



5 June 2019

## **AOC EW Stockholm - DSEI 2019 Volunteers – AOC Elections - STEM**

**AOC Elections** for the next President, At-Large Directors and International Region 1 Director (that's Europe and a couple of other places) began on 1<sup>st</sup> June (Deadline to vote: June 30, 2019 11:59 pm eastern time). You should have received an email from Glorianne at AOC HQ and one from the company running the elections. Sue Robertson is the only candidate for IR1 Director. She has done a superb job, so please vote to show your support. I'm personally keen to increase the number of non-US directors (to more accurately represent the demographics of the AOC). We are not allowed to endorse candidates, but please do vote – generally only around 10% of members actually vote, so your vote counts!

**AOC EW Stockholm** was a great success and the largest EW Europe ever; in fact it was possibly the largest ever EW event, certainly in recent times. Many superb presentations; 1200 EW delegates and visitors from over 45 nations, plus all the exhibitors, attended AOC Stockholm from across the military, government, industry and academia including senior officers. All attendees were vetted by Clarion security staff to ensure compliance with US State Department and other regulations. The on-site survey indicated a 100% level of satisfaction with the conference and exhibition. In fact all of those who responded thought the event was satisfactory, with 83% stating that it was good across the board, while an extraordinary 25% stated that all aspects were excellent. Seventy five exhibitors participated and 60% of them booked an equivalent or bigger stand for the event for Liverpool in 2020. There were a lot of useful and excellent testimonials from conference delegates and exhibitors. The total number of visitors attending AOC EW Stockholm was 2830; thanks in part to the collocated Clarion UDT and ITEC events; an astonishing 1400 visitors from the 2 events visited the EW exhibition, clearly demonstrating that the EM Environment /Domain is central to a lot of military capabilities and warfighting manoeuvre spaces. There were lots of expert journalists present and some great articles ensued. For example, Reuben F Johnson wrote "Analysis: Experts predict near-future geometric expansion of EW" in the May Jane's Defence Weekly, and "A New Era of EW" In Military Periscope. Please contact me if you would like further details.

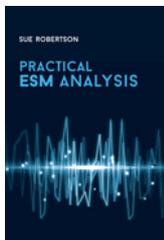
**AOC Awards** The UK Chapter nominated 2 individuals for recognition by the AOC; one of them, for the Technology Hall of Fame, is the late Alan Turing OBE, the father of modern digital computing and famous for his wartime work at Bletchley Park. I will let you know how we got on in a future newsletter when the results are announced.

**AOC 56<sup>th</sup> Annual Symposium – STEM - Sponsors Needed** The AOC, the UK Chapter and many of you, I know, recognize the importance of educating students in Science, Technology, Engineering, and Mathematics (STEM) using an interdisciplinary and applied approach. Once again, the AOC will host a STEM Program this time in conjunction with the 56th Annual AOC International Symposium and Convention. The STEM events over recent years have been hugely successful with 1000 youngsters attending the one last November in DC. HOWEVER, they are very expensive to run. The AOC is seeking financial support to sponsor them. Besides getting your own name or your Companies name in lights and on display at the 56<sup>th</sup>, sponsorship truly helps students get into STEM and perhaps encourages them to enter the related fields. UK Chapter members are most welcome to make any individual contribution and it will be recognised and help the cause and the Chapter. Contact details for individuals and companies are on page 4.

**DSEI 2019** DSEI 2019 is scheduled for 10-13 September at EXCEL in London Dockland. **The Chapter have once again been offered a stand in the prestigious Joint Arena and are seeking volunteers to run the stand, brief about the AOC, EW and EM operations – and critically to recruit new members.** UK Chapter volunteers will receive complimentary registration to DSEI. After the success of the inaugural 2017 Seminar, we have been invited to run another one; this time on Wednesday 11 September 2019, 15:00 – 17:00, in the Joint Theatre. More details will follow but the title is *Electronic Warfare and Cyber Electromagnetic Activities – where are we now and where are we going*. Confirmed speakers include Major General Borys Kremenetskyi, Defence and Air Attaché, Embassy of Ukraine to the UK, Ukraine; Professor David Stupples, Professor of Electronic and Radio Systems, Director EW Research, City, University of London, AOC At-Large Director, UK; Colonel Alan Blackwell (British Army Retd), Director, ABAL Insight Ltd, UK and Commander von Spreckelsen, Chief Policy Section NATO Joint EW Core Staff, Germany – Navy. Air Marshal Philip Sturley will once again chair the seminar. (All subject to change for operational reasons.) Email [jonclif@aol.com](mailto:jonclif@aol.com) to volunteer, please.

