



## **UNITED KINGDOM CHAPTER**

### **Advancing Electromagnetic Warfare Together**

#### **DSEI 2019 AOC UK Chapter Seminar: Hybrid Warfare / CEMA / Electronic Warfare**

**Date/Time and Location:** The UK Chapter of the AOC has been invited by Clarion Events to run a seminar in the prestigious Joint Zone Theatre at DSEI, London on Thursday 12 September 2019.

**Title:** *Hybrid Warfare, Cyber Electromagnetic Activities and Electronic Warfare – where we are and where we need to go.*

**Theme:** As all war-fighters and their leaders know, warfare in the 21<sup>st</sup> Century without effective Electronic Warfare and Cyber Electromagnetic Activities across all operational environments / domains is both unthinkable and unwinnable. Success depends at the very least on control of the Cyber and EM environment/domain at the moment of action and ideally longer term.

Overall domination is extremely unlikely, especially given the level of investment by the free-world, but we have a technological edge, if we can hone it, and prepare it for operational use. In the immediate future, achieving local superiority is a huge priority, and will require much skill, training, discipline and resources, all over the long term.

Manoeuvre in the EM environment/domain includes offensive, defensive, scoping, surveillance, management, etc. operations, all across all the defence lines of development, which in the UK are Training, Equipment, Personnel, Information, Doctrine (and concepts & policy),

Organisation, Infrastructure and Logistics; all underpinned by interoperability. It includes all of military and information capabilities in all warfighting environments/domains.

**Chairman:** Air Marshal Philip Sturley CB MBE BSc FRAeS CCMI, RAF (Retd) UK

**Speakers:**

<b>Opening remarks Seminar Director &amp; Chairman</b>	
<b>Opening Address - Major General Borys Kremenetskyi</b> , Major General, UKR-Air Force, Defence and AirAttaché, Embassy of Ukraine to the UK, Ukraine	<i>Hybrid Warfare in Europe in the 21<sup>st</sup> Century</i>
<b>Colonel Alan Blackman</b> (British Army Retd), Director, ABAL Insight Ltd, UK	<i>The Future of EW and CEMA?</i>
<b>Commander von Spreckelsen</b> , Chief Policy Section NATO Joint EW Core Staff, Germany	<i>Electronic Warfare – The Forgotten Discipline</i>
<b>Closing Address - Professor David Stupples</b> , Professor of Electronic and Radio Systems, Director EW Research, City, University of London, AOC At-Large Director, and UK Chapter Director, UK	<i>The NATO Need to Re-focus on EW to Jump Ahead of the Curve</i>
<b>Q&amp;A - Appreciation - Farewell</b>	

The agenda is subject to Change for Operational Reasons.

**Seminar Director:** Wing Commander John Clifford OBE RAF (Retd), President UK Chapter AOC, UK

**Seminar Organiser:** Connor Lane, Conference Producer, Clarion Events, UK