



LONDON

AFCEA-UK London Newsletter

February-March 2008

Deadline for articles for the next Newsletter is 17 May 2008

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Dear member,

This is my last Newsletter and I now pass the reins over to Squadron Leader Darren Jones as I am posted to TCW. The last Newsletter was the first ever electronic version with no hard copies being distributed to the Chapter members and from the response we have received so far appears to be a success, but we are always grateful for comments to improve the product. Should any members have any comments about the newsletter or the medium for its distribution please contact the new Newsletter Editor.

The London Chapter will hold its TRICIS 2008 conference this year on 9th September 2008 in MOD Main Building, London. The theme for this year's TRICIS is 'C4I in the Changing Security Environment'.

Future London Chapter AFCEA meetings will be held at Inns of Court, which is an excellent facility that has recently been redecorated. Details for attending forthcoming meetings can be found within the Newsletter and on the [AFCEA London webpage](#).

Flight Lieutenant Martin Edwards
 Outgoing : Newsletter Editor
 Squadron Leader Darren Jones
 Incoming : Newsletter Editor

Forthcoming Events

Brigadier Nick Rigby (Retd) - ESRI

8 May 2008

Corporate Luncheon at the RAF Club

14 May 2008

e-Borders

Dr Brooke Hoskins, Raytheon Systems Limited, Programme Director

The first AFCEA presentation of 2008 was given by Dr Brooke Hoskins, the Programme Director of Trusted Borders. Raytheon Systems Limited (RSL) has succeeded in winning the e-Borders programme with contract award on the 14 November 2007. RSL is now heading a consortium, including other team members such as Serco, Detica, Accenture, QinetiQ, Cap Gemini and Steria, to deliver the programme.

The e-Borders programme provides an insight into the

current political and domestic environment surrounding border management and security; Brooke provided a fascinating presentation covering the background history and future programme of work. The aim of this large and complex programme is to create a joined up, modernised, intelligence-led border control and security framework. Enhanced information about passengers and their movements, and its communication through the use of new technology, processes and procedures will

allow the Immigration Service and other agencies including Police, Customs and Excise, and UK Visas to work more closely.

The programme will allow the introduction of pre-boarding electronic checks of all persons flying to the UK. It is hoped this will "export the border" providing the ability to stop illegal immigrants and known security risks travelling. It will also collect information on when people arrive and whether they leave, which will hopefully stop peo-



Brigadier Neil Couch and Dr Brooke Hoskins

ple staying in the UK illegally. With 300m passenger movements every year the audience was struck by the scale of the undertaking and the associated data capture, processing and storage requirements.

Brooke described the overarching objectives of e-Borders as security, effectiveness and efficiency. It is planned to achieve this through three major work strands: border management at all ports; an information and alert hub via a multi-agency operations centre; and analysis to support visa processing. It is hoped that bona fide travellers will also gain from faster clearance at points of entry.

e-Borders initially began life as Project Semaphore which was used to inform the design of, and de-risk, the main e-Borders programme. Project Semaphore started in December 2004, with the capture of Advance Passenger Information (API) on a limited number of the selected routes. Brooke described the stakeholder map which to be described as complex is an understatement however, fundamentally divides into three main groups; the carriers, Government departments and organisations, and the ports (air, sea and rail). The Programme is effectively a very large business change programme enabled by IT, most of which will be COTS based, and will

be conducted in 4 releases:

- Carrier Connectivity.
- The creation of the e-Borders Operations Centres.
- Primary Line Capability at ports and airports.
- Service enhancements.

The first release is expected to take place in late 2008 and it is planned for the majority of the capability to be delivered in time for the 2012 London Olympics.

The evening was extremely well attended and the high quality of Brooke's presentation was reflected by the vigorous and challenging question and answer session that followed. We would all like to thank Brooke for sparing the time to talk to the London Chapter, her open and candid views, and getting the 2008 presentations off to an enlightening and informative start.

Many thanks for such an interesting insight into a very important programme.

Article : Major Pete Hale

Forthcoming Events				
www.afcea.org.uk				
8 May 2008	Evening	Inns of Court	ESRI	Brigadier (Ret) Nick Rigby
14 May 2008	Day	RAF Club	Corporate Luncheon	
5 Jun 2008	Evening	Inns of Court	TBC	
26 Jun 2008	Day		Golf Day	
9 Sep 2008	Day	MOD Main Building	TRICIS	DCDS(EC)

The SCOPE Programme

SCOPE

The meeting on the 7 February in Worship Street was attended by 72 AFCEANS a record number for many years, all wanting to learn more about SCOPE. We were not disappointed as Dr Michael Taylor's Presentation on SCOPE was both informative and entertaining. His introduction slide stated that:

"SCOPE is an extraordinary success story! Although very few parts of HMG know the scale of the challenge or the substantial benefits that have already been achieved. It has been made possible by effective collaboration between the Cabinet Office, 12 HMG Partner Departments and many Private Sector suppliers."

