

## **OFEME Symposium 2024: Agenda**

## Electromagnetic Environment (EME) Hub

Day 1: 19<sup>th</sup> November

### Operating in the Future Electromagnetic Environment

Time	Loch	Hall 1	Alsh 1	Alsh 2	Boisdale 1	Boisdale 2	Hall 2		
10:00 - 11:00							Registration poster setup		
11:00 - 11:10	<b>Opening</b> Phil Sparrow								
11:10 - 11:50	<b>Keynote</b> Roger McKinlay: The Electromagnetic Environment in a Post Quantum World								
11:50 - 12:00	Break + Room change								
12:00 - 13:00	Technical Talks: Future Antennas Marcus Walden: An Efficient, Electrically Small, Multiple- Tuned Antenna for HF  Tak 2 TBC	Panel Discussion Future of spectrum sharing	Workshop Space: Dual use (TBC)	<b>Workshop</b> PhD Presentations	Workshop One to watch (TBC)	Workshop Optical sensing for addressing MOD's Space Domain Awareness Requirements	Poster session and sponsorship stands (unattended)		
13:00 - 14:00	-	-	-	-	-	-	Lunch		
14:00 to 14:40	<b>Keynote</b> Sarah Connolly								
14:40 to 14:50	Break + Room change								
14:50 - 16:25	Technical Talks: Enabling and exploiting on autonomous systems Mark Hawkins: Autonomy for RF comms and sensing - enablers and technical challenges Talk 2 and 3 TBC	Panel Discussion Resilient PNT	Workshop Towards EMSO - Operational Advantage and Challenges	<b>Workshop</b> Space Commander Wargame	Workshop IET - Integrate new antenna concepts with agile radio systems and agile networks	Workshop Use of the ionosphere, over the horizon Radar and Comms (TBC)	Poster session and sponsorship stands (unattended)		
16:25 - 16:40	Break + Room change								
16:40 - 17:00	Workshop & end of day wash-up								



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Day 2: 20<sup>th</sup> November

### Operating in the Future Electromagnetic Environment

Time	Loch	Hall 1	Alsh 1	Alsh 2	Boisdale 1	Boisdale 2	Hall 2		
09:30 - 09:40	Opening		-	-	-	-	-		
09:40 - 10:20	<b>Keynote</b> Air Cdre Hugh Smith								
10:20 - 10:30	Break + Room change								
10:30 - 11:30	Technical Talks: Electronic Systems Edward Wasige: Terahertz Wireless Links: State of the Art, Challenges and Opportunities  Merlyne De Souza: Navigating Efficiency and Linearity in RF Power Amplifiers TBC	Panel Discussion Quantum: How close are we to fielding?	<b>Workshop</b> PhD Presentations	<b>Workshop</b> Gaming for EW (TBC)	Workshop Sensor Fusion & Management (TBC)	<b>Workshop</b> Disaster Relief (TBD)	Poster session and sponsorship stands (unattended)		
11:30 - 11:40			Break + I	Room change					
11:40 - 12:20	<b>Lightning talks</b> by early career researchers								
12:20 - 13:00			-	-	-	-	Poster session (attended)		
13:00 - 14:00	-	-	-	-	-	-	Lunch		
14:00 - 14:40	<b>Keynote</b> Tim Watson: Agility and Resilience in the EME								
14:40 to 14:50	Break + Room change								
14:50 - 16:25	Technical Talks: Space Malcom Macdonald: Next-Generation Space Operations  Cathryn Mitchell: Space Weather Effects on Radio Systems	Panel Discussion Developing SQEP TBC	<b>Workshop</b> National Spectrum Centre	Workshop Everybody needs time: but to what accuracy?	Workshop Towards EMSO - Operational Advantage and Challenges	Workshop Understanding, communicating and managing uncertainty in the EME	Poster session and sponsorship stands (unattended)		
16:25 - 16:40	Break + Room change								
16:40 - 17:00	Workshop & end of day wash-up								
17:00 - 18:30							Drinks reception		



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Operating in the Future Electromagnetic Environment

### Day 3: 21st November

Time	Loch	Hall 1	Alsh 1	Alsh 2	Boisdale 1	Boisdale 2	Hall 2		
09:30 - 09:40	Opening								
09:40 - 10:20	<b>Keynote</b> Doug Paul: Quantum enabled position navigation and timing		-	-	-	-	-		
10:20 - 10:30	Break + Room change								
10:30 - 11:55	Technical Talks: Al-enhanced signal processing, decision making and assurance Victoria Nockles: Al vulnerabilities and deception for automated detection and classification in SAR images  Gaetano Di Caterina: Neuromorphic technologies for efficient spike processing  James Hopgood:	Panel Discussion Implications of Climate change including space weather	<b>Workshop</b> National Spectrum Centre	Workshop Everybody needs time: but to what accuracy?	<b>Workshop</b> Space Commander Wargame	<b>Workshop</b> PhD Presentations	Poster Session and sponsorship stands (unattended)		
	TBC								
11:55 - 12:05			Break +	Room change					
12:05 - 12:25	Workshop wash-up								
12:25 - 13:30	-	-	-	-	-	-	Lunch		
13:30 - 14: 30	Technical Talks: Quantum sensing, timing and communications Richard Claridge: Quantum enhanced communications with Rydberg atoms – pros, cons and lessons learned  Krishna Coimbatore Balram: Towards efficient nanoscale interfaces for microwaves: light, sound and spins Krishna	Panel Discussion Working with Dstl: Commercial and IP	Workshop Hybrid Architecture for Multi-mission space - backhaul challenges (TBC)	Workshop Operating in the Future Electromagnetic Environment	<b>Workshop</b> PhD Presentations		-		
14:30 - 14:40	Break + Room change								
14:40 - 15:00	Workshop & end of day wash-up								