

## Session Program

18-22 May 2025



# CEC/ICMC 2025 Abstracts & Technical Program

## *C1Po1A - Hydrogen Cooling and Test Facilities*

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

# Monday 19 May

09:15

## C1Po1A - Hydrogen Cooling and Test Facilities

Poster Session | Location: Exhibit Hall, Tuscany Ballroom

### C1Po1A-11: Mega-Scale Liquid Hydrogen (LH2) Storage for Energy Storage & Transportation

**Speaker**

Shanaka Kristombu Baduge

### C1Po1A-04: Design calculation and analysis of a coiled-tube heat exchanger and a condenser for a cryocooler-cooled LH2 target cooling system

**Speakers**

Li Wang, Lianrong Xu

### C1Po1A-05: Spallation Neutron Source Upgrade Status and Operational Success of the Cryogenic Moderator System

**Speaker**

Mr Rocky Armstrong

### C1Po1A-06: Updated design of the ESS cryogenic moderator system

**Speaker**

Dr Hideki Tatsumoto

### C1Po1A-07: Design of a Laboratory-Scale Hydrogen Liquefier Cold Box for Low-Altitude Economy and Modular Deployment

**Speaker**

Jihao Wu

### C1Po1A-08: Study on Zero Boil-Off of Liquid Hydrogen using a Single Stage GM cryocooler

**Speaker**

Yutaro Koike

### C1Po1A-09: Impact of wave breaking on heat and mass transfer in a horizontal circular tank under non-isothermal sloshing conditions.

**Speaker**

Mr Stuart Colville

### C1Po1A-10: Hydrogen permeability of fiber-reinforced thermoplastics under cryogenic conditions

**Speaker**

Maximilian Grabowski

### C1Po1A-02: Active Magnetic Regenerative Refrigerator (AMR) with rotating permanent magnet for liquid hydrogen

**Speaker**

Kyohei Natsume

### C1Po1A-01: Numerical simulation of active magnetic regenerative refrigeration for hydrogen liquefaction

**Speaker**

Dr Koji Kamiya

**C1Po1A-03: Effect of helium-neon composition in Brayton refrigeration cycle for hydrogen liquefaction**

**Speaker**

Prof. Ho-Myung Chang

11:00