



TWI Aerospace Panel and Innovation Conference
19 and 20 April 2023
Venue: TWI Ltd, Granta Park, Great Abington, Cambridge CB21 6AL, UK
Day One

08:30	Arrival and Refreshments			
09:00	Welcome and Introduction – John Hill, Paul Woollin and TWI’s Aerospace Team, TWI Ltd			
09:45	Key note – Iain Minton: The Challenges for the Future of Aerospace in Defence, BAE Systems			
10:30	Move to Theme Sessions			
	Room 1 – Sustainable Aviation		Room 2 – Advanced Manufacturing	
10:30	Boeing, Joe Fixter - Boeing's path through a new era of innovation		UKSA, Helen Roberts - GSTP Programme	
10:50	Guest speaker - TBC		TWI Ltd, Alan Taylor - Emerging challenges and opportunities for surface engineering and advanced coatings in the space sector	
11:10	TWI Ltd, Melissa Riley – Hydrogen compatibility		Think Orbital, Sebastian Asprella – Scalable space infrastructures for In-space manufacturing	
11:30	TWI Ltd, Yingwei Wu – Coating Technologies for Hydrogen		TWI Ltd, Colin Ribton – Electron Beam Welding in Space	
11:50	Rolls-Royce, Clive Grafton-Reed - setting out the challenges and the opportunity for supply chain		TWI Ltd, Stuart Lewis - Composites	
11:10	TWI Ltd, Chris Allen – Welding of batteries		TWI Ltd, Graham Edwards – Digital Twin & Structural Health Monitoring	
12:30	Lunch break + Exhibition + Meet the experts			
14:00	Membership value and TWI’s Core Research Programme – Ian Froment, TWI Ltd			
14:20	Key note - Matthew Bailey: Funding models for supply chain development, Aerospace Technology Institute			
14:40	JIP Panel Discussion			
15:00	Move to Panel Meetings – Technology Roadmaps for Space and Aerospace			
	Room 1 – Aerospace Panel Meeting		Room 2 – Space Panel Meeting	
	<i>Iain Minton</i>	<i>BAE Systems - Air</i>	<i>Sebastian Asprella</i>	<i>Think Orbital</i>
		<i>TBC</i>	<i>Andrew Norman</i>	<i>ESA</i>
	<i>Richard March</i>	<i>Rolls-Royce Aero</i>	<i>Helen Roberts</i>	<i>UK Space Agency</i>
16:00	Tour of TWI Facilities			



17:00	Reception
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09:00	Arrival and Refreshments	
09:30	Keynote – Andy Norman, European Space Agency	
10:00	TWI Keynote – Non Destructive Testing – Ian Cooper, TWI Ltd	
10:30	Move to Theme Sessions	
	Room 1 – Advanced Manufacturing	Room 2 – Power and Propulsion in Space
	TWI Ltd – Anna Wojdyla - Addressing the problem of icing in the aerospace sector	Guest speaker - TBC
	TWI Ltd, Carl Hauser - Laser Additive Manufacturing	Rolls-Royce, Matthew Marriott - Nuclear micro-reactor for space
	TWI Ltd, Tyler London – Modelling of Advanced Manufacturing Processes	TWI Ltd, Raja Khan – Near Net Shape Manufacturing and Thermal Processing
	Rolls-Royce, Richard March – The Journey to Zero Defects	Guest speaker - TBC
	Parker LORD, Alexandre Kursner/Marc Papie - Clean Sky 2 - Engine Attachment System Summary	Mars Space Ltd, Francesco Guarducci – Electric Propulsion
	TWI Ltd, Kate Franklin - LFW for Near Net Shape	TWI Ltd, Phil McNutt – Cold spray AM
12:30	Lunch break + Exhibition + Meet the experts	
14:00	Networking	