

Session Program

May 18 - 22, 2025



CEC/ICMC 2025 Abstracts & Technical Program

C20r4C - Cryogenic Components III

Peppermill Reno
2707 S. Virginia St. Reno, NV 89502

Tue, May 20

4:15 PM

C2Or4C - Cryogenic Components III

Session | **Location:** Capri 4 | **Conveners:** Maria Barba, Dr Ram Dhuley

4:15 - 4:30 PM

C2Or4C-01: Development of a two-phase, variable nozzle jet-pump for pressure control in liquid hydrogen systems

Speaker

Yulia Gitter

4:30 - 4:45 PM

C2Or4C-02: Design and testing of a submersible laboratory-sized cryogenic liquid hydrogen pump

Speaker

Henrik-Gerd Bischoff

4:45 - 5:00 PM

C2Or4C-03: Lightweight, high-flow valve for cryogenic propellant management on aircraft and spacecraft

Speaker

Lucas O'Neill

5:00 - 5:15 PM

C2Or4C-04: Enhanced Power Control and Maintenance-Free Turbine Retrofit in a Cryogenic Hydrogen Process for Tritium Removal

Speaker

Mr Johannes Schreiber

5:15 - 5:30 PM

C2Or4C-05: Development and validation of a 1D oil-injected screw compressor model for helium cryogenic system applications

Speaker

Mr Scott Anthony

5:30 - 5:45 PM

C2Or4C-06: Modeling and Analysis of Graded Heat Exchangers for Cryogenic Power System of Electric Aircraft Using the AeroCryoX

Speaker

Chul Han Kim

5:45 - 6:00 PM

C2Or4C-07: Gas bearing turbo compressor and expander technology for cryogenic applications

Speakers

Mr Martin Bartholet, Patrik Fröhlich

6:00 PM