

Why Electric Ships?

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With Guest Lecturer Dr. Norbert Doerry

Technical Director of the NAVSEA SEA 05 Technology Office



Dr. Norbert Doerry

Abstract

Ships have incorporated electrical distribution systems beginning in the 1870s and ship designs have included electric propulsion since 1903. This lecture will describe why designers of different types of ships, both commercial and naval, have elected to use electric drive, and why the United States Navy may find Integrated Power Systems beneficial on future warships.

Biography

Dr. Norbert Doerry is the Technical Director of the NAVSEA SEA 05 Technology Office. In addition to leading special projects, Dr. Doerry facilitates the transition of technology from industry and academia into naval warships. He retired from active duty in the United States Navy in 2009 as a Captain with 26 years of commissioned service, 23 years as an Engineering Duty Officer. In his final billet, he served for nearly six years as the Technical Director for Surface Ship Design. Dr. Doerry is a graduate of the United States Naval Academy and MIT. He currently is focused on developing Medium Voltage DC (MVDC) Integrated Power and Energy Systems (IPES) for future warships, institutionalizing Set-Based Design within the U.S. Navy, and facilitating the introduction of flexibility and modularity features in future U.S. Navy warships.



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