

Session Program

26-29 Oct 2026

5th IWC-HTS International Workshop on Cooling Systems for HTS Applications

Poster session

University of Twente, Waaier
Hallenweg 23 7522 NH Enschede Netherlands

Wednesday 28 October

13:45

Poster session

Session | **Location:** University of Twente, Waaier, Hallenweg 23 7522 NH Enschede Netherlands

13:45-14:45

Inductive Current Distribution Sensing on HTS CORC Cables: Simulation, Design and Measurement

Speaker

Jurrie Bruggeman

13:45-14:45

Multidisciplinary design optimization of cryogenic mixed-refrigerant cycles

Speaker

Mr Jakob Reichert

13:45-14:45

Current Transport Experiments on REBCO Coated Conductors in Liquid Neon Compared with Liquid Hydrogen Experiments

Speaker

Rise Takagi

13:45-14:45

Three Approaches to 20 K Pulse Tube Cryocoolers for High-Temperature Superconducting Applications

Speaker

SHURUI ZHANG

13:45-14:45

A Modular Distributed Cryogenic Cooling Solution for Long-Distance HTS Power Cables

Speakers

Xiaotao Wang, Mr Haibing Li

13:45-14:45

A helium gas-cooled test bench for hyper- and superconducting aviation cables.

Speaker

Margreet ter Schure

13:45-14:45

Integrated DC Qualification of a Single High-Temperature Superconducting Cable Link for Cryogenic Electric Propulsion

Speaker

Prof. Wei Wang

13:45-14:45

Experimental Study on Large Cooling Capacity GM-JT Cryocooler in Liquid Helium Temperature Range

Speaker

Dr Yunhao Cui

13:45-14:45

Morphing a (nano) 0.002"D M5 (Mach 5) HSS (hypersonic stochastic switch) USP9550586B2 (choke) into an enumerated 0.001K superconductive electron/stripping QQTRON© (CHOKE) consisting essentially of a compounded/shafted aperture wherein $H\psi = E\psi$ with ψ = Schrödinger wave function of the (quantum/relativistic) Hamiltonian $\mathbb{H}$ flux, a warp.

Speaker

Charles Janeke

13:45-14:45

Experimental comparison of the heat transfer performance of conventional copper braids and neon pulsating heat pipes as thermal links between a cryocooler and an HTS coil

Speaker

Jacob Cornelis Maris

13:45-14:45

TITLE: Morphing a (nano) 0.002"D M5 (Mach 5) HSS (hypersonic stochastic switch) USP9550586B2 (choke) into an enumerated 0.001K superconductive electron/stripping QQTRON© (CHOKE) consisting essentially of a compounded/shafted aperture wherein $H\psi = E\psi$ with ψ = Schrödinger wave function of the (quantum/relativistic) Hamiltonian $\mathbb{H}$ flux, a warp.

Speaker

Charles Janeke

13:45-14:45

Development of a high-capacity, high-efficiency GM Cryocooler and supercritical helium circulating cooling system for HTS applications

Speaker

Dr Yingzhe Wu

15:00