



AUSTRALIA CONVENTION

INNOVATING THROUGH UNCERTAINTY

18 - 20 SEPTEMBER 2024
QT HOTEL, CANBERRA, ACT

Wednesday 18 September 2024, Northrop Grummon

08:00am	Registration opens
09:00am	<p>AOC Welcome & Welcome to Country (10 minutes) Lauren Hassall, CEO, AOC Australia Chapter</p> <p>Opening Keynote (30 minutes including Q&A) CDRE Matthew Doornbos, DG NI&IW</p> <p>Program Brief (30 minutes including Q&A) Dr Anthony Schellhase, DSTG</p> <p>Program Brief (30 minutes including Q&A) GPCAPT Jason Powers, Cyber Forces Development EMSO, JCG</p> <p>Program Brief (30 minutes including Q&A) Edward Arbon – Research Leader for Spectrum Warfare, Information and Sciences Division, DSTG</p> <p>Expanding the Passive Radar Horizon (30 minutes including Q&A) Robert Young, Sensors and Effectors Division, DSTG</p> <p>Plenary Session (20 mins) Board Member to facilitate</p>
12:00pm	Lunch
13:00pm-16:00pm	<p>Program Brief (30 minutes including Q&A) Mr Jeremy Pickel, Deputy Director Future EW, Joint EW Directorate</p> <p>Program Brief (30 minutes including Q&A) Mr Tim Laurins, EMS Strategic Communications, Joint EW Directorate</p> <p>JEMSOC Brief (30 minutes including Q&A) MAJ Jason Perkins, JEMSOC, HQJOC</p> <p>Influence Capabilities and Research (30 minutes including Q&A) Lucy Post – DSTG Social Scientist – Influence Concepts and Capabilities</p> <p>EWIS-M Brief (30 minutes including Q&A) Adam Billards, SPO-D EWIS-M, CASG</p> <p>Plenary Session (30 mins) Board Member to facilitate</p>
18:00pm-1930pm	VIP Dinner, Location TBC



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Thursday 19 September 2024, QT Hotel

8:00am	Registration Opens
9:00am	<p>Opening Session Room: Ballroom 2&3</p> <p>AOC Welcome & Welcome to Country (5 mins) Katherine Head, President, AOC Australia Chapter</p> <p>Master of Ceremonies Welcome (5 mins) Vice Admiral (Ret) Tim Barrett</p> <p>Asia Pacific AOC Update (10 mins) JP Kim</p> <p>Platinum Sponsor Address (10 mins) Platinum Sponsor Presenter TBC</p> <p>Keynote Address (30 mins) Michael Shoebridge, Strategic Analysis Australia</p> <p>Australian EW Perspectives: Where are We Now – Post-NDS and IIP (30 mins) Allan Dundas</p>
10:30am	Morning Tea
11:00am	<p>Strategic Perspectives Room: Ballroom 2&3</p> <p>Panel Discussion (30 mins) Led by Tim Barrett in conversation with Paul Maddison, Michael Shoebridge, Allan Dundas, Defence TBC</p> <p>Keynote Address – Spectrum Management (30 mins) Kuba Kabacinski</p> <p>Spectrum Working Group Discussion: Current International Spectrum Agenda Items with an Impact on Defence (30 mins) Glenn Odium</p>
12:30pm	Lunch
1:30pm	<p>Australian Perspectives Room: Ballroom 2&3</p> <p>Joint Perspective (30 mins) RADM David Mann, Head Joint Capabilities</p> <p>Air Perspective (30 mins) AIRCDRE Adrian Maso, Commander Air Warfare Centre</p> <p>Maritime Perspective (30 mins) CDRE Matthew Doornbos, DG Navy Intelligence & Information Warfare</p>



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3:00pm	Afternoon Tea		
3:30pm	<p>Defence Perspective Room: Ballroom 2&3</p> <p>Keynote Address (30 mins) MAJGEN Warren Gould, Head Cyber Operations and Strategic J6</p>		
4:00pm – 5:30pm	<p>Spectrum Regulation Room: Ballroom 2&3 Chair: KH</p> <p>Dynamic Spectrum Management and Electromagnetic Operations – NATO Communications and Information Agency perspectives Paul Adams (20 mins) [remote]</p> <p>Defence Spectrum Office Mark Elsegood (20 mins)</p> <p>Panel Discussion: (Un)Certainty within the EMS - experts point of view on Regulations (50 mins) Led by Glenn Odum in conversation with Paul Adams (NATO) [remote] David Murray (Director International Radiocommunications, Dept of ITRDCA) Chris Worley (Chief Engineer & Spectrum Planning Branch Head, ACMA) Paul Burford (Director, Defence Spectrum Office) Alex Farrant (Technical Director, CloudRF) Simon Burling-Claridge (RF Spectrum Advisor, NZDF) [remote]</p>	<p>EW Enablers Room: Eureka Chair: Al/Glen/Ashley</p> <p>An EMBM Solution for Operational and Strategic EMS Planning and Supporting the Military Appreciation Process (30 mins) Matthew Best</p> <p>EW Environmental Generation (30 mins) Tim Fountain</p> <p>SPARTA – Advanced Test System for EW (30 mins) Nicole Perry</p>	<p>Workshops Room: Studio 2&3 Chair: Vern/David E .</p> <p>Workforce Development in C4ISREW (20 mins) Vernon Collins</p> <p>Fundamentals of Microwave Photonics for EW (45 mins) David Enchelmaier David Hendry</p>
7:00pm-10:00pm	Awards Gala – National Arboretum, Canberra		

