

## Session Program

18-22 May 2025



# **CEC/ICMC 2025 Abstracts & Technical Program**

## ***M4Or1B - Hydrogen Technology and Compatible Materials***

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

## Thursday 22 May

09:30

### M4Or1B - Hydrogen Technology and Compatible Materials

Session | Location: Naples 4/5

09:30-09:45

#### M4Or1B-01: Carbon-fiber Composite Cryogenic Tank for Liquid Hydrogen: Thermo-structural Analyses

**Speaker**

Dr Sreenivasa Voleti

09:45-10:00

#### M4Or1B-02: Investigating the effect of cryogenic conditions on the elastic behaviour of fibre-reinforced polymer composite materials under tensile loading

**Speaker**

Nassos Spetsieris

10:00-10:15

#### M4Or1B-03: Piezometric properties of 3D-printed composites at cryogenic temperatures

**Speaker**

Satyajit Mojumder

10:15-10:30

#### M4Or1B-04: Thermal performance of common bulk-fill cryogenic insulation materials in helium and hydrogen background gasses

**Speaker**

Adam Swanger

10:30-10:45

#### M4Or1B-05: Investigating dual electrospinning as a means of enhancing passive thermal control coatings for cryogenic propellant storage in extraterrestrial environments

**Speaker**

Adrien Neveu

10:45-11:00

#### M4Or1B-06: Design and cryogenic mechanics finite element analysis of a novel sandwich structure mouth for Type V storage vessels

**Speaker**

Lianji Li

11:00-11:15

#### M4Or1B-07: Study on cryogenic mechanical and gas-barrier properties of graphene oxide modified epoxy resin

**Speaker**

Mr Junjie Chai

11:15