



The International Hydrofoil Society (IHS) 2018 Mandles Prize for Hydrofoil Excellence

Announcement of Awards Congratulations to This Year's Winners!

Final Results

First Prize (one at \$2,500):

“An Automatic, Multi-Fidelity Framework for Optimizing the Performance of Super-Cavitating Hydrofoils Using Gaussian Process Regression and Bayesian Optimization”

By: LT Benjamin Parker

Massachusetts Institute of Technology – Cambridge, Massachusetts

Faculty Adviser: Luca Bonfiglio, Senior Postdoctoral Associate, MIT Sea Grant – Mechanical Engineering Department

Honorable Mention Award (one at \$1,000):

“Development of Numerical Code to Model Submerged 2-D Hydrofoils”

By: Kevin Raleigh

Stevens Institute of Technology – Hoboken, New Jersey

Faculty Adviser: Mirjam Furth, Assistant Professor – Davidson Laboratory

Background on This Year's Competition

Several entries for the 2018 Mandles Prize were received, reflecting a range of hydrofoil-related technology. We assembled an outstanding panel of judges to review the entries, and they determined that this year's winners are from Massachusetts Institute of Technology and Stevens Institute of Technology.

Our congratulations go to the many prominent schools of the previous (2014-2017) and 2018 Mandles Prize entrants. They include: Australian Maritime College, University of Tasmania; Cedarville University; Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland;

Florida Institute of Technology; Massachusetts Institute of Technology; Stevens Institute of Technology; Swiss Federal Institute of Technology; Technical University of Delft, Netherlands; Tolani Maritime Institute, India; University of Genoa, Italy; University of New Orleans; University of New South Wales, Australia; University of Southampton, United Kingdom; United States Naval Academy, Annapolis, Maryland; and Webb Institute, Glen Cove, New York.

The International Hydrofoil Society thanks every entrant for their interest in hydrofoil technology and for their excellent work. We wish you all the best in your professional careers and we sincerely hope that you will continue to participate in the activities of the IHS.

By virtue of applying for the 2018 IHS Mandles Prize, all students and their faculty advisers are now members of the International Hydrofoil Society. We invite them and anyone who is interested to volunteer for our not-for-profit efforts encouraging hydrofoil research, development and applications.

Now, with the 2018 IHS Mandles Prize in the record books, it's time to think ahead to the 2019 competition, the announcement for which will be posted on www.foils.org in November 2018. The sooner preparations begin, the greater the chance of submitting a winning entry. Good luck, and we look forward to welcoming all of you and those who follow in your footsteps next year.

Finally, we want to express our sincere appreciation to Martinn and Connie Mandles for their continuing support as the benefactors and namesakes of the IHS Mandles Prize.

Sincerely,

Ray Vellinga – President, International Hydrofoil Society
Mark Bebar – Vice President, International Hydrofoil Society