

RINA International Conference on Computational and Experimental Marine Hydrodynamics 2016

MARHY 2016

www.marhydro.com

www.rina.org.uk/Computational_Experimental_Marine_Hydrodynamics2016.html

24th – 25th November 2016

ANNOUNCEMENT AND CALL FOR PAPERS

Organized by



Department of Ocean Engineering
Indian Institute of Technology Madras
Chennai (TN) - 600 036, India.
www.oec.iitm.ac.in

In collaboration with



The Royal Institution of Naval Architects
www.rina.org.uk

About the institution

IIT Madras is a premier centre for teaching, research and industrial consultancy in the country. The campus is situated in lush green environment and the weather in the month of November is expected to be pleasant with temperatures around 28 °C (max) and 20 °C (min). On campus guest house and hostel accommodations will be provided for the participants based upon availability and on first-come-first-serve basis.

About the international conference

The area of fluid mechanics deals with mechanics related to the fluid flow and covers liquids, gases and/or their combination set in motion. Though, in the fluid mechanics domain, primarily hydrodynamics deals with the study of liquids in motion, however it can also include gases trapped in liquid or multiple phases of liquid and gas. In modern era of engineering, the hydrodynamics in marine environment – Marine Hydrodynamics – offers a wide range of applications, including calculating forces and moments on ships and offshore structures, determining the mass flow rate of petroleum through pipelines, and predicting ocean weather patterns, etc. The marine hydrodynamics offers a systematic structure that underlies and unites these practical disciplines and covers empirical, semi-empirical, numerical and computational laws derived from flow measurement, modeling and simulations and use them to solve practical problems of interest for the ships and offshore structures. In general, the solution to a marine hydrodynamics problem involves computing various properties of the fluid flow (e.g. flow velocity, pressure, density, and temperature) as functions of space and time over/on ships and offshore structures. The RINA International Conference on Computational and Experimental Marine Hydrodynamics (MARHY 2016) is aimed at bringing together academicians, scientists, engineers and researchers working in various disciplines of marine hydrodynamics to exchange views as well as to share knowledge among people from different parts of the globe. In MARHY 2016, we are planning to have four keynote talks and contributed research papers on critically important diverse themes like ship propulsion, ship maneuvering, marine hydrodynamics, ship resistance, underwater vehicles, ship and offshore structures. The keynote talks are associated with four dedicated sessions on: hydrodynamics of fluid-structure interaction, hydrodynamics for propulsion, experimental hydrodynamics for ocean engineering, and hydrodynamics for design.

Call for papers

MARHY-2016 invites all the researchers to submit original and unpublished work. Please submit 'extended abstract' (2-3 pages) in RINA format on A4 size in Times New Roman Script of 12-pt font. All the received abstracts will be reviewed and judged on merits including correctness, originality, technical strength and quality of presentation. The accepted abstracts will be invited for the full-length paper submission (up to 14 pages). The accepted full-length papers will be published in the conference proceedings. For each of the accepted papers at least one of the authors has to register for the conference. The authors are requested to send the papers in soft copy as an e-mail attachment to rina.cbc@gmail.com. Or the submission can be through website submission of the RINA: www.rina.org.uk and www.marhydro.com

Registration

The registration fees are:

*Indian authors

- Author (industry) - 10, 000 INR.
- Author (academic institutions) - 8, 000 INR.
- Author (student) - 4000 INR.
- Non-author participant –5000 INR.

*International authors

- International author (industry/academic institutions): 300 USD.
- International author (student): 200 USD.

To register, please complete the accompanying registration form of this brochure and post it to any of the coordinators. Alternatively send an e-mail to any of the coordinators.

Important dates

- Abstract submission: 31st Aug. 2016.
- Acceptance notification: 15th Sept. 2016.
- Full paper submission due: 15th Oct. 2016.
- Final acceptance notification: 22nd Oct. 2016.
- Final camera ready papers due: 31st Oct. 2016.

