



# Opportunities and Challenges with Cold Spray in Industry

18<sup>th</sup> March 2025

## AGENDA

**Objective:** To facilitate discussions to understand the challenges and opportunities in advancement of Cold Spray as a technology in pioneering sustainable and innovative solutions for material repair, surface enhancement/functionalisation, and additive manufacture.

09.00	Registration and Refreshments	
9:30	Welcome address	John Hill Director of Technology & Strategy, TWI
<b>Session 1</b> Chairperson – Ben Robinson, TWI		
UKAEA Fusion Industry Programme- Phase II		
9:40	Keynote talk from UKAEA	Miguel-Zavala Arredondo Senior Fusion Technologist UKAEA
10:00	Cold spray additive manufacture of materials for plasma facing fusion applications	Phil McNutt Principal Engineer TWI
10:20	Cold Spray Additive Manufacturing of Oxide Dispersion Strengthened Alloys	Dibakor Boruah Senior Project Leader - Surface, Corrosion, and Interface Engineering TWI
Coffee Break		
Cold Spray Application Cross Industry Sections		
11:00	The potential of CS in nuclear sector: examples from fusion and Gen IV fission	Jan Cizek Institute of Plasma Physics of the Czech Academy of Sciences



11.20	Cold Spray Propellant Tank Development for Cubesat Ion Propulsion System	Neil Wallace Senior Electric Propulsion (EP) Engineer The European Space Agency
11.40	The Tokamak Energy Approach to Fusion Material Challenges	Jim Pickles Head of Reactor Materials Tokamak Energy
12:00	Applications and challenges with Cold Spray	Phil McNutt TWI
<b>Cold Spray Supply Chain Developments</b>		
12:20	Powder Characteristics required to meet the challenges for widespread adoption of Cold Spray Additive Manufacturing (CSAM)	Gordon Kerr CEO Metal Powder Emergence (MPE) Ltd
12.40	Equipment manufacturer	Klaas Rozema President of the EMEA Titomic
<b>Lunch</b>		
<b>Session -2</b> Chairperson – Melissa Riley, TWI		
13:45	Panel Discussion: Future of Cold Spray in Industry	
14.15	Lab tour	
15.15	TWI Cold Spray Strategy	Ben Robinson TWI
15.45	Final Comments	Ben Robinson TWI
16.00	Meeting closure	