For those who work in the public sector, there will be an understanding of the enormity of this task, particularly as since the inception of the Programme Dr Taylor has had the privilege of serving many very senior chiefs in Whitehall. These have included 3 Cabinet Secretaries/Heads of the Home Civil Service, 4 Permanent Secretaries, 5 Chairman of the JIC and currently the Prime Minister's Security Advisor.

SCOPE is a business transformation programme of extreme complexity which is addressing the way in which intelligence is stored, disseminated, accessed and used across HMG. In order that efficiency and effectiveness gains could be achieved, it has been necessary for the community of 12 key HMG Departments (and many hundred Business Units) to align their business processes as well as developing, sharing and implementing common information and

technology standards. To do this it was necessary to engage with many intelligence professionals who had detailed knowledge and understanding of how improved decision making could be achieved. This was and continues to be, a very significant achievement by the entire SCOPE community.

Part of the success of SCOPE can be demonstrated by the world class Shared Service that has been operational for over 12 months. These services allow SCOPE users to communicate and work together in ways which have never been possible before SCOPE. To achieve this outcome SCOPE required a strong and effective Governance process that was driven by the business needs and goals of the SCOPE intelligence community.

So what world class services has SCOPE already delivered to the SCOPE community? These are many and varied and include:

- a stabilised UKIMN infrastructure in 2003;
- a highly secure E-Mail Pathfinder in 2004,
- the connection of HMRC staff to UKIMN in 2005;
- the deployment of a Limited Operational Capability Pathfinder to the MoD in 2005;
- the delivery of world class shared services to DTI, Home Office and the Serious Organised Crime Agency in 2006; and connectivity between all 12 HMG Partners in 2007.

SCOPE Shared Services are already providing a far more effective means of secure communications and collaboration across the community. This in turn has led to an increased demand for the initial services to be extended to more users across the community.

Performance metrics have been important in helping stakeholders understand and quantify the business benefits of being 'joined up' from both business process and communications perspectives. SCOPE secure messages and requests for information can now be achieved at a speed more than 50 times faster than was possible before SCOPE. The impact of this tranche of capability has whetted the appetite for the further delivery to come.

The closing approbation came from a comment made by Sir David Omand "..... The challenges have been met through all the Partners, both producers and consumers, being prepared to settle on agreed requirements and work together on funding and delivering SCOPE in practice. And through the close collaboration with the industrial Partners that has been a welcome feature of the Programme throughout. My congratulations to all concerned."

Article: Frankie Jefferies

The AFCEANs who attended Dr Taylor's presentation I have no doubt, will endorse this sentiment.



Paul Fielding receives his 2007 AFCEA Meritorious Service Award from Jean Mcleish

Software Engineering & Autonomous Systems DTC

6 Mar 2008



Wing Commander Ian Dryden presenting Dr Bill Bardo with an AFCEA Tie

Following the continuing thread of talks from the 4 Defence Technology Centres (DTC), Dr Bill Bardo, Technical Director of the Software Engineering & Autonomous Systems (SEAS) DTC gave an informative and thought provoking presentation on the future possibilities for Autonomous Systems. The SEAS DTC was the fourth DTC to be established by the MOD with partners in the consortium from BAE Systems, MBDA, Rolls Royce, Roke Manor Research, SELEX Sensors & Airborne Systems and CAE(UK), with smaller research companies and uni-

