Session Program

1-6 Jul 2025



MT29 Abstracts and Technical Program

Thu-Mo-Or2 - Rotating Machinery II

Omni Boston Hotel at the Seaport 450 Summer Street Boston, MA 02210

Thursday 3 July

10:45

Thu-Mo-Or2 - Rotating Machinery II

Session | Location: Momentum EFG

10:45-11:00

Thu-Mo-Or2-01: Design of a 2MW REBCO Fully Superconducting Synchronous Generator with Saddle-Shaped Field coils and Distributed Armature Windings

Speaker

Hiroshi Miyazaki

11:00-11:15

Thu-Mo-Or2-02: Retrofitting Closed-Loop Rotor-Mounted Cryocooler Superconducting Rotor into an Induction Motor: Design, Analysis, Assembly Procedure, and Experimental Results

Speaker

Thanatheepan Balachandran

11:15-11:30

Thu-Mo-Or2-03: SPEEDY_HTS - An HTS rotor for an uprated mid-speed wind power generator

Speaker Prof. Tabea Arndt

11:30-11:45

Thu-Mo-Or2-04: Development of low AC loss, high purity aluminum (HPAL) and MgB2 conductors and magnets to enable high power density motors and generators

Speaker

Mike Tomsic

11:45-12:00

Thu-Mo-Or2-05: Robust, high current HTS-2212 wire, cables and coils for ac and fast ramp applications

Speaker Dr Alexander Otto

12:00-12:15

Thu-Mo-Or2-06: Modular consequent pole direct-drive superconducting generator for offshore wind

Speaker

Dr David Torrey

12:15-12:30

Thu-Mo-Or2-07: Conduction cooling test of salient-pole no-insulation HTS field winding for synchronous motor

Speaker Jonghoon Yoon

12:30-12:45

Thu-Mo-Or2-08: Transport Properties and AC loss measurements of low AC loss BSCCO 2212 racetrack Coils

Speaker Mr Jin Kwon

12:45