

41st International Symposium on Military Operational Research
National Oceanography Centre, 16th – 18 July 2024
Programme

Updated 4 July 2024

Content and timings subject to change up to the start of the symposium.

Time Item

MONDAY 15th JULY 2024

1710 Out **Networking social to the Isle of Wight via ferry**
2005 Rtn Optional boat trip, with places offered to delegates in the order of registration.
Return ferry ticket and fish & chip dinner included.
Red Funnel Red Jet Terminal, 7 Town Quay, Southampton SO14 2AQ



TUESDAY 16th JULY 2024

0830 – 0900 REGISTRATION

0900 – 0930	Welcome and Introduction Symposium Chair will welcome delegates and Programme Chair will introduce the ISMOR 41 Programme.	
0930 – 1030	Keynote by Stephan De Spiegeleire , Principal Scientist at the Hague Centre for Strategic Studies (HCSS) <i>Are we punching below our weight? Leveraging the skill set of our OR&A community to bring more rigour and creativity to strategic decision making in defence and security</i>	
1030 – 1100	BREAK	
1100 – 1105	Introduction to Presentation Session 1a <i>Accounting for uncertainty</i> Price	Introduction to Presentation Session 1b <i>Multi-domain operations</i> Page
1105 – 1130	1a.1 Softer Methods for a Hard-to-Understand World: A Case Study in Competition Sinha	1b.1 Integrated Air and Missile Defence – why it’s not just about integration Omar
1130 – 1155	1a.2 Managing Uncertainty in the Analysis Process Barratt	1b.2 Multi-Domain Integrated Systems (MDIS) Operational Analysis (OA) modelling Ainger & Deith
1155 - 1220	1a.3 Modelling Military Adaptation Carling	1b.3 Assessing the utility of Non-Lethal Weapons Asquith & Chung
1220 – 1230	Presenters’ Q&A Panel	Presenters’ Q&A Panel
1230 – 1330	LUNCH	

Time	Item
1330 – 1500	Workshop Session A Option to attend one of four workshops running in parallel. <i>(Delegate sign-up will take place during the morning break).</i>
A1	From RAGs to Defense Analytical Richness: Large Language Models, Retrieval-Augmented Generation and Defense and Security Analysis DE SPIEGELEIRE HCSS <i>This workshop requires participants to have a laptop that can connect to open WiFi.</i>
A2	How can analysts help Defence decision makers when the only seemingly sensible answer is “it depends”? A demonstration using exploratory modelling ROCKETT & WILLIAMS DSTL
A3	Capability Planning: Exploring the shifts of scientific paradigms among Operations Analysts ROXSTRÖM FOI
A4	Pop-up CBRN - how to deliver specialist add-ons to mainstream wargames WOOD MORSHEAD CONSULTING
1500 – 1530	BREAK
1530 – 1630	MORS Eugene Visco Prize Winning Presentation Beard Infrastructure Systems as Institutional Relics Desai
1900	Informal Barbeque Dinner NOC



WEDNESDAY 17TH JULY 2024

0830 – 0900	REGISTRATION	
0900 – 0910	Welcome and Introduction Symposium Chair will welcome delegates and Programme Chair will introduce the ISMOR 41 Programme.	
0910 – 0955	Panel International research collaboration in OR Chair Ben Taylor DRDC Jim Squire DSTL Andrew Beard DSTL	
0955 – 1000	BREAK for room moves	
1000 – 1005	Introduction to Presentation Session 2a <i>Tools techniques & processes 1</i> Woodhall	Introduction to Presentation Session 2b <i>Space-based capabilities</i> Gould
1005 – 1030	2a.1 Adaptability Assessment Framework (AAF) Stewart	2b.1 Operational research in space Magil
1030 – 1055	2a.2 SCIFI Tillett	2b.2 Hypersonic weapons – what is the hype? Omar
1055 – 1100	Presenters’ Q&A Panel	Presenters’ Q&A Panel

Time Item

1100 – 1130 BREAK

1130 – 1135	Introduction to Presentation Session 3a <i>International concepts & planning</i> Croucher	Introduction to Presentation Session 3b <i>Advanced computer analytics</i> Fry
1135 – 1200	3a.1 Feasible, Applicable, Valid? Analysis in support of NATO Concept Development and Experimentation Sherburne & LtCol Juozaitis	3b.1 Using LLMs and RAG to examine (stated) differences between different 'ways of war' De Spiegeleire
1200 – 1225	3a.2 National and Alliance force planning - parallels and contrasts Richards & Taylor	3b.2 Effective Human-AI teaming Lucek
1225 – 1230	Presenters' Q&A Panel	Presenters' Q&A Panel

