



LONDON

AFCEA-UK London Newsletter

January 2008

**Deadline for articles for the next Newsletter is
14 February 2008**

Inside this issue

Members News	1
Defence Information Fusion DTC	2-3
Forthcoming Events	3
Spectrum Management	4-6
AFCEA Membership details	7
Event Booking Form	8
TRCIS Advert	9

Dear member,

Not only is this the first Newsletter of the New Year, it is also the first ever electronic version with no hard copies being distributed to the Chapter members. The Newsletter will be distributed electronically via the AFCEA UK website and by email for a trial period. It is therefore imperative all members ensure their correct email address is registered with the Membership Secretary. Also if any members have any comments about the newsletter or the medium for its distribution please contact the 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 Environment'.

Don't forget, we hold our monthly events at ULOTC Handel Street, which is an excellent facility that continues to serve us well. Details for attending forthcoming meetings can be found within the Newsletter and on the AFCEA London webpage.

Flight Lieutenant Martin Edwards
Newsletter Editor



Forthcoming events

SCOPE

Dr Michael R Taylor, Cabinet Office
7 Feb 2008

Software Engineering & Autonomous Systems DTC

Bill Bardo, SEAS DTC
6 Mar 2008

Defence Information Fusion DTC

Dr. Andrew Tilbrook

1 Nov 2007

Dr Andrew Tilbrook, the director of the Data & Information Fusion Defence Technology Centre (DIF DTC) gave a very engaging presentation on Data and Information Possibilities in the next 10 years. The DIF DTC is a General Dynamics led research consortium contracted to undertake a programme for MoD running for 6 years up to 31 Mar 09. The contract has just had the consortiums proposal for work over the period 2006 to 2009 endorsed, and contracted by MoD. Industry partners in this venture apart from General Dynamics are BT and QinetiQ, and academic

partners are Bristol, Cambridge, Cardiff, Cranfield, de Montfort, Imperial College, Southampton and Surrey. The research programme is worth £60 million, and is 50% funded by MoD.

DIF DTC has split its work into 2 phases, the Phase II programme seeks to build on the successful Phase I research programme by integrating successful outputs into 'cluster' projects that draw on the strengths of several projects. The resource allocated to cluster projects is around 50% of the total budget. Several cluster projects have already been approved,

covering the areas of Biometrics, C2 Agents, Agent Middleware, Advanced Multidimensional Fusion, and Tracking. It is also likely that some cluster project work will address the area of Information Fusion.

Dr Tilbrook's talk was wide ranging and covered technology as we know it today citing examples such as the bombs at Russell Square and Bali and the extensive capability that ordinary people can capture key moments with everyday equipment such as the mobile phone. This personally captured information can then be in the public domain within minutes.

He also gave us some very thought provoking predictions on the way that technology could be used in the future and how limitations of bandwidth would impact on how information could be distributed. The growth of civil sector communication technologies, and computing technologies has been startlingly rapid, and it is unlikely that the pace of change will slacken in the next ten years. In the 1970's, university computer departments were immensely proud of their mainframes



Wing Commander Ian Dryden presenting Dr Andrew Tilbrook with an AFCEA tie

with a massive 32Kb storage. Now it is common for individuals to carry around memory sticks with several Gb storage, and Samsung have recently announced a 64 Gb chip, with Hitachi about to release a 4 Tb CD. In a few years time we can expect our mobile phones to have been replaced by multimedia devices holding over a Tb of memory. These devices will be cheap, disposable (shelf life less than 2 years as technology continues to evolve); and will be ubiquitous.

He highlighted the significance of the terrorist threat and how they have access to global civilian infrastructures that allows them to cause maximum damage to a country or organisation's communication infrastructure. In recent years our enemy has proved they are very capable and resourceful at using the civil infrastructure to maximise effect such as in Estonia earlier this year and it is imperative we stay ahead of them.


He emphasised the need to review the way that we acquire capability in order to keep abreast with the way that technology is advancing and focus more on service orientated architecture, in order to match the capability of our opponents. A key question is thus how can the MoD best take advantage of a rapidly evolving civil infrastructure, whilst maintaining a high level of security on key traffic as it is unlikely to embark on a major new procurement programme for communications and IT before 2015. Dr Tilbrook was well received by the audience and he finished up with a question and answer session that focussed heavily on the nature of future projects that DIF DTC could be involved in and how the MoD tasks these projects.

Article: Frankie Jefferies

Forthcoming Events

7 Feb 2008	Evening	Worship Street	SCOPE	Dr Michael R Taylor, Cabinet Office
6 Mar 2008	Evening	ULOTC	Software Engineering & Autonomous Systems DTC	Bill Bardo, SEAS DTC
13 Mar 2008	Day	RAF Club	Corporate Luncheon	
3 Apr 2008	Evening	Inns of Court	Dec ISTAR	Air Commodore Gordon
8 May 2008	Evening	Inns of Court	ESRI	Brigadier (Ret) Nick Rigby
9 Sep 2008	Day	MOD Main Building	TRCIS	DCDS(EC)

A Market-Based Approach to Military Spectrum Management: Implementing Cave



Steve Jones, Ofcom

6 Dec 07

Using the electro-magnetic spectrum for wireless underpins an estimated 3% of UK GDP and its value to the economy has grown by 50% in real terms since 2002 to over £40bn a year. Public sector spectrum holdings amount to nearly half of the total spectrum below 15 GHz and the MOD is the largest public user of spectrum holding about a third of the spectrum below 15 GHz.

