

19 December 2018



The President and Board of Directors of the UK Chapter extend their Season's Greetings to our members and their families and wish all of you a Happy, Healthy and Prosperous 2019.

Review 2018 has been another excellent year for the UK Chapter. We were recognized again as the AOC Large Chapter of the Year, making it an unprecedented 7-in-a-row. Success as a Chapter depends on an energetic Board and on members who support the Chapter. So thanks are due to the hard working Board and to all the enthusiastic members who provide support. This year we have also seen an increase in membership to over 500 which bodes well for the future – please help encourage more members whenever you can. Particularly encouraging is the fact that more young members are joining us, taking up the complimentary 3-year full membership offer for young adults under 26. I know that some companies, such as Leonardo, are widely advertising the scheme to their staff and apprentices. Please encourage your teams to do the same. And I personally ask you to become more involved with the Chapter, do what you can to spread the word about EW and related Electromagnetic operations and capability, and specifically to encourage new members, specially focusing on the young. A long-term UK Chapter initiative has been to provide a 1-year complimentary membership to any serving military personnel. I am delighted to be able to let you know that at the 55th AOC Annual International Symposium it was announced that the AOC BOD had agreed with this initiative; details of the on-line implementation of the scheme were being worked out but to keep the momentum up, the UK Chapter has implemented an interim scheme of which more later.

UK Chapter Elections are due early in 2019. Please consider standing, and joining the UK Chapter BOD. A separate Chapter BOD newsletter will be issued with this December newsletter.

Christmas Awards Dinner The Christmas Dinner earlier in December was great fun and gave us a chance to recognise the achievements of some of our members. We want it to be bigger and even better next December so please book as early as possible. Please make an effort to join us; even bring some friends in 2019. They are assured of a warm welcome and a great evening in the beautiful RAF Club. In 2019 we are investigating holding it earlier, in late November, as the Club, and many members, are extremely busy in mid-December. Please let us know if you have any views, by emailing Ian Fish, our outstanding membership secretary.

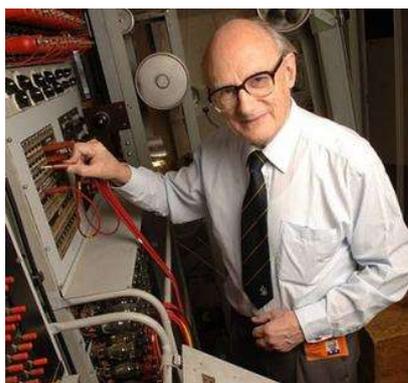


We honoured Ian Fish, in his absence with the AOC Lifetime Achievement Award (which will be presented at the AGM in March). VP Chris Howe MBE collected Paul Bradbeer's Award for his Outstanding Lifetime Achievement in EW and will present it to Paul early in the New Year.

John “Jacey” Wise MBE attended with his wife Sandra and received his Award for Distinguished Services to the AOC and UK Chapter along with a UK Chapter Commendation. International Region 1 Director, Dr Sue Robertson, presented John Clifford OBE with the AOC Board of Directors award for outstanding work and achievement in EW policy, doctrine, concepts and operations, among other things. Sue noted that this was the first time the award had been presented in 7 years. Chris Howe MBE then concluded the awards by presenting John with a UK Chapter commendation. All in all, an outstanding evening ☺ Phil Davies and Dave Peck provided the photography. More of Dave’s images can be viewed for a short time on Flickr - [AOC 15Dec18](#)

Busy Months – November and early December were busy months, probably for many. In mid-November Professor David Stupples and your President attended an outstanding Classified CEMA workshop after a request for help from 45 Cdo Group and the wider 3 Cdo RM. 45 Cdo are preparing to deploy to exercise with 3MEF in 2019, along with specialist EW forces and later to Eastern Europe and sought help in preparing for these deployments. It was an exceptional day and evening all around. The following day I flew to DC for the 55th AOC Annual International Symposium which was an improvement on recent years with a much better exhibition space, which, like Europe and Asia events remained open pretty well throughout the Symposium. The trip to DC took only a little longer than the trip to Arbroath, and DC was a lot warmer! Finally I attended part of the EW & Cyber Symposium at Shrivenham and very much enjoyed catching up with so many friends and Chapter members; it was especially gratifying to meet so many young and hugely enthusiastic members. It is good to be able to report that the Symposium has very much returned to its roots covering a reasonable chunk of the EM terrain. The highlight for me though was the Dinner at STEAM, in Swindon, where discussion carried on until late in the evening.

Tony Sale Award for Computer Conservation 2018 – Tony Sale FBCS (1931 – 2011) was a British electronic engineer, computer programmer, computer hardware engineer, and historian of computing. He led the construction of fully functional Mark 2 Colossus computer between 1993 and 2008. The rebuild is exhibited at The National Museum of Computing at Bletchley Park in England. [Wikipedia] Tony was also a distinguished member of the AOC and UK Chapter, and an inductee in the AOC Technology Hall of Fame, proposed by the UK Chapter.



Tony Sale with Colossus at Bletchley Park Techworks! director Susan Sherwood with Tony Sale Award judge Nigel Sale

A US project to reconstruct three landmark generations of flight simulators has been named as winner of an international prize for computer conservation. The UK-based Computer Conservation Society presents the **Tony Sale Award** every two years. For 2018, it has gone to the Center for Technology and Innovation in Binghamton, New York, also known as Techworks!, which has brought back to life a Second World War analogue flight simulator, a 1960s solid-state hardware

version and a digital simulator from the 1980s. You can read the full story by searching for “Flight Simulator restoration wins Tony Sale Award”.

New Articles – Jacey Wise MBE has provided an excellent short paper on “**Sophisticated Software**” – many thanks to John for his prodigious and prestigious contributions, of which this is his 49th. Don’t be shy – please feel free to contribute an article to the UK Chapter. 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. **To potential New Authors** - the UK Chapter membership includes many world class professionals and many of them are distinguished writers in their own fields and on a wide variety of media. All of them are very happy to encourage new thinkers, writers and creative folk and to help them polish their work.

Serving Military 1-Year Complimentary Membership as mentioned earlier, the AOC BOD has agreed to offer 1-year complimentary membership to serving military. The UK Chapter is working with the AOC to develop a straightforward practical scheme for individuals, units, stations, etc, who might benefit themselves, the military and the UK, from knowing more about EW, EM Operations including SIGINT, CEMA, IW/IO, cyber, etc. in the warfare contexts of the 21st Century including A2/AD, Multi-Domain Warfare, Hybrid Warfare and so on. AOC membership provides an outstanding monthly magazine written by passionate world-renowned experts, access to frequent Webinars and to the 80 hours or so of content from world leading academics and military specialists, career advice, CPD at some events, and much more. The arrangements will be in place in early January, when the UK Chapter will follow up, and run the scheme in the UK.

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. Do 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 most welcome. The 3-year young adult complimentary membership is a great initiative and one the UK Chapter has worked towards for many years – please think about it and use it wisely, for example let your apprentice and training teams know about it. 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.

Happy Holidays from Clifford Towers for another Year!



John Clifford OBE / UK Chapter President

SOME DATES FOR YOUR 2019 DIARY

Third AOC EW Asia - Singapore Conference – Marina Bay Sands, 29/30 January 2019

UK Chapter AGM, Wednesday 20 March 2019 RAF Club, London

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

Visit to 30 Cdo Y Sqn Stonehouse Barracks Plymouth Date TBD 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.