								
58	Roberto Ravenna, Soonseok Song, Weichao Shi, Tonio Sant, Claire De Marco Muscat-Fenech and Yigit Kemal Demirel	CFD Analysis of the Effect of Heterogeneous Hull Roughness on Ship Resistance	CFD-2	**17-2**	**15:20**	**17 Sept 2021**	EN	14:20
66	Mehmet Salih Karaalioglu and Sakir Bal	Numerical Analysis of Cavitating Flows Around Axisymmetric Bodies by OpenFOAM	CFD-2	**17-2**	**15:35**	**17 Sept 2021**	EN	14:35
4	Bülent İbrahim Turan, Mehmet Akman and Tansu Özbey	Design Comparison of Bodrum Gulets and Tirhandils	DESIGN-2	**17-2**	**15:50**	**17 Sept 2021**	EN	14:50
64	Uğur Can and Şakir Bal	Nominal Wake Fraction of a Semi-Displacement Type High-Speed Vessel at Full Scale	DESIGN-2	**17-2**	**16:05**	**17 Sept 2021**	EN	15:05
70	Halit Nebi Gürsoy	Shape Feature Extraction by Medial Axis Transform for Automated Finite Element Mesh Generation	DESIGN-2	**17-2**	**16:20**	**17 Sept 2021**	EN	15:20
Co-Chair: Prof.Dr. Hüseyin YILMAZ - Assist.Prof.Dr.Ferdi ÇAKICI								
6	Dursun Saral and Ercan Köse	Türkiye'de Balıkçı Gemileri Üzerine Yapılan Akademik Çalışmalar	DESIGN-2	**17-2**	**16:35**	**17 Sept 2021**	TR	15:35
26	Ömer Sinan Şahin, Emre Kahramanoglu, Ferdi Çakıcı and Emre Pesman	Kayıcı Teknelerin Hidrodinamik Performansını Artırıcı İnterseptör Tasarımı	DESIGN-2	**17-2**	**16:50**	**17 Sept 2021**	TR	15:50
3	Tansu Özbey, Mehmet Akman and Bülent İbrahim Turan	Ticari Yatların Paris Mou – Liman Devleti Kontrolü Kapsamında Tespit Edilen Eksikliklerinin Analizi ve Değerlendirilmesi	REGULATIONS	**17-2**	**17:05**	**17 Sept 2021**	TR	16:05
(Break 15 min)								
9	Ferdi Çınar, Mehmet Akman and Mesut Can Köseoğlu	The Simulator Aided Risk Analysis of Ship Manoeuvres in Coastal Facilities: A Case Study in a Port	RISK ANALYSIS	**17-2**	**17:20**	**17 Sept 2021**	EN	16:20
31	Gökhan Budak and Serdar Beji	Kontrollü Rota Takip Simülatörü ve Uygulamaları	SHIP HANDLING	**17-2**	**17:35**	**17 Sept 2021**	TR	16:35
Co-Chair: Assist.Prof.Dr.Emrah ERGİNER								
13	Ajaz Rashid, Teoman Ayhan, Cevdet Demirtaş, Betül Saraç and Ferudun Keskİn	Thermodynamic Performance Analysis of a Novel Wastewater Desalination System Operated by Thermoelectric Devices	MACHINERY	**18-1**	**10:00**	**18 Sept 2021**	EN	09:00
79	Abdullahi Abdulkarim Daya and Iraklis Lazakis	Application of Artificial Neural Network and Dynamic Fault Tree Analysis to Enhance Reliability in Predictive Ship Machinery Health Condition Monitoring	MACHINERY	**18-1**	**10:15**	**18 Sept 2021**	EN	09:15
36	Burak Göksu and Kadir Emrah Erginer	Determination of the Wing Geometry In Auxiliary Kite Propulsion Systems	MACHINERY	**18-1**	**10:30**	**18 Sept 2021**	EN	09:30
71	Selçuk Cin and Uğur Buğra Çelebi	Evaluating the Challenge of Selecting a Propulsion Plant for Surface Vessels at the Conceptual Design Phase	MACHINERY	**18-1**	**10:45**	**18 Sept 2021**	EN	09:45
