

29 January 2016

Exciting Start to 2016

New Year Honours 2016 Lifetime Honorary member of the UK Chapter, and the first non-US AOC Gold Medal Winner, ACM Sir Stu Peach KCB CBE ADC, was recognised in the New Year Honours with promotion to Knight Grand Cross of the Order of the British Empire (GBE). **CDS** On 22 January, it was announced that Her Majesty the Queen has approved the appointment of Air Chief Marshal Sir Stuart Peach GBE KCB ADC DL to take over from General Sir Nicholas Houghton GCB CBE ADC as the next Chief of the Defence Staff this summer. You can find more here: <https://www.gov.uk/government/news/air-chief-marshal-sir-stuart-peach-appointed-new-chief-of-the-defence-staff>. Many congratulations to Sir Stu on these two exciting and truly deserved achievements.

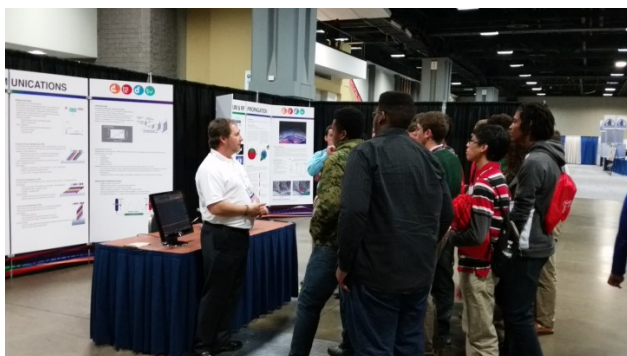
Elections I - UK Chapter Elections The closing date for nominating Board members for all the executive positions on the UK Chapter BOD was 30 December 2015. The Elections Chairman, Paddy Forrest, has confirmed that no nominations were received. The current executive committee members have confirmed their willingness to serve for another 3 year term and their nominations will be put to a vote at the AGM on 16 March at the RAF Club.

Elections II – AOC International Region 1 Director As Dr Bob Andrews MBE has served the maximum 2 terms under AOC regulations as International Region 1 Director on the AOC Board the AOC is seeking someone to replace him. Travel funds are available for elected Board members to attend US BOD approved meetings and other business is conducted through tele-conferences. The closing date for nominations is 1 March 2016. The UK Board is pleased to announce that Dr Sue Robertson, the UK Conference and Visits Director, and chair at recent AOC Europe technical sessions, has indicated her willingness to stand for the post. Sue has an outstanding CV and record both in EW and on the UK Board and is internationally known and respected. The UK Board intend to nominate Sue for the International Region 1 Director post. We hope that members will vote in the forthcoming AOC elections in July 2016.

Cyber Quest Thanks to those of you who contacted me regarding the item in the December Newsletter on the offer to participate in Cyber Quest 2017 from the USA Cyber Battle Lab. I passed on all the contacts and hope that you develop fruitful relationships and look forward to hearing about the results in due course.

AOC Inaugural STEM Program Besides moving to a new glitzy venue at the DC Convention Center, the 2015 AOC Annual Symposium witnessed another innovation – the inaugural AOC STEM Outreach Programme arranged by At Large Director “Muddy” Watters with huge energy and great attention to detail – finally an American mentioning the EM Environment: the Symposium Show Daily includes a short interview with him, which showcases the STEM Outreach event: <https://www.crows.org/2015-show-daily-day-3.html>. Over 3 days some 650 students from Washington and neighbouring states attended and took part. The program was outstanding with manned stands explained EM and EW fundamentals and there were many equipment displays including C-RCIED kit and a working F35 cockpit simulator. The AOC intends to make the artwork of the displays available for local use – I will keep you posted. If STEM and EW interest you, please let the UK BOD know and we will work together to make it happen.

STEM Interactive Stations



UK Chapter volunteer Samy Seal lectures at the STEM outreach program.

Stations	What You Will Learn About:
Spectrum	Spectrum, Radio Frequency (RF) Propagation, RF wave, Amplitude, Frequency
Communications	Antennas, Transmitters, Receivers, Line of Sight (LOS), Range, obstructions
RADAR	Intro to RADAR principles
EW	Jamming principles, Electronic Support (ES), Electronic Attack (EA), range power, modulations, demo
Cyber	Intro to Cyber – definition, IT vulnerabilities, Cyber EA
IED	IEDs, how RF is utilized for IEDs, Boston Marathon
CREW	Counter Radio Electronic Warfare (CREW), How CREW works, compatibility
Robots	Robots and RF control
UAS	Unmanned Aircraft Systems (UAS), UAS purposes, RF control, sensors
M&S and Mission Planning	Mission planning tools (SPEED, CJSMP... demo

New Articles As a reminder these articles are only available as attachments to UK Chapter Newsletters – they are not posted on our website. Any views contained in them are the author’s alone. Jacey Wise MBE has once again done us proud with another short article, this time on International Air Traffic monitoring and with commentary on Syrian and Armenian developments.

