



3rd SNAME/RINA ONAE Annual Student Technical Conference

May 17th, 2019

Department of Ocean and Naval Architectural Engineering
Memorial University of Newfoundland
St. John's NL, Canada



About the conference

The SNAME/RINA ONAE Annual Student Technical Conference is jointly organized by the Department of Ocean and Naval Architectural Engineering, Faculty of Engineering and Applied Science, Memorial University, the Society of Naval Architects and Marine Engineers Canadian Atlantic Section and Student Section, the Canadian Atlantic Branch of The Royal Institution of Naval Architects. This conference aims to bring together senior undergraduate students and graduate students in Ocean and Naval Architectural Engineering, present their research activities and design projects, and share and discuss their ideas and research with each other.

Venue

Memorial University of Newfoundland, S.J. Carew (Engineering) Building,
Room EN4002, Engineering Boardroom, Faculty of Engineering and Applied Science
240 Prince Philip Drive, St. John's, NL A1B 3X5, Canada

Please note that SPACE IS LIMITED

For those wishing to attend, RSVP Required by Wednesday, May 15th at 5:00pm

Organizing Committee and Contact

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Conference Agenda

8:30am - 9:00am

Conference Registration

9:00am – 9:10am

Opening Session

9:10am – 9:30am

Keynote Speaker

9:30am – 10:30am First Session

1. Simulations of Self-Propulsion Model Tests of a Fishing Vessel Using a Body-Force Method Coupled with a RANS Solver
Md Ashim Ali, Heather Peng, Wei Qiu
2. Cavitation Performance of Propeller Sections with and without Leading Edge Defects
Shanqin Jin, Ruosi Zha, Heather Peng, Wei Qiu
3. Finite Element vibration analysis of a twin-screw super-yacht: influence of propeller phase angles
Alessandro Zambon, Lorenzo Moro

10:30am – 10:45am

Break and Networking

10:45am – 11:00am

RINA & SNAME Awards 2018

11:00am – 12:00pm Second Session

4. Simulation Methods for Ship-Ice Interactions
Amy Price
5. Low polar class ship grillage under moving ice loads
Sthéfano L. Andrade, Bruce W.T. Quinton
6. Introducing the use of Reinforcement Learning Based Ship Autopilot for Reducing Hull Loads in Ice
Michael Dawson, Dennis Peters, Claude Daley, and Mashrura Musharraf

12:00pm – 1:00pm Third Session

7. Performance Evaluation and Optimization of a Hinged-typed Wave Energy Converter
Wei Meng, Meng Chen, Heather Peng, and Wei Qiu
8. A Survey on Underwater Oil Spill Reconnaissance and Delineation with AUV
Yaomei Wang, Ting Zou, Neil Bose

9. Exploring the Relationship Between Amount of Training and Ice Management Performance
Rebecca Thistle, Brian Veitch

1:00pm – 2:00pm

Lunch

2:00pm – 3:00pm Fourth Session

10. Definition of frequency-dependent damping properties for vibration isolators for marine diesel engines
Jacopo Fragasso, Lorenzo Moro
11. Characterization of acoustic transmission losses on board small-scale fishing vessels from Newfoundland and Labrador
Giorgio Burella, Lorenzo Moro