35	Samet Gürgen and İsmail Altin	Gemi Egzoz Gazından Atık Isı Kazanımı için Organik Rankine Çevriminin Çok Amaçlı Gri Kurt Algoritması ile Optimizasyonu	MACHINERY	**18-1**	**11:00**	**18 Sept 2021**	TR	10:00
(Break 15 min)								
Co-Chair: Assist.Prof.Dr.Levent BİLGİLİ								
21	Abdullah Açık and Ali Yasin Kaya	Do Shocks Have Permanent or Transitory Effects on MGO Bunker Prices?	ALTERNATIVE FUELS	**18-1**	**11:30**	**18 Sept 2021**	EN	10:30
45	Mesut Erkan and Turgay Köroğlu	Türkiye'nin Doğu Akdeniz Enerji Kaynakları ve Potansiyelleri Üzerine bir Değerlendirme	ALTERNATIVE FUELS	**18-1**	**11:45**	**18 Sept 2021**	TR	10:45
46	Muhammed Umar Bayer and Levent Bİlgİİİ	On the Potential of Marine Alternative Fuels	ALTERNATIVE FUELS	**18-1**	**12:00**	**18 Sept 2021**	EN	11:00
59	Canberk Hazar and Ali Cemal Töz	A Review of Ammonia As Alternative Marine Fuel: Swot Analysis	ALTERNATIVE FUELS	**18-1**	**12:15**	**18 Sept 2021**	EN	11:15
(Lunch break 45 min)								
Co-chair: Prof. Dr. Serdar BEJİ - Assist.Prof.Dr.Onur USTA								
27	Onur Usta and Aytekin Duranay	A Numerical Investigation on the Resistance Characteristics of Nature Inspired Underwater Vehicles	UNDERWATER TECH.	**18-2**	**13:00**	**18 Sept 2021**	EN	12:00
32	Alpaslan Tatlisuluoglu and Serdar Beji	Pressure Measurements of an Underwater Detonation in Sea	UNDERWATER TECH.	**18-2**	**13:15**	**18 Sept 2021**	EN	12:15
33	Alpaslan Tatlisuluoglu and Serdar Beji	Numerical Simulations of Shock Wave Effects on a Ship-Like Form	UNDERWATER TECH.	**18-2**	**13:30**	**18 Sept 2021**	EN	12:30
65	Oğuzhan Kırıkbaş and Şakir Bal	A Review of the Rules and Regulations on Submersible Maneuvering	UNDERWATER TECH.	**18-2**	**13:45**	**18 Sept 2021**	EN	12:45
68	Buğra Uğur Yazıcı and Şakir Bal	Hydrodynamic Optimization of a Submarine Forebody using Bezier Curve and Genetic Algorithms	UNDERWATER TECH.	**18-2**	**14:00**	**18 Sept 2021**	EN	13:00
(Break 5 min)								
Co-chair: Assist.Prof.Dr.Hasan ÖLMEZ - Dr. Serkan TÜRKMEN								
1	Ahmet Dursun Alkan	Investigation of Environmental Effects of High Speed Boats	EMISSION	**18-2**	**14:20**	**18 Sept 2021**	EN	13:20
47	Arif Savaş and Levent Bilgili	Environmental Assessment of Ship Welding Emissions	EMISSION	**18-2**	**14:30**	**18 Sept 2021**	EN	13:30
48	Dursun Murat Sekban	Examination of Welding Methods used in Shipbuilding in terms of Harmful Emissions	EMISSION	**18-2**	**14:45**	**18 Sept 2021**	EN	13:45
60	Ahmet Dursun Alkan and Ömür Karataş	Smart Ship Emission Indication, Analysis and Monitoring System	EMISSION	**18-2**	**15:00**	**18 Sept 2021**	EN	14:00
