

## 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 and Refreshments			
	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	GKN, Dan Graham - 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 As prella – 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 chal opportunity for supply chain	lenges and the	TWI Ltd, Stuart Lewis - Composites	
11:10	TWI Ltd, Chris Allen – Laser welding for electrification	n	TWI Ltd, Graham Edwards – Digital Twin & Structural	Health Monitoring
12:30	Lunch break + Exhi bition + Meet the experts			
14:00	Members hip 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 and Refreshments			
	Room 1 – Aerospace Panel Meeting		Room 2 – Space Panel Meeting	
	lain Minton	BAE Systems - Air	Sebastian Asprella	Think Orbital
	Dan Graham	GKN	Andrew Norman	ESA
	Richard March	Rolls-Royce Aero	Helen Roberts	UK Space Agency
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 and Refreshments			
	Room 1 – Advanced Manufacturing	Room 2 – Power and Propulsion in Space		
	TWI Ltd , Anna Wojdyla – Addressing the problem of icing in the aerospace sector	Frazer-Nash, Peter Entwistle – The Techno-Economics of Space Based Solar		
		Power		
	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	Guests peaker - TBC		
	Parker LORD, Alexandre Kursner/Marc Papie – Clean Sky 2 – Engine Attachment	Mars Space Ltd, Franco Bosi – Electric Propulsion		
	System Summary System Summary			
	TWI Ltd, Kate Franklin - LFW for Near Net Shape	TWI Ltd, Phil McNutt – Cold spray AM		
12:30	Lunch break + Exhi bition + Meet the experts			
14:00	Networking Networking			