



**The Institute of Electrical and Electronics Engineers  
(IEEE)**



**Joint GBS Societies Chapter(PES)  
ON-LINE PRESENTATION**

**ONLINE MEETING**

**“A brief history of the history of Electrification aboard ships  
and some notes on the present State of the Art.”**

**Friday May 1st, 2020, 11:30 AM-12:30 PM**

**PRESENTER: Milt Korn, Chief Engineer, Texas A&M University**

**ABSTRACT:** The first reported use of electricity aboard a vessel is in 1839 when a battery was used to propel a small boat. In the intervening years electrification has progressed in step with available technology; replacing steam power with DC, DC with AC and AC with DC. Various sources of historical information are available to track the advancements. In our times electrification has come full circle where modern technology has facilitated more economical implementation of concepts and ideas that were demonstrated more than 100 years ago and then swept away. A brief exploration of the development of speed control of motors, both AC and DC will be covered along with developments in the piping systems associated with these motors as well the evolution of electrical hybrid technology.

**PRESENTER: Milton Korn** joined Texas A & M Galveston in September of 2017 as a lecturer in electrical power, automation and control. In September of 2018 he was appointed as Chief Engineer of the integrated diesel electric Training Ship General Rudder and as a Professor of the Practice. Prior to joining Texas A & M he was a Managing Senior Principal Engineer at the American Bureau of Shipping in Houston, TX, leading the Electrical & Controls Group within the Corporate Offshore Technology Division. His research efforts focused on subsea electrification including subsea power system analysis; rotating electrical machinery for subsea and down hole installation; subsea wireless communication to facilitate in-service survey and DC power systems. Prior to joining ABS he was the Director of Electrical & Automation Systems for Celebrity Cruise, a wholly owned subsidiary of Royal Caribbean Cruise where he provided technical and logistical leadership for a fleet of 11 operating passenger vessels while mentoring a staff of over fifty electrical officers. He has participated in numerous planned dry-docking events, emergency dry-dockings, commissioning of new construction and repairs/remanufacturing of inverter and direct line fed large high voltage propulsion and thruster motors, propulsion drives and machinery automation systems. He holds a current Chief Engineers License with STCW endorsement, is a Registered Professional Engineer in NY and NJ.

**COMPLIMENTRY REGISTRATION**

**\*\*PLEASE register by COB Wednesday April 29, 2020 by emailing your name, IEEE Member/non-member, and IEEE society member (if any) to Dr Zafar Taqvi to [Z.TAQVI@IEEE.ORG](mailto:Z.TAQVI@IEEE.ORG)**

**\*\*All those registered will be provided on-line sign in details. Meeting open only to those registered**

**Online Meeting Host:** Dr Irfan Khan, Instructional Assistant Professor | Dept. Marine Engineering Tech. (TAMUG)  
Vice Chair/PES (Joint Societies Chapter/IEEE Galveston Bay Section)

Reservations to attend this meeting should be made by email to: Dr Zafar Taqvi  
[Z.TAQVI@IEEE.ORG](mailto:Z.TAQVI@IEEE.ORG)