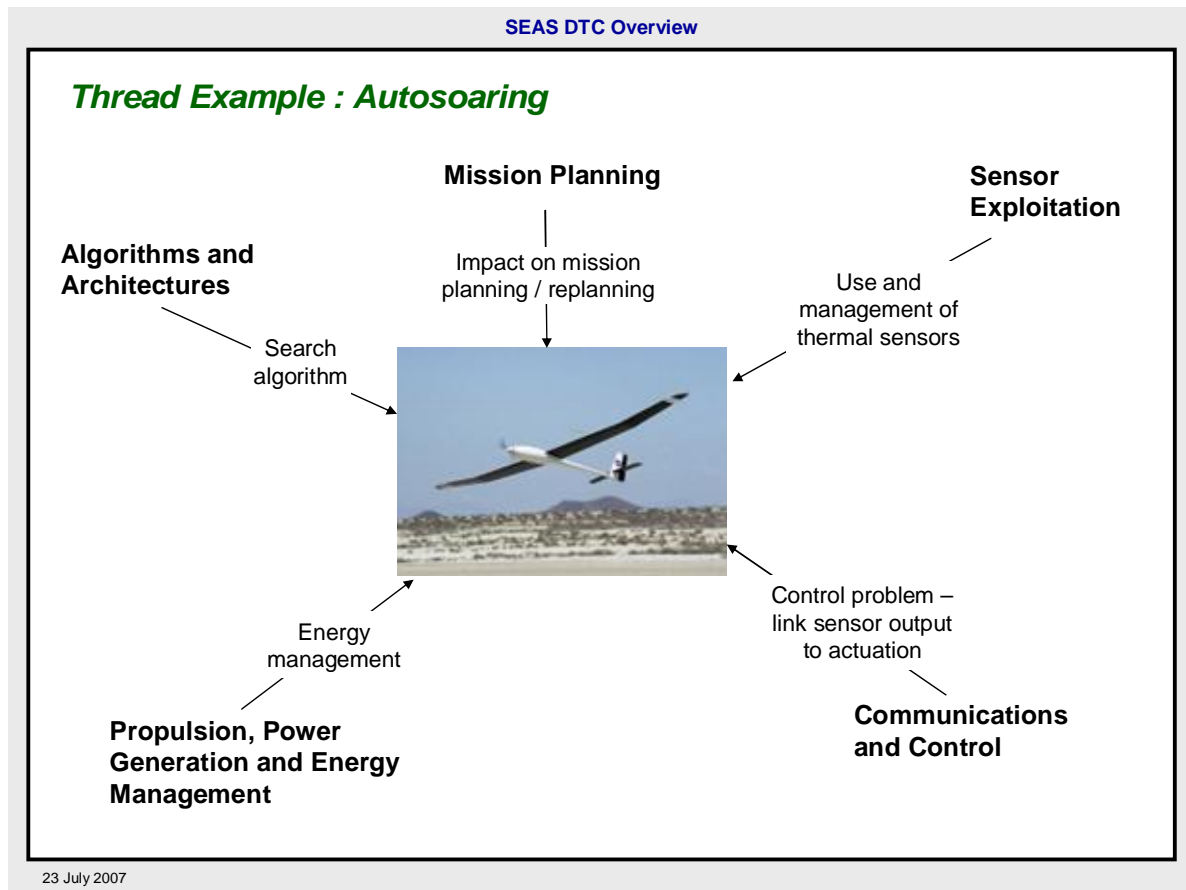
versities as research providers.

The aim of the SEAS DTC is to research innovative technologies relevant to autonomous systems through the adoption of systems engineering approaches, to facilitate pull-through of technology into military capabilities. This is an area of particular interest and high priority to the MOD as autonomous unmanned systems have the ability to reduce costs and the hazards associated with human involvement.

Dr Bardo articulated the challenges faced to make a practical autonomous system, in-

creasing the ability of systems to act without human intervention, whilst reducing cost, increasing survivability, speed and endurance. However, a key factor is the increasing public acceptance of no human intervention as this will be the main stumbling block to wider deployment.

Core to the DTC's research strategy is 'How are decisions to be made independently of humans?' and the removal of obstacles to systems acceptance. Improvements in navigation, endurance, self-awareness, secure and ro-



but communications are needed and technological developments are seen as the building blocks to allow this. Other influences to be considered are the legal, cultural and trust aspects, which all need to be factored into any proposed use. The employment of technology alone will not address peoples perceptions and concerns about autonomous systems.

A number of research themes are being developed such as: Mission Planning and Decision-Making; Sensor Exploitation; Communication and Propulsion; Power Generation and Energy Management. Dr Bardo explained the push, pull relationship with academics carrying out research in an area that is not specifically military and the MOD pulling that research into future projects. The DTC effectively translate academic and MOD terminology, the research from different themes are combined to inform threads (areas of interest). One example of a thread is Autos soaring, where improved sensor exploitation, search algorithms, control systems and energy management could improve the endurance and effectiveness of airborne sensor platforms. Spin-offs have developed weather avoidance techniques for UAVs.

A number of contracts have been let in the ISTAR, Communication and Mathematical areas, with new mathematical techniques underpinning new technological developments. Bill was able to provide examples of achievements already attained from the research.

- Interpretation of sensor data, with the system being able to identify the differences between 2 corresponding pictures to feed intelligence operations.
- Identification of suspicious behaviour in crowds.
- Secure Robust Communications using a network of covert sensors to provide switchable ground hugging/skyward antenna, or communications through seawater.
- Energy efficiency in Rolls Royce engines has increased range by 15%.

Dr Bardo provided an excellent insight into future academic research being pulled through to military applications. However, he was keen to articulate that there will always be soft areas that could prevent development, but this should not prevent research as perceptions and requirements change. We would all like to thank him for his astute and thought provoking observations.