Topics

The co-coordinators are soliciting original manuscripts that highlight recent successes and define major research challenges in all areas of marine hydrodynamics. The non-exhaustive list of areas includes - Marine hydrodynamics for:

- Resistance, propulsion, sea-keeping, and maneuverability,
- Cavitation and cavitating flows,
- Non-linear forces due to wind, waves and current,
- Effect of slamming, sloshing, green water, run-up, and impact loads,
- Computational fluid dynamics, numerical modeling and simulation for towing/wave tank experiments,
- Hull form optimization based on integration of CAD, CAE and CFD,
- Fluid-fluid and fluid-structure interactions,
- Flow induced noise and vibration,
- High speed and energy efficient vessels,
- Offshore platforms, pipelines, risers and mooring systems,
- Renewable marine energy and ocean resources, and
- all other applications in naval architecture and ocean engineering.

Dedicated sessions

In the MARHY-2016, four dedicated sessions - Hydrodynamics of fluid-structure interaction, Hydrodynamics for propulsion, Experimental hydrodynamics for ocean engineering, and Hydrodynamics for design - are planned. Each one of the dedicated sessions will open with a keynote talk and will consist of regular conference papers.



Prof. C. P. Vendhan
(Hydrodynamics of fluid-structure interaction)



Prof. R. P. Gokarn
(Hydrodynamics of propulsion)



Prof. V. G. Idichandy
(Experimental Hydrodynamics)



Prof. S. C. Misra
(Hydrodynamics of design)

About the conference administration

Chairpersons

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The Royal Institution of Naval Architects
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Professor, AU, India

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The various levels of sponsorship are available for companies willing to show their support to MARHY - 2016. For more information or to become a sponsor, contact **rina.cbc@gmail.com**.

- Platinum sponsor (limit 2)

Amount: 500, 000 INR or 10, 000 USD.

- Gold sponsor (limit 4)

Amount: 300, 000 INR or 7500 USD.

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Amount: 100, 000 INR or 2500 USD.

- Bronze sponsor (no limit)

Amount: 50, 000 INR or 1, 500 USD.

- Steel sponsor (no limit)

Amount: 30, 000 INR or 750 USD.

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Prof. Kurian V. John
Universiti Teknologi Petronas, Malaysia

Unique innovative features of the MARHY 2016

In MARHY – 2016, there is a plan to have some invited papers that are written by the distinguished members of international committee. These invited papers will be written papers and their presentation at the conference will be made by one of faculty members of IIT Madras or from other leading institutions participating in the MARHY – 2016 and who have similar interests. The ‘key idea’ that has motivated this concept is to have opinion based papers that will help the research community in understanding the existing challenges and emerging new directions of research. However, the authors may not be visiting the conference because of multiple reasons. The written papers will be included in proceedings. The faculty members will be instrumental in facilitating the discussion and detailed Q&A sessions will be encouraged.

One best paper from each of the four dedicated sessions (i.e. Hydrodynamics of fluid-structure interaction, Hydrodynamics for propulsion, Experimental hydrodynamics for ocean engineering, and Hydrodynamics for design) will be awarded and then these papers will be considered for publication in the RINA’s International Journal of Maritime Engineering after a rigorous review.

MARHY - 2016

Registration form

1. Name:

2. Designation:

3. Organization:

4. Address:

5. Phone number:

6. Fax number:

7. E-mail:

8. Type of participation:

- Author participating.
- Non-author participating.

9. Title of the paper (attach the soft copy):

10. Registration category:

*Indian authors

- Author (industry) - 10, 000 INR.
- Author (academic institutions) - 8, 000 INR.
- Author (student) - 4000 INR.
- Non-author participant –5000 INR.

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- International author (student): 200 USD.

Date: (Signature)

Kindly return the above to the following address: Dr. R. Sharma, Department of Ocean Engineering, Indian Institute of Technology Madras, Chennai (TN) - 600 036, India.
E-mail: **rina.cbc@gmail.com**