

Defence Materials Technical Symposium

26th & 27th November 2025, Bristol

Day One Agenda

Wednesday 26th November - Technology and Early Careers Day		
Plenary session 1		
9.15	HSE briefing	
9.20	Opening remarks and introduction to the DME _x programme	DME _x /Dstl
9.35	Keynote: Delivering S&T at pace - Supporting the Strategic Defence Review	Dstl
10.00–10.30	BREAK	

Breakout Session One

ASTRAL		
Air Domain		
10.30	The Air domain programme	Dstl
10.40	Keynote: Future Combat Air Systems	Royal Air Force
11.05	Partner presentation: Delivering Materials 4.0 for Defence	FNC
11.25	Industry Speaker: Key Materials challenges in the Air sector	BAE Systems - Air
11.45	Partner presentation: Multi-scale modelling of Composites	Univ. of Bristol
12.05	Materials Passports	Univ. of Sheffield
	Transformative Asset Management for Defence	Cranfield University
	H-assisted cracking of Aluminium alloys	Univ. of Manchester

TERRAN		
Land Domain		
10.30	The Land Domain programme	Dstl
10.40	Keynote: Drivers and challenges in the Land environment	Dstl
11.05	Partner presentation: FAST: Closed loop recycling in the Defence domain	Univ. of Sheffield/ Advanced Forming Research Centre
11.25	Industry speaker: Meeting the Land Challenge	TBD
11.45	Armour Ceramic Development and Exploitation	TBD
12.05	The use of TWIP/TRIP steel in armour applications	Imperial College
	Body armour for extremity protection	Univ. of Swansea
	Metal Matrix Composites for armour applications	Univ. of Sheffield

12.20	LUNCH, POSTER SESSION AND EXHIBITION	
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Breakout Session Two

ASTRAL		
Space Domain		
13.15	The Space Domain programme	Dstl
13.25	Keynote: Space Command: Key technology drivers	Space Command
13.50	Partner presentation: Delivering an integrated Space test infrastructure for the UK	Univ. of Manchester
14.10	Industry Speaker: Key Materials challenges in the Space sector	Airbus
14.30	Partner presentation: In-orbit manufacture and repair	TWI
14.50	NDE for Space Applications	Amentum
	Space Applications Catapult: Capability overview	SAC
	Additive Manufacturing for Space	MTC

TERRAN		
Maritime		
13.15	The Maritime Domain challenge	Dstl
13.25	Keynote: Modernisation and Innovation in Naval platforms	Naval Authority and Technology Group
13.50	Partner presentation: WAAM for large naval structures	Cranfield
14.10	Industry Speaker: Key challenges in the Marine environment.	Rolls-Royce - Nuclear
14.30	Partner presentation: Rapid alloy development of future maritime steels	Imperial College
14.50	Composites fire effects (not on contract)	University of Greater Manchester
	High Entropy Alloy development	University of Swansea
	Thermal Management	University of Sheffield

15.05-15.30	BREAK
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Breakout Session Three

ASTRAL		
Effectors Domain		
15.30	The Effectors programme	Dstl
15.40	Keynote: Delivering sovereign capability	Team Hypersonics
16.05	Partner presentation: Developments in Graded CMCs	Univ. of Birmingham
16.25	Industry speaker: Delivering UK capability	MBDA
16.45	Partner Presentation HVOF ablation testing of CMCs	TWI
17.05	Forged UHT ceramics	Lucideon
	Wood phenolic LSI composites	Imperial College
	Wet-winding of CMCs	NCC

TERRAN		
Pan Domain		
15.30	Introduction to the Pan-domain programme	Dstl
15.40	Laser - DEW: Simulation of Laser-Material interactions	University of Manchester
16.05	Composites for Defence	NCC
16.25	Additive Manufacturing: Delivering for Defence	MOD
16.45	Automating the generation of digital twins and parameter optimisation for modelling dynamic response of materials	University of Oxford
17.05	Laser-DEW of Composites	NCC
	Small-scale test methods	Cranfield University
	Advanced Manufacturing: Friction Stir Welding	TWI

17.20	Close of Session
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17.45	Reception
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Day Two Agenda

Thursday 27th November - Senior Stakeholder Day		
Plenary session 2 - The Landscape		
9.00	HSE briefing	DMEx
9.05	Opening remarks - Day 2 introduction	DMEx
9.15	Keynote: Transforming our delivery: The role of Science and Technology in supporting the SDR	MOD DST
9.40	Transforming our delivery: The role of DMEx in delivering the Advanced Materials Programme.	Dstl
9.55	Panel: How should Industry, Academia and Defence work together to deliver UK S&T capability for Defence?	Senior panel members from MOD/Dstl/ HVMC/Industry/Academia

10.45	BREAK
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Plenary 3 - Working Together		
11.15	Delivering Defence Innovation	MOD
11.40	Exploiting capability: The role of the Materials Exploitation Group in DMEx.	Dstl/DMEx
11.45	Panel: How do we drive Innovation and accelerate technology transfer in the Defence sector?	Senior panel members from MOD/Dstl/ HVMC/Industry/Academia

12.35	LUNCH, POSTER SESSION AND EXHIBITION
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Plenary 4 - Securing the future skills base: Early Careers and SQEP		
13.35	Introduction to skills session	TBD
13.55	Panel: How do we build and maintain UK S&T skills capability for Defence?	Senior panel members from MOD/Dstl/ HVMC/Industry/Academia
14.45	DMEEx Closing remarks and comments	DMEEx
15.00	COFFEE & NETWORKING	
15.40	Close of Day 2	