Article: Sqn Ldr Darren Jones

AFCEA LONDON PROGRAMME – 2008

In preparation for the TRICIS 08 conference, the theme for this season is “C4I in the Changing Environment”. AFCEA London meetings are open to Members and their guests and are normally held on the first Thursday of the month at the 68 (Inns of Court & City Yeomanry) Signal Squadron Headquarters, 10 Stone Buildings, London, WC2A 3TG (nearest tube Chancery Lane). Starting at 18.00 hrs (unless otherwise indicated on the programme). Please arrive promptly. Drinks are available at the bar and supper is timed for 18:45 hours, followed by the speaker for the evening (presentations are at UNCLASSIFIED level unless otherwise notified). Reservations and payments for the meetings should be made using the pro-forma on page 9 (the booking form is also available on the AFCEA web site) and should be received by the Treasurer no later than the preceding Friday lunchtime.

AFCEA(LONDON) - ANTICIPATED NEWSLETTER PUBLISHING SCHEDULE

Deadline for Articles	At Webmaster	Distribution Date/Uploaded to web
10 Jun 08	19 Jun 08	24 Jun 08

How to join AFCEA London

How to find AFCEA London

To renew your membership—or join—please contact the Membership Secretary by Email
london.memb.sec@afcea.org.uk

Current Membership rates are £27 per annum or £65 for three years!

Alternatively download a form from www.afcea.org.uk and follow the instructions.

If your company would like to support AFCEA and take out a Corporate Membership permitting your staff to attend any of our events please contact Jeremy.nash562@mod.uk

Monthly meetings are held at the:
68 (Inns of Court & City Yeomanry) Signal Squadron Headquarters, 10 Stone Buildings, London, WC2A 3TG

Directions are:-

1. Exit Chancery Lane Tube Station (Chancery Lane South) and straight ahead onto High Hoburn.
2. In c.200 m turn left onto Chancery Lane.
3. The TA Centre is 100m down Chancery Lane on the RH Side.
4. First door that you come to: Press button labelled Officers Mess, and you will be let in.

MEETING RESERVATION FORM

This form is designed for booking the normal monthly meetings that now take place at the [Inns of Court, 10 Stone Buildings](#) entry via door in Chancery Lane. Please ring bell for access.

[Parking is not available.](#)

Time Bar opens 1800 hrs, Dinner 1845hrs, Presentation 2000hrs. All times approx -but we aim to finish by 21.30. Bar will not open after the presentation.

Menu: A 3 course meal with wine & coffee.

Please complete the booking form below including your membership number and contact details including email and contact details for your guests, then if there are any changes to the stated programme we can let you all know. Please return with your cheque made payable to AFCEA London.

Are you going to invite a guest / friend / customer ?

Each meeting is open to members and their guests only. It is necessary to book using this form and to include payment. This should be received by AFCEA at the latest one week before the event. Price is £25 per head. The special rate of £20 is available to MOD employees, students and members who are not working. Everyone else please pay full rate. (Please provide all details requested & send a separate form for each event)

..... Separate here.....

To Chris Yorke
Compucat Europe Limited
The Mews
18-21 Church Gate
Thatcham
Berkshire
RG19 3PH

Please book now!

[Inns of Court & City Yeomanry](#)

Please enrol the following for the meeting
on date

Membership number, Name, Representing, E mail-----

(If you have special dietary requirements please provide details here).

I enclose a cheque to the value of £..... payable to AFCEA London

NameSigned Telephone

E Mail

Please ensure that all requested information is provided each time you book then you will be contacted only if the event is changed, cancelled or you were too late to gain a place.

Receipts are not sent out but may be obtained from the treasurer on request on the evening

[Directions to the Inns of Court venue are found at the bottom of page 8.](#)

[Please take copies for all - and for the future.](#)



'C4I IN A CHANGING SECURITY ENVIRONMENT'

This year is a TRICIS year. For the benefit of our readers who may not be familiar with TRICIS, it is one of the major activities undertaken by the Chapter and is an event that provides an opportunity to brief and stimulate debate with military and industry colleagues on a current theme that is of mutual interest to Defence and the wider C4I community – the theme for TRICIS 2008 is 'C4I in a Changing Security Environment.'

This year's TRICIS 2008 will take place on
Tuesday 9th September 2008
and will be held in London at the
Ministry of Defence Main Building

Keynote address from:

Lieutenant General Andrew Figgures CBE

Deputy Chief of Defence Staff (Equipment Capability)

Senior Responsible Owner for UK Network Enabled Capability/Command and Battlespace Management



Invitations for TRICIS 2008 will be sent out to all members during the coming weeks and the event will be publicised through the Signal magazine and the AFCEA UK website. We will have to limit the number of delegates to around 120 so should you wish to register an early interest (which you are welcome to and indeed, we commended you to) to attend you are requested to contact Chris Yorke (email: tricis2008@afcea.org.uk).

The delegate attendance prices are as follows: Industry Members: £225.00, Non-Members: £250.00 and Military: £99.00 (includes free AFCEA membership for 1-year).

Join us at TRICIS on Tuesday 9th September 2008.

