



**The International Hydrofoil Society (IHS)
2022 Mandles Prize for Hydrofoil Excellence**

**Announcement of Awards
Congratulations to This Year's Winner!**

Final Results

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

- *“Modification of a Lateral MIMO Model for Use as a Hydrofoil Boat Design Tool and Flight Control System with the Addition of Longitudinal Control”*

By: Ethan Beachy and Jonathan Stanhope
Cedarville University, Cedarville, Ohio USA
Faculty Advisor: Professor Timothy Dewhurst

Honorable Mention (two at \$1,000 each):

- *“Velocity Prediction Program for a Hydrofoiling Lake Racer”*

By: Michele Francesco Melis
Hamburg University of Technology, Hamburg Germany
Faculty Advisor: Professor Moustafa Abdel-Maksoud

- *“Optimization of a Hybrid Composite Hydrofoil Using a Genetic Algorithm to Improve Its Performances”*

By: Jeanne Bouvier
University of Southampton, United Kingdom
Faculty Advisor: Professor Adam Sobey

Background on This Year's Competition

The entries for the 2022 Mandles Prize reflected a range of hydrofoil-related research and technology. We are fortunate to have an outstanding panel of judges to review the entries, and they determined that this year's First Prize winner is from Cedarville University, Cedarville, Ohio. In addition, two Honorable Mention awards will be given this year, to students at the Hamburg University of Technology in Germany and the University of Southampton, United Kingdom. The three papers will be posted on our website, www.foils.org, in the near future.

Our appreciation and thanks go to the many prominent schools of the previous (2014-2021) and 2022 Mandles Prize cycles and the students and faculty advisers that competed. 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; University of Florida, Ghent University, Hamburg University of Technology, Hamburg Germany, 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; Newcastle University, United Kingdom; United States Naval Academy, Annapolis, Maryland; and Webb Institute, Glen Cove, New York.

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

By virtue of applying for the 2022 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 2022 IHS Mandles Prize in the record books, it's time to think ahead to the 2023 competition. The announcement for 2023 will be posted on www.foils.org in September 2022. The sooner preparations begin, the greater the chances of submitting winning entries. Good luck, and we look forward to welcoming all of you and those who follow in your footsteps next year.

Finally, as we enter the 10th year of the Mandles Prize for Hydrofoil Excellence, 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
email: ihsresident2016@gmail.com

Mark Bebar, Vice-President, International Hydrofoil Society
email: markbebar@juno.com