



## AUSTRALIA CONVENTION

INNOVATING THROUGH UNCERTAINTY

18 - 20 SEPTEMBER 2024  
QT HOTEL, CANBERRA, ACT

### Wednesday 18 September 2024, Fairburn Building 2 Theatre

08:00am	Registration opens
09:00am	<p>AOC Welcome &amp; Welcome to Country (10 minutes) <b>Katherine Head, President, AOC Australia Chapter</b></p> <p>Sponsors Welcome (20 minutes including Q&amp;A) <b>TBC</b></p> <p>Opening Keynote (30 minutes including Q&amp;A) <b>CDRE Matthew Doornbos, DG NI&amp;IW</b></p> <p>EW Program Brief (30 minutes including Q&amp;A) <b>Dr Anthony Schellhase, DSTG</b></p> <p>Presentation Title (30 minutes including Q&amp;A) <b>GPCAPT Jason Powers, Cyber Forces Development EMSO, JCG</b></p> <p>Presentation Title (30 minutes including Q&amp;A) <b>Edward Arbon – Research Leader for Spectrum Warfare, Information and Sciences Division, DSTG</b></p> <p>Expanding the Passive Radar Horizon (30 minutes including Q&amp;A) <b>Robert Young, Sensors and Effectors Division, DSTG</b></p>
12:00pm	Lunch
13:00pm-16:00pm	<p>Presentation Title (30 minutes including Q&amp;A) <b>Mr Jeremy Pickel, Deputy Director Future EW, Joint EW Directorate</b></p> <p>Presentation Title (30 minutes including Q&amp;A) <b>Mr Tim Laurins, EMS Strategic Communications, Joint EW Directorate</b></p> <p>JEMSOC Brief (30 minutes including Q&amp;A) <b>MAJ Jason Perkins, JEMSOC, HQJOC</b></p> <p>Presentation Title (30 minutes including Q&amp;A) <b>Lucy Post – DSTG Social Scientist – Influence Concepts and Capabilities</b></p> <p>Presentation Title (30 minutes including Q&amp;A) <b>Adam Billards, SPO-D EWIS-M, CASG</b></p> <p>Presenter (30 minutes including Q&amp;A) <b>Presenter TBC</b></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><b>Opening Session</b> Room: Ballroom 2&amp;3</p> <p>AOC Welcome &amp; Welcome to Country (5 mins) <b>Katherine Head, President, AOC Australia Chapter</b></p> <p>Master of Ceremonies Welcome (5 mins) <b>Vice Admiral (Ret) Tim Barrett</b></p> <p>AOC Region II Director Welcome (10 mins) <b>Dr J.P. Kim</b></p> <p>Platinum Sponsor Address (10 mins) <b>Platinum Sponsor Presenter TBC</b></p> <p>Keynote Address (30 mins) <b>Michael Shoebridge, Strategic Analysis Australia</b></p> <p>Keynote – Strategic Issues in Defence IW (30 mins) <b>Jennifer Parker, NSC College ANU</b></p>
10:30pm	Morning Tea
11:00am	<p><b>Strategic Perspectives</b> Room: Ballroom 2&amp;3</p> <p>Panel Discussion (30 mins) <b>Led by Tim Barrett in conversation with Michael Shoebridge, Jennifer Parker, Allan Dundas</b></p> <p>Australian EW Perspectives: Where are We Now – Post-NDS and IIP (30 mins) <b>Allan Dundas</b></p> <p>Keynote Address – Spectrum Management (30 mins) <b>Kuba Kabacinski</b></p>
12:30pm	Lunch
1:30pm	<p><b>Australian Perspectives</b> Room: Ballroom 2&amp;3</p> <p>Joint Perspective (30 mins) <b>RADM David Mann, Head Joint Capabilities</b></p> <p>Air Perspective (30 mins) <b>AIRCDRE Adrian Maso, Commander Air Warfare Centre</b></p> <p>Maritime Perspective (30 mins)</p>



