



Opportunities and Challenges with Cold Spray in Industry

18th 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.

9:30	Welcome address	Ben Robinson Section Manager TWI Ltd
9:40	A brief history of TWI	John Hill Director TWI Ltd
UKAEA Fusion Industry Programme- Phase II		
9:50	Key note talk from UKAEA	Paul Goodwin Manufacturing Technology & Equipment Qualification Group Leader UKAEA
10:00	CSAM	Phil McNutt Senior Project Leader TWI Ltd
10:15	Cold Spray Additive Manufacturing of Oxide Dispersion Strengthened Alloys	Dibakor Boruah Senior Project Leader TWI Ltd
Refreshments		
Cold Spray Application Cross Industry Sections		
10:45	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



11.00	Cold Spray Propellant Tank Development for Cubesat Ion Propulsion System	Neil Wallace Senior Electric Propulsion (EP) Engineer European Space Agency
11.15	The Tokamak Energy Approach to Fusion Material Challenges	Jim Pickles Head of Reactor Materials Tokamak
12:00	Key Note talk by TWI	Phil McNutt Senior Project Leader TWI Ltd
Cold Spray Supply Chain Developments		
12:20	Powder Characteristics required to meet the challenges for widespread adoption of Cold Spray Additive Manufacturing (CSAM)	Gordon Kerr CEO Metal Powder Emergence Ltd
12.40	Equipment manufacturer	Klaas Rozena President, EMEA Region Titomic
Lunch		
13:45	Panel Discussion: Future of Cold Spray in Industry	John Ruddleston Senior Nuclear and Defence Sector Manager TWI Ltd
14.15	Lab tour / Workshop	
15.15	TWI Cold Spray Strategy	Ben Robinson/Phil McNutt TWI Ltd
15.45	Final Comments	Ben Robinson TWI Ltd
16.00	Meeting closure	