In the public sector, the MOD is in the forefront of market-based reform to spectrum management - the introduction of spectrum trading and in-

creased sharing with other users, the application of spectrum pricing and the acquisition of spectrum through the market. This presentation by Mr Steve Jones on 6 December 2007 outlined how the MOD is implementing more effective use of public sector spectrum in order to fulfil the Government commitment to spectrum reform whilst retaining access to the spectrum it needs for training and force preparation within UK which is of overriding importance to the MOD.

Steve explained how the demand from commercial opera-

tors for certain key parts of the electro-magnetic spectrum (frequency bands), especially those suitable for mobile applications, already exceeds availability and this trend is forecast to continue. There is also demand from the public sector that has not yet been precisely quantified, but is described in the Government's Forward Look: A Strategy for Management of Major Public Sector Spectrum Holdings. Spectrum is an essential input to both the commercial and public sectors. It is widely used in the telecommunications, broadcasting and trans-

port industries and also by the emergency services, military and science. Valuing spectrum is difficult given the early stage of development of the spectrum market and depends on various factors, including the characteristics of the frequencies in question and past market developments and regulatory decisions. However the Independent Audit of Spectrum Holdings estimated in 2005 that the current market value of public sector spectrum holdings below 15 GHz ranged from £3bn to over £20bn, depending on the methodology used. It is important that such substantial holdings are managed and used as efficiently as possible and that full advantage is taken of oppor-

tunities for commercial and public sector users to access them. Failure to do so risks holding back innovation, competition and growth in wireless services to the detriment of citizens, consumers and businesses. It is also essential that MOD retains access to the spectrum it needs for equipment test and development, training and exercising, force preparation and peacetime operational requirements within UK, which is of overriding importance to the MOD. The way MOD manages UK spectrum is developing rapidly in recognition that into the future the cost of spectrum will change in line with market demand. Steve described how the MOD



Wing Commander Ian Dryden presenting Steve Jones with an AFCEA tie



has recognised that this is an opportunity to reduce pressure on the Defence budget by exploiting spectrum efficiently and effectively. To do so however requires that the MOD works with the other public users with whom it shares spectrum to change the way that public sector spectrum holdings are governed, managed and exploited.

By May 2008 the MOD will complete a database of spectrum use and will publish a detailed implementation plan setting out plans

for those bands that can be released or shared, and including plans for future military spectrum requirements. The release of prioritised bands will begin during 2008 with further bands following in 2009. A significant proportion of the MOD's spectrum holdings will be released during 2009 and 2010. The MOD has already begun a fundamental review of its demand for spectrum now and into the future and, with the Office of Communication (Ofcom), is driving forward similar reviews by other public sector spectrum users. The audit of spectrum use will tell the MOD what spectrum it uses in the UK, how MOD uses it and with whom it shares.

Looking to the future the MOD's UK spectrum demand study, which commenced this December, will inform Defence spectrum

strategy, help the MOD protect future Defence spectrum needs and provide it with a forecast of future spectrum costs, which will be vital for the Defence equipment acquisition community. The demand study, which the MOD believes is the first of its kind anywhere, will consider a wide range of factors affecting Defence demand for spectrum in the UK including capability gaps, threats and commercial and doctrinal developments driven by technology as well as the operational and training requirements mentioned earlier. It will produce a forecast out to 2027 of the demand for existing military radio spectrum in the UK and provide the MOD with a forecast of changing patterns of demand for spectrum in order to inform decisions on the sharing, release and acquisition of spectrum to and from the market. It will also improve the MOD's understanding of the demand and potential uses for UK military spectrum from economic, market and technical perspectives, provide the MOD with an analytical framework for estimating the future demand for military spectrum and provide the MOD with the instruments necessary for spectrum policy decision making.



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 University of London Officers Training Corps, Handel Street, London WC1N 1NP, (nearest tube Russell Sq.) 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
14 Feb 08	21 Feb 08	28 Feb 08
10 Apr 08	17 Apr 08	24 Apr 08

How to join 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

How to find AFCEA London

Monthly meetings are held at the University of London Officers Training-Corps –Yeomanry House—Handel Street—London WC1N 1NP Directions are:-

1. Exit Russell Square Tube Station (there is only one exit) and turn right onto Bernard Street
2. In c.100 m turn left onto Hunter Street
3. In c.250m turn left onto Handel Street
4. The TA/UOC Centre is 25m down Handel Street on the RH Side
5. First door that you come to: **Press button 1** labelled QM Dept. 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 **ULOTC, Handel Street, entry via door approx half way along Handel Street. Please ring QM dept bell for access.**

Parking is not available but there are a number of pay car parks around Russell Square.

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
Thattham
Berkshire
RG19 3PH**

Please book now!

ULOTC, Handel Street

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 ULOTC venue are found at the bottom of page 7.



'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 Figures 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 Sqn Ldr Jez Nash (Tel: 020 721 83987, 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.