Poster Presentations	<p>A Low-Cost, Reconfigurable EW Drone Payload Jason Clegg</p> <p>Automated Radar Jamming Detection using Machine Learning for Augmenting Legacy Radars Ethan Selway</p>
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Friday 20 September 2024, QT Hotel

7:30am	<p>Women in Electronic Warfare Networking Breakfast Chaired by Amanda Selway (GM – Joint Battlespace Systems, Raytheon), in-conversation with MAJGEN Ana Duncan and Kylah Limmer</p>		
09:00am	<p>Industry Collaborations Room: Ballroom 2&3</p> <p>Gold Sponsor Opening Address (10 mins) Andrew Mannix</p> <p>Strategic Industry Partnerships to Support Sovereign National Security Capabilities (30 mins) Allan Dundas, Anthony Allen, Kendy Hau</p>		
9:40am	<p>Cyber Room: Ballroom 2&3 Chari: Al/Glen</p> <p>Presentation TBC (30 mins) Katherine Daniell, ANU School of Cybernetics</p> <p>Building a Software-Defined EW and Cyber Enterprise (30 mins) Stuart Frizell</p>	<p>Information Operations Room: Eureka Chair: KH</p> <p>Influence Capabilities and Research (30 mins) Lucy Post, DST</p> <p>Enhancing Electronic Warfare with Advanced Data Fabric Integration (30 mins) Luke Musgrove</p>	<p>Workshop Room: Studio 2&3 Chair: Kasun</p> <p>EMBM in the Near-peer Competition and Conflict: A conversation beyond operational frequency assignment (60 mins) Dr Kasun Thotahewa</p>
10:40am	<p>Morning Tea</p>		
11:10am	<p>Cognitive EW and Artificial Intelligence Room: Ballroom 2&3 Chair: Ashley</p> <p>Cognitive Detection and Tracking for Modern Threats (30 mins) David Brown</p> <p>Artificial Intelligence and Machine Learning to Address Uncertainty in Modern Electronic Warfare at the Speed of Machines (30 mins) Dr George Elias Dr Marc Oliveri</p> <p>A Dynamic Threat Characterisation Strategy for Cognitive Radio-Frequency Electronic Warfare (20 mins) Dr Tomasz Jasinski</p>	<p>Space Room: Eureka Chair: Lauren</p> <p>Vulnerability of Space-based Electro-optical Sensors to Laser Weapons (20 mins) Dr Lachlan Harris</p> <p>New Space and Electronic Warfare (30 mins) Dr Craig Benson, Skykraft</p> <p>NAVWAR (30 mins) Sarah Sharp, Safran</p>	<p>Spectrum Operations and Battle Management Room: Studio 2&3 Chair: Glenn</p> <p>An Ontology for Integrated Electronic Warfare and Electromagnetic Spectrum Operations (20 mins) Dr Lucia Falzon</p> <p>A New Approach to Electromagnetic Spectrum Operations, Manoeuvre and Dominance – Distributed Autonomous Spectrum Operations (20 mins) Dr Don Gossink</p> <p>DEMO: Improving and scaling radio theory training with simulation APIs (30 mins) Alex Farrant</p>
12:30pm	<p>Lunch</p>		



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<p>1:30pm</p>	<p>Asymmetric Advantage in EW Room: Ballroom 2&3 Chair: KH</p> <p>Counter-small Drone Electronic Warfare at the Tactical Edge (30 mins) Wade Bennett</p> <p>Presentation TBC (30 mins) Dr Simon Ng</p> <p>Information W: Industry and Asymmetry (20 mins) Charlie Moore</p>	<p>Cyber Electromagnetic Activities (CEMA) Room: Eureka Chair: Shavi</p> <p>Dark Matter – Cyber and EW Activities Targeting SATCOM in the Russia-Ukraine Conflict (30 mins) Justin Parker</p> <p>Integrating EW into Security Architecture (30 mins) Alex Parkinson</p> <p>Lessons learned from CEMA exercises and experimentation using CMFF inspired Multi-mission System of Systems (30 mins) Anthony Hayter</p>	<p>Spectrum Management Chair: Glenn</p> <p>Spectrum monitoring & Geolocation advancement to meet the lessons and COTS adaptations from real world Eastern European ongoing challenges. (30 mins) Darren Nicholls</p> <p>Challenges of multi-lane signal processing on FPGA (20 mins) Julian Sorenson</p> <p>Testing for coexistence in crowded and contested RF environments (40 mins) Tim Fountain</p>
<p>3:00pm</p>	<p>Afternoon Tea</p>		
<p>3:30pm – 5:00pm</p>	<p>Convention Close Room: Ballroom 2&3</p> <p>Innovation Panel (60 mins) Led by Tim Barrett in discussion with Darron Kavanagh, Mission Leader, ASCA, DSTG GPCAPT Jason Lind (Jericho Disruptive Innovation, RAAF) Dr Simon Ng (TAS-D CRC) Ray Johnson (Senior Manager, Defence Industry Engagement QUT) Jake Bostock (Beaten Zone Venture Partners)</p> <p>ADSTAR Summary & Insights from an EW Perspective (30 mins) DST Speaker TBC</p>		