



THE SIR RICHARD WILLIAMS FOUNDATION

A New Approach, and Attitude, to Electronic Warfare in Australia

An Electronic Warfare Seminar

Principal Sponsor Raytheon

23 August 2017

National Gallery of Australia

Background

An increasingly sophisticated and rapidly evolving threat with ready access to advanced, commercially available off-the-shelf technology is transforming the operational context in which the Australia Defence Force must now survive and fight. The next generation battlespace will be contested across multiple domains with control of the Electromagnetic Spectrum becoming just as important as control of the Air if the Joint Force is to operate with the freedom of manoeuvre necessary to ensure campaign success.

E/A-18 Growler Opportunity

Traditionally, Electronic Warfare has been the preserve of a specialist cadre of domain experts with an emphasis in recent years upon platform self-protection; however, that is all changing. The EA-18G Growler is the catalyst for a transformational change in our approach to Electronic Warfare and an opportunity to rethink our attitude to the Electromagnetic Spectrum as a warfighting domain in its own right. We will always need Electronic Warfare specialists, but we will increasingly need a much broader pool of Electronic Warfare generalists able to operate across the Joint Force if we are to maximise the capability of our new weapon systems.

Aim of the Seminar

This Seminar seeks to build a common understanding of how the EA-18G Growler, in particular, will impact the Australian Defence Force at the strategic, operational and tactical levels, and how Airborne Electronic Attack is likely to shape future Australian Defence and Security policy.

It will provide a historical perspective on the development of the Royal Australian Air Force's Electronic Warfare capability dating back to World War 2, and describe how today's Air Force personnel are raising, training and sustaining the Growler Force in partnership with the United States Navy.

We will hear the perspectives of the Australian Army, Navy, and the Joint Commanders, as well as contributions from our senior coalition partners in the United States and the United Kingdom. The emphasis will be on gaining a better understanding of the key enablers and technologies, such as

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C4I, Electronic Warfare Battle Management, and training systems, which turn the manned and unmanned platforms into Joint Capability delivering sophisticated battlespace effects.

The Seminar will also serve as an opportunity to provide an industry perspective on Electronic Warfare and, in particular, the role they can play as a Fundamental Input to Capability. It will highlight the importance of disruptive technologies, speed to market, and the increasing emphasis on non-kinetic effects to gain operational advantage. Industry participants are invited to address topics including Electronic Warfare Battle Management, training, and the emerging technologies associated with networked, force level effects.

Above all, the seminar will emphasise the need for a new attitude to Electronic Warfare and, in particular, a need to embrace the arrival of the EA-18G Growler as a catalyst for change. In doing so, it provides an opportunity to make Electronic Warfare more accessible and understandable to the Joint Force, and develop the Information Age Warfighters necessary to deliver campaign success on future operations.

Sponsors

The Sir Richard Williams Foundation would like to thank the sponsors of this seminar.

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Program

Time	Topic	Name	Organisation
0800-0830	Registration		
0830-0835	Welcoming Remarks	AIRMSHL (Retd) Geoff Brown AO	Sir Richard Williams Foundation
0835-0900	A Historical Perspective of RAAF Airborne Electronic Attack	GPCAPT Doc Millar	Air Power Development Centre
0900-0925	Electronic Warfare – a UK Perspective	AIRMSHL Stuart Atha CB DSO MABSC RAF	DCOM Ops Royal Air Force
0925-0950	The Growing Importance of Electronic Warfare in the Pacific Theatre	To be Confirmed United States Navy	US Pacific Fleet
0950-1030	The Future of Electronic Warfare	JD McCreary Chief Disruptive Technology Programs	Georgia Tech Research Institute
1030-1050	Break–Morning Tea		
1050-1115	The USN Approach to Electronic Attack	CDR Mike Paul	Electronic Attack Wing, US Pacific Fleet
1115-1140	An Operators View of Growler	GPCAPT Glen Braz CSC, DSM	Officer Commanding 82 WG Royal Australian Air Force
1140-1155	Industry as an Input to Electronic Warfare Capability	Dr Brad Ferguson	Raytheon
1155-1120	EW, C4I and Enablers	AIRCDRE Robert Chipman CSC	Director Capabilty Planning Royal Australian Air Force
1120-1135	Enabling Capability for EA	TBA	Boeing
1135-1200	Growler and Force Level Electronic Warfare	BRIG Stephen Beaumont AM	Director General Information Warfare, VCDF Group
1200-1230	Panel Session	APDC, GTRI, OC82WG, DGIW, US PAC FLEET, DGCP-AF	
1230-1315	Break–Lunch		
1315-1340	Distributed Electronic Warfare	LTGEN (Retd) Jon Davies	United States Marine Corp
1340-1355	Industry Perspective on Electronic Warfare	TBA	Northrop Grumman
1355-1415	Implications for the Royal Australian Navy	TBA Chief of Navy representative	Royal Australian Navy
1415-1440	Implications for the Australian Army	MAJGEN Kathryn Toohey AM, CSC	Head of Land Capability Australian Army
1440-1500	Panel Session	Royal Australian Navy , MAJGEN Kath Toohey AIRMSHL Stuart Atha LTGEN Jon Davies, TBC PACFLEET	
1500-1510	Formal Close	AIRMSHL (Rtd) Geoff Brown AO	Sir Richard Williams Foundation

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