

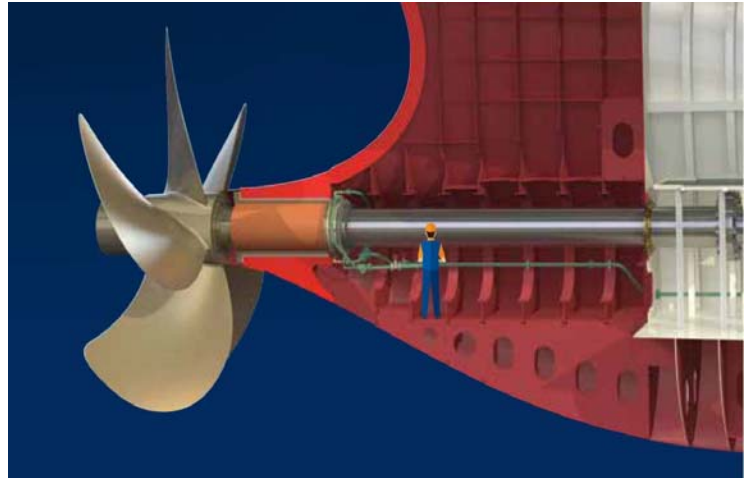
## **2022-23 Programme: Annual Meeting and Lecture on Zoom**

**Title of talk:** **Revolutionary Sterntube-less Ship**  
**Date & Time:** 7:00 PM (business meeting) on Friday April 21, 2023. Lecture follows at 7:30 pm)  
**Venue:** Virtual. The zoom link will be posted 7 days prior to the event.  
**Speaker:** Tony Hamilton, Immediate Past Branch Chair, PEng, CEng, FIMechE

### **Abstract:**

The sealed sterntube has long been an essential component to most merchant fleet vessels. The aft seal provides protection from water ingress while preventing oil leakage from the sterntube. Given the development of advanced seawater-lubricated bearing systems that eliminate the pollution risks associated with oil-lubricated systems, do we still need the sterntube? The answer, it seems, is no.

The results from a joint research project involving Thordon Bearings, Shanghai Merchant Ship Design & Research Institute (SDARI-CSSC), National Technical University of Athens (NTUA) and American Bureau of Shipping (ABS) indicate that a ship's sterntube can be completely omitted to make better use of the available space.



### **About our speaker:**

Originally trained as a marine engineer in Ireland, Tony sailed Western Europe for a few years before moving to Canada in 1987. He has worked in many roles and industries since then, with primary experience in the nuclear field. Tony joined Thordon Bearings, Burlington in 2021. Over the last two decades Tony has completed several courses of study, most of which have been with McMaster University. The work at Thordon allows Tony to use his full scope of experience and also gives him the opportunity to innovate new solutions, while making the world a better place.



### **Thordon Bearings Inc:**

Thordon Bearings Inc., a Thomson-Gordon Group company, is a family-owned business manufacturing high performance, oil and grease-free bearing systems, seals and other shaft line products for the global marine, clean power, pump, and industrial markets. Thordon Bearings is located in Burlington, Ontario.