

Session Program

18-22 May 2025



CEC/ICMC 2025 Abstracts & Technical Program

M20r2A - Low Temperature Properties of Austenitic and Maraging Steels

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

Tuesday 20 May

11:15

M2Or2A - Low Temperature Properties of Austenitic and Maraging Steels

Session | Location: Naples 4/5

11:15-11:30

M2Or2A-01: Numerical and Experimental Investigation of Deformation Induced Martensitic Transformation in Fused Filament Fabricated Austenitic Stainless Steel for Cryogenic Applications

Speaker

Daniela Schob

11:30-11:45

M2Or2A-02: Electromagnetic properties of austenitic stainless steels in cryogenic, high magnetic field environments

Speaker

Polina Ermoshkina

11:45-12:00

M2Or2A-03: In-Situ and In-Operando Monitoring of Laser and Electron Beam Welding Processes for Austenitic Stainless Steels

Speaker

Boyd Panton

12:00-12:15

M2Or2A-04: Low-Temperature Fatigue and Fracture Properties of Maraging C250 Steel

Speaker

Mr Robert Walsh

12:15-12:30

M2Or2A-05: First Approximation for Unified Fatigue Models for 316 Stainless Steel and IN718 Materials at 4K, 77K & 293K from Monotonic Material Properties

Speaker

Raymond Kersey

12:30-12:45

M2Or2A-06: In-Situ Monitoring of Strain Field Evolution and Dissipative Effects at Cryogenic Temperatures (77K): Insights into Advanced Materials for Superconducting and Hydrogen Storage Applications

Speaker

Jakub Tabin

12:45