Book Review Opportunity Artech House have once again offered a qualified chapter member an opportunity to review and keep a new publication "Data Fusion Support to Activity-Based Intelligence" by Richard T. Antony. This is their advertisement: "This new resource provides a coherent, intuitive, and theoretical foundation for the fusion and exploitation of traditional sensor data as well as text-based information. In addition to presenting a detailed discussion of base-level data fusion requirements, a variety of higher level exploitation algorithms are presented that perform fully automated relationship discovery, rank interest level of entities, and support context-sensitive behavior understanding (both static and dynamic context). This book identifies eight canonical fusion forms as well as twenty foundational fusion services to enable formal mapping between models and services. Normalization and representation processes for (hard) sensor data and (soft) semantic data are described as well as methods for combining hard and soft data. Included is a prototype fusion system developed to implement virtually all the presented applications in order to demonstrate the robustness and utility of the design principles presented in this resource. The prototype system presented supports a variety of user workflows and all the applications are fully integrated. There is extensive fusion system output for unclassified scenarios to permit the reader to fully understand all presented design principles. This book also presents context-sensitive fuzzy semantic spatial and temporal reasoning." If you are an expert in this area and are prepared to write a review in the next month or so, please contact me and I will connect the first person to contact me to Artech UK.

Chapter History Evening 2016 This now annual UK Chapter event has been a great success and promises as much if not more in 2016. Personally, I think that history, and the history of EW and SIGINT in particular, is hugely important. Through its study we can investigate the past, better understand the present and maybe prepare for the future. Past meetings have been attend by Imperial War Museum staff, and acclaimed by them, and this year we are looking at 2 or more presentations on a post-WW2 subjects including one on '**MIRRORS**' that would take a first look at whether the German 'Klatt' network of Abwehr intercept and HUMINT assets ever existed, and the conflicting loyalties of one UK assessor helping decide its existence, value and use against Soviet Russia - a certain 'Kim' Philby, by Dr Phil Judkins, Chairman Defence Electronics History Society (<http://www.dehs.org.uk/>) along with more, including one by our Treasurer and acclaimed history author John Stubbington. If you would like to contribute – don't be shy, whatever your background, come and learn, and perhaps explain why history is important to you too.

Air Defence Radar Museum Visit Our excellent membership executive director Ian Fish is planning a visit to the UK's Air Defence Radar Museum, a move that has been warmly and enthusiastically welcomed by the Chairman of the ADRM's Board of Trustee's, Air Chief Marshal Sir John Allison, who many of you will no doubt remember. We are also looking at another coincidental and simultaneous visit to a history site in Norfolk. The museum, which is located on the site of the world's longest continuously operating radar site, provides a unique window into the history of radar and is a great day out in Norfolk, for all the family. The museum is located at Neatishead, close to Horning and the Broads. They have a great website, which is well worth a visit: <http://www.radarmuseum.co.uk/>. More will follow in the next couple of months.

Finally That's all folks. I've listed a few dates below, where you might consider joining us and the wider AOC community in 2016. Remember, the UK Chapter is all about you, so please stay engaged and let the Board know what you want. Feedback is always welcome; otherwise we operate in a vacuum. We need more diverse and young members to become actively involved in what the Chapter does – any ideas are welcome.



John Clifford OBE
UK Chapter President

SOME DATES FOR YOUR 2016 DIARY

UK Chapter AGM 18:30 Wednesday 16 Mar 2016, RAF Club, London

Visit to RN Type 45 Destroyer, Portsmouth TBD 2016

AOC EW Europe 2016 10-12 May 2016, Ahoy Conference Centre, Rotterdam, Netherlands. Registration open; Call for Papers and updated information available at www.eweuropa.com or <http://www.crows.org/event/192-aoc-conferences/2016/05/10/50-electronic-warfare-europe-2016.html>

UK Chapter History Evening 2016 18:00 26 May RAF Club, London

Visit to Air Defence Radar Museum, Neatishead, Norfolk Date TBD 2016.

Check out our website at www.ukaoc.org

You can also check out **career opportunities** there too, by clicking on the "News" tab and "EW Job Vacancies" tab.