1230 – 1330 LUNCH

1330 – 1430	Workshop Session B Option to attend one of four workshops running in parallel. <i>(Delegate sign-up will take place during the morning break).</i>	
B1	Critical thinking: Understanding the relative criticality of infrastructure in Defence BUNN CATALYZE	
B2	Strategic analytics PARLIER INDEPENDENT	
B3	The problem of bad information ADAM ROKE	
B4	Wargame design methods – making the intangible tangible BAGWELL DSTL	

1430 – 1500 BREAK

1500 – 1545	Panel Wargaming Chair Pip Pepper Lockheed Martin Mike Bagwell DSTL Rory Kinane SONAC TBC Defence Wargaming Hub Dr Maeve Ryan KCL	1500 – 1505	Introduction to Presentation Session 4 <i>Policy</i> Price
		1505 – 1530	4.1 Assessing Women, Peace and Security in military operations Lackenbauer
		1530 – 1555	4.2 Hierarchical Structure of Brazilian Sovereignty: A Multi-Criteria Analysis of Defense Policy Variables Through the SAPEVO-H ² Method Frederico
1545 – 1630	Panel OR&A in NATO Chair Ben Taylor DRDC Glenn Richards NCIA Sue Collins ACT	1555 – 1620	4.3 Filling the Operational Vacuum: A Crie de Coeur Capt (Retd) Poole OBE & LtCol (Retd) Firth
		1620 – 1630	Presenters' Q&A Panel

1900 **Symposium Dinner**
Dancing Man Brewery

Time

Item

THURSDAY 18TH JULY 2024

0830 – 0900 REGISTRATION

0900 – 0915	<p>Welcome and Introduction</p> <p>Symposium Chair will welcome delegates and Programme Chair will introduce the ISMOR 41 Programme.</p>	
0915 – 1000	<p>Panel Understanding JSP 939</p> <p>Chair Pip Pepper Lockheed Martin</p> <p>Grant Bailey DMSO</p> <p>Andrew Beard DSTL</p>	

1000 – 1015 BREAK for room moves

1015 – 1020	<p>Introduction to Presentation Session 5a <i>Tools techniques and processes 2</i> Page</p>	<p>Introduction to Presentation Session 5b <i>Wargaming</i> Woodhall</p>
1020 – 1045	5a.1 Bridging the gap between soft and hard OR for rapid military Applications Solly	5b.1 A mix methods approach combining vulnerability- and lethality analysis (VLA) with war-gaming, in support of Swedish capability development concerning long-range weapons Andersson & Ågren
1045 – 1110	5a.2 Building confidence through rapid analysis Murgatroyd & Gould	5b.2 Operationalising recreational computer wargames: MOD's growing Capability Bell
1110 – 1135	5a.3 TBC McCormack & Rowlands	5b.3 AI for Grey Zone Wargaming Lucek
1135 – 1145	Presenters' Q&A Panel	Presenters' Q&A Panel

1145 – 1245 LUNCH

1245 – 1250	<p>Introduction to Presentation Session 6a <i>Learning from the past</i> Gould</p>	<p>Introduction to Presentation Session 6b <i>Concept & capability development</i> Croucher</p>
1250 – 1315	6a.1 From U-Boats to AI: The Unseen Force Behind 80 Years of United States Defense Strategy DeGrange	6b.1 Warship Land Strike Capability Exploration Charlton
1315 – 1340	6a.2 Capability Planning: Exploring the shifts of scientific paradigms among Operations Analysts Roxström	6b.2 How the Land Warfare Centre Operational Research Branch supports UK Field Army Woodhall
1340 – 1405	6a.3 Medium Heavy helicopter Mix Study Snowden	6b.3 Quick on the Draw: Tank Battlesight Shooting Salt
1405 – 1415	Presenters' Q&A Panel	Presenters' Q&A Panel

1415 – 1445 BREAK

Time	Item
1445 – 1600	Workshop Session C – repeat of a subset of those workshops from sessions A and B Option to attend one of five workshops running in parallel. (Delegate sign-up will take place during the morning break).
C1	Critical thinking: Understanding the relative criticality of infrastructure in Defence BUNN CATALYZE
C2	Strategic analytics PARLIER INDEPENDENT
C3	The problem of bad information ADAM ROKE
C4	Wargame design methods – making the intangible tangible BAGWELL DSTL
C5	How can analysts help Defence decision makers when the only seemingly sensible answer is “it depends”? A demonstration using exploratory modelling ROCKETT & WILLIAMS DSTL
1600 – 1605	BREAK for room moves
1605 – 1630	Award Ceremony Presentation of awards for prize-winning ISMOR papers.
1630	CLOSE