

COMMITTEES

Standing Committee

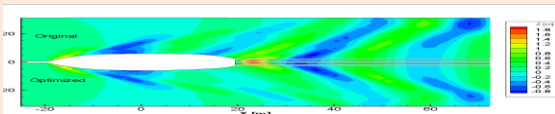
- Prof. Mehmet Atlar (University of Strathclyde, UK)
- Prof. Sander Çalıřal (UBC, Canada and Piri Reis University)
- Prof. Atilla İncecik (University of Strathclyde, UK)
- Assoc.Prof. Barbaros Okan (ITU)

Technical Committee

- Prof. Apostolos Papanikolaou (NTUA, Greece)
- Prof. Kirill Rozhdestvensky (State Marine Tech. University, Russia)
- Dr. Matteo Diez (CNR-INM, Italy)
- Prof. Ömer Goren (ITU)

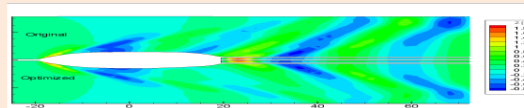
Local Organizing Committee

- Assoc.Prof. D. Bülent Danıřman (Chair)
- Assoc.Prof. Erdem Üçer (Secretary)
- Assoc.Prof. U. Oral Ünal
- Assist.Prof. M. Cansın Özden
- Dr. Çağatay S. Köksal
- M.Sc. Deniz Öztürk



Prof. A. Yücel ODABAŐI (1945-2009)

Professor Odabaőı, a graduate of ITU (1967), earned his Ph.D. degree from the same university in 1971. Following his Ph.D., he joined Strathclyde University where his work on the application of Lyapunov's theory to ship stability gained him a well-deserved international reputation which was acknowledged by STAB Award in 2012 post mortem. In 1974 he joined BSRA where he worked on every field of ship hydrodynamics and made significant contributions, in particular in the field of wake scaling. In 1988 he moved to USA to set up BMT International as its first director and CEO. He returned to ITU-Turkey in 1991 where he inspired a generation of young academicians while at the same time succeeding to lead Turkish Lloyd to worldwide recognition. He was awarded the gold medal of NECIES-UK and numerous awards from NAVSEA, SNAME and BSRA.



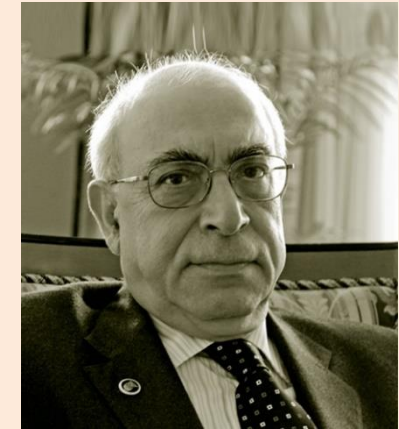
A.Yücel ODABAŐI Colloquium Series

4th International Meeting

Ship Design & Optimization and Energy Efficient Devices for Fuel Economy

15-16 December 2022

*Istanbul Technical University
Faculty of Naval Architecture and Ocean Engineering*



First Announcement and Call for Papers

PREAMBLE

As a tribute to the late Professor A. Yücel Odabaşı's (1945 – 2009) life-long endeavours in promoting the science of Naval Architecture and in particular Naval Hydrodynamics, a biennial international colloquium aiming to focus on a different theme on each occasion, gathering specialists from around the world, was first organized in 2014 at Istanbul Technical University and the second and the third meetings were held in 2016 and 2018, respectively. After the interruption due to pandemia, fourth colloquium is now scheduled to take place on December 15-16, 2022. The theme of the fourth colloquium is selected as **'Ship Design & Optimization and Energy Efficient Devices for Fuel Economy'**. The goal of this colloquium would be to gather specialists and to create a platform where the recent developments in ship design and optimization, as well as in energy efficient devices are discussed and new opportunities for collaborative research are sought.

KEYNOTE SPEAKERS

Prof. **Apostolos Papanikolaou**, Prof. **Kirill Rozhdestvensky** and Dr. **Matteo Diez** kindly accepted to give key-note lectures in the present colloquium. They are renowned academicians particularly on ship design, hull form optimization techniques and innovative solutions in ship design for fuel economy. We believe that their contribution and participation to the colloquium create efficient scientific environment and fruitful discussions for those who seek to pursue research in Ship Design & Optimization and in Energy Efficient Devices.

SCOPE

The Fourth AYO Colloquium focuses on the recent developments in Ship Design & Optimization and Energy Efficient Devices for Fuel Economy, which include, but not limited to the following;

- Recent developments in ship design
- Holistic and congruent design approaches
- Innovative ship designs for fuel economy
- AI and ML in ship design
- Simulation based design studies
- Hull form optimization techniques
- Multi-objective, multi-fidelity optimization methods, uncertainty quantification
- Reliability based robust design optimization, stochastic design optimization
- Design-space dimensionality reduction techniques
- Recent developments and innovations in energy efficient devices
- Surface finishing to reduce frictional resistance
- Computational and experimental studies with energy efficient devices.

CONTACT INFORMATION

Assoc.Prof. Erdem Üçer
Colloquium Secretariat
Istanbul Technical University
Faculty of Naval Architecture & Ocean
Engineering, Maslak, 34469 Istanbul, TURKEY
Tel : +90 212 285 6381
Fax : +90 212 285 6454
e-mail : ayocol@itu.edu.tr
Web : <http://www.ayocol.itu.edu.tr>

IMPORTANT DATES

Manuscript Submission : Oct. 31, 2022
Final Manuscripts : Nov. 20, 2022
Final Programme : Nov. 25, 2022
Registration (Final) : Dec. 8, 2022
Colloquium : Dec. 15 – 16, 2022

REGISTRATION

Colloquium is open to all interested researchers and academicians. **Registration is free for all participants, but all those attending the Colloquium must register** via <http://www.ayocol.itu.edu.tr> using the link **EasyChair** (for authors) or via e-mail: ayocol@itu.edu.tr (other than authors.) Participants registered will be provided Colloquium Proceedings. Lunch and coffee breaks will also be provided free of charge. The papers will be presented in person. There will be an on-line platform for those who wish to follow the presentations from away.

MANUSCRIPT SUBMISSION

Interested researchers are kindly asked to submit their papers by October 31, 2022. The template that should be taken into account in preparing manuscripts can be found in the web-site: <http://www.ayocol.itu.edu.tr>. Submissions can be made to the Colloquium web-site using the link **EasyChair**.

VENUE

Colloquium will be held on 15 – 16 December 2022 at Istanbul Technical University (ITU), Ayazaga Campus, Maslak, Istanbul, Turkey.