**Potential Visit to French Chapter** The French AOC chapter has offered to host a visit from UK chapter members at a joint meeting to be held at the Ecole Militaire in Paris. Although a date for the meeting has not been set, if you are interested in this visit, please let Chapter visits director Sue Robertson know by email ([sue@gpl.co.uk](mailto:sue@gpl.co.uk)). The chapter will apply to AOC HQ for some funds to subsidise travel costs.

**New Book** Dr Sue Robertson, UK Chapter director and AOC International Region 1 Director has written a new book titled “*Practical ESM Analysis*”. As some of you may know, Sue is a prominent global expert in the field.



The book is around 400 pages long and will clearly be a definitive guide for many years to come and of great value. It was released on May 1st and is currently available at an excellent discount release price.

More information: <https://uk.artechhouse.com/Practical-ESM-Analysis-P1984.aspx> (The link works and is safe - John Clifford)

**DEHS Conference on Security & Intelligence – 27 November 2019** The Science Museum will be opening a new exhibition ‘Top Secret: from Ciphers to Cybersecurity’ from 10 July 2019 to 23 February 2020; the exhibition is curated by Dr Elizabeth Bruton, Curator of Technology and Engineering at the Science Museum and a DEHS Committee Member. The exhibition marks the 100<sup>th</sup> anniversary of the formation of GCHQ, starting with the Government Code & Cypher School in 1919. To coincide with this exhibition, DEHS is organising a conference with the title ‘Security & Intelligence’ on 27 November 2019, which will include a guided tour through the exhibition by Dr Bruton. The Science Museum has kindly allowed the DEHS to hold the conference in the Dana Centre, located in Queens Gate and very close to the museum. The cost will be £25 including refreshments. AOC members who are interested in attending should contact Keith Thrower, DEHS President, at [kthrower@waitrose.com](mailto:kthrower@waitrose.com), as soon as possible. Numbers are limited to 80 attendees.

**Symposia at Shrivenham Call for Papers (C4P)** More information is available here: <https://www.cranfield.ac.uk/events/symposia/ewtc>

**Finally** That's all folks. I've listed a few dates below, when you might consider joining us and the wider AOC community in 2019. Please send ideas about recognising suitable individuals or organisations for AOC and/or UK Chapter awards. We are particularly keen to encourage apprentices in industry, academics and serving personnel learning new EW-related skills.