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	<b>CDRE Matthew Doornbos, DG Navy Intelligence &amp; Information Warfare</b>		
3:00pm	Afternoon Tea	Annual General Meeting (Studio 2 & 3) (including Afternoon Tea)	
3:30pm	<b>Defence Perspective</b> Room: Ballroom 2&3  Keynote Address (30 mins) <b>MAJGEN Warren Gould, Head Cyber Operations and Strategic J6</b>		
4:00pm – 5:30pm	<b>Spectrum Regulation</b> Room: Ballroom 2&3  Presentation <b>Paul Adams</b> (20 mins) <a href="#">[remote]</a>  Defence Spectrum Office <b>Mark Elsegood</b> (20 mins)  Panel Discussion: (Un)Certainty within the EMS - experts point of view on Regulations (50 mins) <b>Led by Glenn Odum in conversation with Paul Adams (XG Consulting, UK) [remote]</b> <b>David Murray (Director International Radiocommunications, Dept of ITRDCA)</b> <b>Chris Worley (Chief Engineer &amp; Spectrum Planning Branch Head, ACMA)</b> <b>Paul Burford (Director, Defence Spectrum Office)</b> <b>Alex Farrant (Technical Director, CloudRF)</b> <b>Simon Burling-Claridge (RF Spectrum Advisor, NZDF) [remote]</b>	<b>EW Enablers</b> Room: Eureka  An EMBM Solution for Operational and Strategic EMS Planning and Supporting the Military Appreciation Process (30 mins) <b>Matthew Best</b>  EW Environmental Generation (30 mins) <b>Tim Fountain</b>  SPARTA – Advanced Test System for EW (30 mins) <b>Nicole Perry</b>	<b>Workshops</b> Room: Studio 2&3  Workforce Development in C4ISREW (20 mins) <b>Vernon Collins</b>  Fundamentals of Microwave Photonics for EW (45 mins) <b>David Enchelmaier</b> <b>David Hendry</b>
7:00pm-10:00pm	Awards Gala – National Arboretum, Canberra		

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

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



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12:30pm	<p>Spectrum Working Group Discussion: Current International Spectrum Agenda Items with an Impact on Defence (30 mins) <b>Glenn Odlum</b></p>	Lunch	
1:30pm	<p><b>Asymmetric Advantage in EW</b> Room: Ballroom 2&amp;3</p> <p>Counter-small Drone Electronic Warfare at the Tactical Edge (30 mins) <b>Wade Bennett</b></p> <p>Presentation TBC (30 mins) <b>Dr Simon Ng</b></p> <p>Information W: Industry and Asymmetry (20 mins) <b>Charlie Moore</b></p>	<p><b>Cyber Electromagnetic Activities (CEMA)</b> Room: Eureka</p> <p>Dark Matter – Cyber and EW Activities Targeting SATCOM in the Russia-Ukraine Conflict (30 mins) <b>Justin Parker</b></p> <p>Integrating EW into Security Architecture (30 mins) <b>Alex Parkinson</b></p> <p>Lessons learned from CEMA exercises and experimentation using CMFF inspired Multi-mission System of Systems (30 mins) <b>Anthony Hayter</b></p>	<p><b>Spectrum Management</b></p> <p>Spectrum monitoring &amp; Geolocation advancement to meet the lessons and COTS adaptations from real world Eastern European ongoing challenges. (30 mins) <b>Darren Nicholls</b></p> <p>Challenges of multi-lane signal processing on FPGA (20 mins) <b>Julian Sorenson</b></p> <p>Testing for coexistence in crowded and contested RF environments (40 mins) <b>Tim Fountain</b></p>
3:00pm	Afternoon Tea		
3:30pm – 5:00pm	<p><b>Convention Close</b> Room: Ballroom 2&amp;3</p> <p>Innovation Panel (60 mins) <b>Led by Tim Barrett in discussion with Presenter TBC, ASCA, DSTG</b> <b>GPCAPT Jason Lind (Jericho Disruptive Innovation, RAAF)</b> <b>Dr Simon Ng (TAS-D CRC)</b> <b>Ray Johnson (Senior Manager, Defence Industry Engagement QUT)</b> <b>Jake Bostock (Beaten Zone Venture Partners)</b></p> <p>ADSTAR Summary &amp; Insights from an EW Perspective (30 mins) <b>DST Speaker TBC</b></p>		