

5 May 2019

AOC EW Stockholm - DSEI 2019 Volunteers – New Book

AOC EW Stockholm is scheduled for 13-15 May, around a week away. There is a great line-up with 46 world class speakers and a prior Plath Intelligence Workshop with 10-12 speakers and panel session; over a 1000 delegates from 45 countries and 75 top industry exhibitors will be at the AOC event. UK Chapter volunteers will staff the AOC stand in the exhibition hall, co-located with the conference in Stockholm's Stockholmsmässan convention centre. If you are at the event be sure to come to the stand and say hello. You can even enter the prize draw by dropping your business card off.

AOC Awards UK BOD comment 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

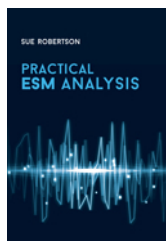
On a related theme UK signals intelligence agency GCHQ, celebrating its centenary, has released emulators for famed World War II-era cipher machines that can be run within its web-based educational encryption app CyberChef - thanks to Ian Fish for spotting this. "We've brought technology from our past into the present by creating emulators for Enigma, Typex and the Bombe in #CyberChef," GCHQ said Thursday via Twitter. "We even tested them against the real thing! Try them out for yourself!" Here is a link to the article in an IT newsletter: https://www.theregister.co.uk/2019/03/18/gchq_enigma_emulator/ - the link works and is safe although there is advertising on the site. GCHQ isn't the first to develop an emulator – you can find them on the web or as desktop or mobile apps. But the agency does have a certain degree of credibility for this sort of thing ☺ If you, your friends, family or children access any of this GCHQ site be sure to let us know for a future newsletter.

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 prestigious 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 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). 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 (most of Europe plus a few extras!) 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)

This year's DEHS Burns Lecture Day was held on 2 May at STEAM, Museum of the Great Western Railway. By all accounts from AOC members it was a great success with several attending. The opening talk by Dr Phil Judkins addressed *D-Day Deceptions – Confusion's Masterpiece*. An excellent overview of the many and varied deceptions before and during the Allied landings on Normandy, together with the effects on the enemy and his dispositions of forces. The second talk was by Peter Butcher on the very technical and chemical aspects of *Batteries*, based mainly on military applications with the amazing oversights in specifications regarding operational requirements; together with the advantages and disadvantages of different chemical ingredients. The final talk was the annual Burns Lecture by Dr Jonathon Aylen, entitled *From Cold War to Coal Trains*. This was a fascinating talk about the evolution of Command and Control within what is now British Rail for the entire rolling stock – engines, carriages, trucks, payloads, etc – based substantially on the military SAGE programme for (US) air defence. This was initially introduced in the 1950s and became known as the Train Operations System (TOPS). Just one of the ingredients was the requirement for every truck to have a unique reference number, in order that every assembly of freight trains could be identified as to payload content and destination in any goods yard across the whole UK. It remains substantially in use today.

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 100th 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, as soon as possible. Numbers are limited to 80 attendees.

Symposia at Shrivenham Call for Papers (C4P) the C4P for “The EW (Electromagnetic) Technology Conference scheduled 17-20 June is open. 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, where you might consider joining us and the wider AOC community in 2019. Following a proposal from our new Board member,

Jonathan “Swaz” Bramley, we are establishing an award for the top student in the advanced phase of the RAF SNCO Weapon Systems Operator / ISR course. There will be more information in the next newsletter. 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

AOC EW Europe 2019 Stockholm, Stockholmsmässan, 13-15 May 2019

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

Check out our website at 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.

Cyber and Information Systems at [dstl] are now participating in advertising and much more 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.