John Clifford OBE  
UK Chapter President

### **SOME DATES FOR YOUR 2019 DIARY**

**Symposia at Shrivenham EW/EM Technology Conference 17 – 20 June 2019**

**DSEI EXCEL London 10-13 September 2019**

**DSEI UK Chapter EW/CEMA Seminar Joint Zone Theatre 15:00 – 17:00 Wednesday 12 Sept 2019**

**Visit to 30 Cdo Y Sqn Stonehouse Barracks Plymouth Date TBD 2019**

**DEHS Conference on Security & Intelligence – 27 November 2019**

**UK Chapter Christmas Awards Dinner RAF Club London 13 Dec 2019**

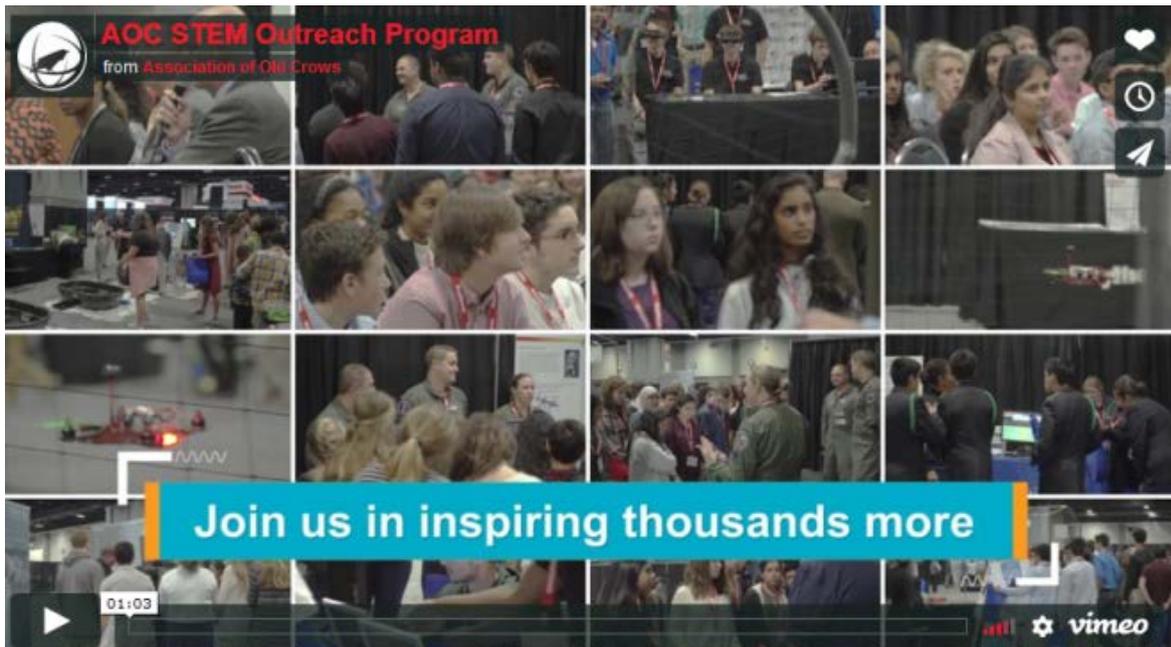
**Check out our website at [www.ukaoc.org](http://www.ukaoc.org)**

**You can also check out career opportunities there too, by clicking on the**

**Home Page “EW Job Vacancies” button**

**Thales has become the latest Company to advertise on the UK Chapter website – they are looking for an ECM Design Authority / Technical Expert – for more information check out the website at [www.ukaoc.org](http://www.ukaoc.org).**

**Cyber and Information Systems at [dstl] are now participating in advertising on the UK Chapter website with an excellent site with great graphics, lots of thought-provoking material and there's even a CIS challenge. Check out the link to dstl on the UK Chapter Homepage.**



**AOC 56<sup>th</sup> Annual Symposium – STEM - Sponsors Needed** The AOC recognizes the importance of educating students in Science, Technology, Engineering, and Mathematics (STEM) using an interdisciplinary and applied approach. The AOC will host a STEM Program in conjunction with the 56th Annual AOC International Symposium and Convention. This program will focus on students interested in potential STEM careers and will feature engaging and informative presentations by an exclusive group of professionals who aim to empower and inspire students about careers in science, technology, engineering and mathematics. Students will learn about the basic concepts Radio Frequency (RF) Spectrum (e.g. waveforms, amplitude, frequency, transmitters, receivers, antennas and more), the physics of radio and RADAR transmissions, and the concepts behind Cyber vulnerabilities and Cyber security through a series of interactive booths featuring technologies, equipment and platforms utilized today and planned for the future. Plans for our STEM program include hands-on interactive robot and unmanned air vehicle displays and aircraft simulators. The STEM display area will be located adjacent to the main exhibit hall. For more information, please contact [Blain Bekele \(blaine@crows.org\)](mailto:blaine@crows.org).

<https://www.crows.org/mpage/2019STEM>

<https://www.crows.org/page/STEMSponsorship>