

Standing Committee

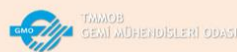
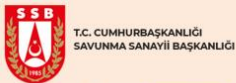
- Prof. Mehmet Atlar (U. of Strathclyde)
- Prof. Sander Çalışal (UBC and Piri Reis U.)
- Prof. Atilla İncecik (U. of Strathclyde)
- Prof. Ömer Gören (ITU)
- Dr. Barbaros Okan (ITU)
- Dr. Öner Şaylan

Technical Committee

- Prof. Moustafa Abdel-Maksoud (TUHH-Hamburg University of Technology)
- Prof. Paul Brandner, University of Tasmania
- Prof. Steven Cecio (University of Michigan)
- Prof. (vis.) Patrick Fitzsimmons (University of Strathclyde)
- Prof. Emin Korkut (ITU)
- Prof. (vis.) Noriyuki Sasaki (University of Strathclyde)
- Prof. Tom van Terwisga (MARIN & TU Delft)

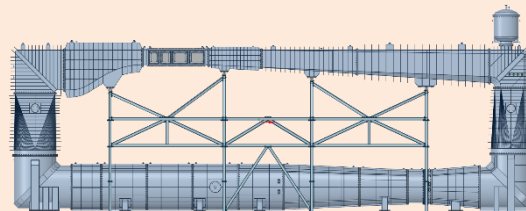
Local Organizing Committee

- Dr. Devrim Bulent Danışman (Secretary)
- Dr. Burcu Erbaş
- Mr. Emre Kemal Gürtunca (SSB)
- Prof. İsmail H. Helvacioğlu (Chair)
- Mr. Çağatay Sabri Köksal
- Dr. U. Oral Ünal



Prof. A. Yücel ODABAŞI (1945-2009)

Professor Odabaşı, 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 in almost 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 academics 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.



FINAL PROGRAM



A. Yücel ODABAŞI Colloquium Series

3rd International Meeting

Progress in Propeller Cavitation and its Consequences: Experimental and Computational Methods for Predictions

15-16 November 2018
Istanbul Technical University
Faculty of Naval Architecture and
Ocean Engineering



15 November 2018, Thursday

- 08:30 **Registration**
- 09:00 **Opening and Welcoming Address**
Session 1 – Chair: M. Atlar
- 09:15 **E. Korkut** *Progress in ITU Large Cavitation Tunnel (ITU-CAT)*
- 09:45 **M. Abdel-Maksoud** *Keynote Address 1: Investigation of Scale Effects on Propeller Sheet and Tip Vortex Cavitation Based on Hybrid Simulation Methods*
- 10:30 **Coffee Break + Colloquium Photo**
Session 2 – Chair: M. Abdel-Maksoud
- 11:00 **K. W. Shin and P. Andersen** *Numerical Study on Characteristics of Cloud Cavitation on a Ship Propeller*
- 11:30 **N. Yilmaz, S. Turkmen, B. Aktas, P. A. Fitzsimmons, N. Sasaki and M. Atlar** *Tip Vortex Cavitation Simulation of a Propeller in a Gate Rudder System*
- 12:00 **O. Usta, C. S. Koksall and E. Korkut** *A Study on Cavitation Erosion Resistance of Marine Propeller Materials, Using a Water Jet Test Rig*
- 12:30 **S. Turkmen, M. Fukazawa, N. Sasaki and M. Atlar** *Cavitation Model Tests and Full-Scale Review of the First Gate Rudder System Installed on the 400TEU Container Ship*
- 13:00 **Lunch Break**
Session 3 – Chair: Y.L. Young
- 14:00 **P. Brandner** *Keynote Address 2: Developments in Experimental Modelling of Two-Phase Flows in Naval Hydrodynamics*
- 14:45 **L. Savio, C. Muthanna and K. Koushan** *Challenges in the Optical Design of a Cavitation Tunnel*
- 15:15 **C. Johannsen** *Propulsion Testing in the HYKAT Cavitation Tunnel*
- 15:45 **Coffee Break**

15 November 2018 (Continued)

- Session 4 – Chair: E.B. Djatmiko**
- 16:15 **B. Aktas, N. Yilmaz, N. Sasaki, G. Tani, F. Miglianti, M. Viviani, M. Atlar and D. Taylor** *An Experimental Investigation into Pressure Relieving Holes to Mitigate Propeller Cavitation and Underwater Radiated Noise*
- 16:45 **S. Duman, S. Sezen and S. Bal** *Propeller Effects on Maneuvering of a Submerged Body in Oblique Towing*
- 19:30 **Gala Dinner (Hilton Istanbul Bosphorus)**

16 November 2018, Friday

- Session 5 – Chair: C. Testa**
- 09:15 **Y. L. Young** *Keynote Address 3: Multi-functional Marine Structures: New Frontiers for Cavitating and Ventilating Flows?*
- 10:00 **M. Fukazawa, S. Turkmen, A. Marino and N. Sasaki** *Full-Scale GATE RUDDER Performance Obtained from Voyage Data*
- 10:30 **Coffee Break**
Session 6 – Chair: P. Brandner
- 11:00 **C. Testa, F. Porcaccia, L. Greco and R. Muscari** *Effectiveness of Boundary Element Method Hydrodynamic Data for Propeller Hydroacoustics*
- 11:30 **S.E. Belhenniche, O. Imine and K. Kinaci** *Computational Investigation of Hydroacoustic Propeller Performance for Non-Cavitating Case*
- 12:00 **E. Widjiati, E. B. Djatmiko, W. Wardhana and W. Wirawan** *An Investigation of Underwater Ship Noise Utilizing Cavitation Tunnel and Field Measurement*
- 12:30 **N. Sasaki and M. Atlar** *Investigation into the propulsive efficiency characteristics of a ship with the GATE RUDDER® Propulsion system*

16 November 2018 (Continued)

- 13:00 **Lunch Break**
Session 7 – Chair: N. Sasaki
- 14:00 **Z. Tacar and E. Korkut** *Parametric Study of a Pre-Swirl Stator for a Tanker*
- 14:30 **M. Maasch, O. Turan and S. Day** *The Effect of Extreme Trim Operation on Propeller Cavitation in Self-Propulsion Conditions*
- 15:00 **M. S. Karaalioglu and S. Bal** *Investigation of Cavitating Marine Propeller Performance Using Blade Element Momentum Theory*
- 15:30 **Coffee Break**

CONTACT INFORMATION

Dr. Devrim Bülent Danişman
Colloquium Secretariat
Istanbul Technical University
Faculty of Naval Architecture & Ocean Engineering,
Maslak, 34469 Istanbul, TURKEY
Tel : +90 212 285 6392
Fax : +90 212 285 6454
e-mail: ayocol@itu.edu.tr
Web: <http://www.ayocol.itu.edu.tr>

REGISTRATION

Registration fee: 250 EURO
Students: 100 EURO

Colloquium is open to all interested researchers and academicians. Fee includes digital and hard-copy proceedings, lunches, coffee and colloquium dinner.

VENUE

Colloquium will be held on 15-16 November 2018 in the Faculty of Naval Architecture and Ocean Engineering of Istanbul Technical University (ITU), Ayazaga Campus, Maslak, Istanbul, Turkey.