

## Session Program

18-22 May 2025



# CEC/ICMC 2025 Abstracts & Technical Program

## *C3Po1D - Liquid Hydrogen Transfer Components*

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

## Wednesday 21 May

09:15

### C3Po1D - Liquid Hydrogen Transfer Components

Poster Session | Location: Exhibit Hall, Tuscany Ballroom

#### **C3Po1D-05: Fundamental insights into liquid hydrogen flow boiling: bubble dynamics and flow characteristic parameters**

**Speaker**

Dr Shaolong Zhu

#### **C3Po1D-01: Simulation and experiment of a hydrogen pump with an integrated closed impeller**

**Speaker**

Ziwei Li

#### **C3Po1D-02: Performance improvement of a hydrogen condensation heat exchanger applying intermittent reciprocating flow**

**Speaker**

Mr Tsuyoshi Shirai

#### **C3Po1D-03: Top Load Cryogenic Large Size Ball Valves With Focus on Liquefied Hydrogen and Helium**

**Speaker**

Mr Ander Gabirondo

#### **C3Po1D-04: Development of quick connect liquid hydrogen coupler utilizing 3D printing**

**Speakers**

Alexis Williams, Reagan Dodge

#### **C3Po1D-06: Dynamic Characteristics of Transfer Processes in Port-Based Liquid Hydrogen Receiving Terminals**

**Speaker**

Xinyu Lu

#### **C3Po1D-07: Optimization of liquid hydrogen tank-to-tank transfer: A comparative study of six transfer systems**

**Speaker**

Haoran Gan

#### **C3Po1D-08: Stress Distribution and Sealing Performance Analysis of Metal Sealing Joints in Liquid Hydrogen Pipelines**

**Speaker**

Ms Yihan Tian

#### **C3Po1D-09: Simulation Study on the Thermal Insulation Performance of Liquid Hydrogen Transport Pipelines**

**Speaker**

Ms Yihan Tian

#### **C3Po1D-10: A novel nozzle design method for hydrogen Turbo-Expanders**

11:00

**Speakers**

Changlei Ke, Mr Hongmin Liu