8	Mesut Can Köseoğlu, Mehmet Akman and Ferdi Çınar	Environmental Cost-Benefit Analysis of Cold Ironing Systems in Green Container Ports for 2020-2030: A Case Study in Turkey	GREEN&INTELLIGENT	**18-2**	**15:15**	**18 Sept 2021**	EN	14:15

61	Hasan Ölmez	Win-Win or Win-Lose Situation Assessment for Ship Recycling Sector of Turkey in terms of Green Maritime Industry Approach	GREEN&INTELLIGENT	**18-2**	**15:30**	**18 Sept 2021**	EN	14:30
5	Nalan Erol, Gökhan Kamer and Emre Çaylak	A look Through Autonomous Vessels	GREEN&INTELLIGENT	**18-2**	**15:45**	**18 Sept 2021**	EN	14:45
		(***Break 15 min***)						
		Co-chair: 'Prof.Dr.Ercan KÖSE - Assist.Prof.Dr.Erhan AKSU						
7	Dursun Saral and Ercan Köse	Karadeniz Tipi Balıkçı Gemilerinde Skeg Konumlarının Direnç Açısından İncelenmesi	RESISTANCE	**18-2**	**16:15**	**18 Sept 2021**	TR	15:15
18	Sarih Sarı, Ali Doğrul and Seyfettin Bayraktar	On the Computational Aerodynamics of a Generic Frigate	RESISTANCE	**18-2**	**16:30**	**18 Sept 2021**	EN	15:30
19	Burak Aydoğdu, Ali Doğrul and Ferdi Çakıcı	Resistance Analyses of Joubert Bb2 Benchmark Submarine	RESISTANCE	**18-2**	**16:45**	**18 Sept 2021**	EN	15:45
		Co-chair: 'Prof.Dr.Murat ÖZKÖK - Assoc.Prof.Dr.Yigit Kemal DEMİREL						
43	Burak Göksu, Süleyman Aykut Korkmaz and Kadir Emrah Erginer	Ship Wind Resistance Prediction: A Case-Based Approach	RESISTANCE	**18-2**	**17:00**	**18 Sept 2021**	EN	16:00
28	Serap Özhan Doğan and Burak Galip Anik	For Norway Type Cold Storage Freezer Trawlers; the Optimization of Ship Landing Distance Between the Slipway and the Sea	SHIPYARD	**18-2**	**17:15**	**18 Sept 2021**	EN	16:15
41	Mustafa Kafalı and Murat Özkök	Gemi Üretiminde Tesis Yerleşiminin Belirlenmesi İçin Bir Yöntem	SHIPYARD	**18-2**	**17:30**	**18 Sept 2021**	TR	16:30
		(***Break 15 min***)						
		Prof.Dr.Ahmet Dursun ALKAN - Dr. Levent KAYDIHAN						
44	Yusuf Genç, Mustafa Kafalı and Uğur Buğra Çelebi	Blok Üretiminde Elektrot Maliyeti Üzerine bir Çalışma	SHIPYARD	**18-2**	**18:00**	**18 Sept 2021**	TR	17:00
11	Mustafa Erden Yıldızdağ	İzogeometrik Sonlu Elemanlar Metodunun Dairesel Silindirik Yapıların Serbest Titreşim Problemlerine Uygulanması	VIBRATIONS-NOISE	**18-2**	**18:15**	**18 Sept 2021**	TR	17:15
16	Aytekin Duranay, Mostafa Tarek Abdelaziz, Alkın Erdal Demirhan, Onur Usta and Ömer Kemal Kınacı	An Investigation about the Tip Flow Effect on Vortex Induced Vibrations of Circular Cylinders	VIBRATIONS-NOISE	**18-2**	**18:30**	**18 Sept 2021**	EN	17:30
22	Alkın Demirhan, Aytekin Duranay and Omer Kemal Kinaci	A study about the Free-Surface Effect on the Vortex Induced Vibrations of Circular Cylinders	VIBRATIONS-NOISE	**18-2**	**18:45**	**18 Sept 2021**	EN	17:45
		Closing Remarks by the Organizing Committee		**18-2**	**18:50**	**18 Sept 2021**	EN-TR	17:50
					Time(TRT)			Time(CET)

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