



Defence Technology Club

Defence Academy of the United Kingdom
College of Management and Technology
Shrivenham
SN6 8LA

THE DEFENCE TECHNOLOGY CLUB NEWSLETTER – SUMMER 2011

May I wish you all a Happy Easter from the Defence Technology Club and we look forward to seeing you at our events later on in the year. Our Cocktail Party will be at the new Larkhill Artillery Mess on the 10 May 2011, and we have started to prepare for the Defence Technology Club Symposium on 22 September 2011. Several new members have joined both from Industry and Cranfield University, and we hope to see them at our events later this year.

UPDATE ON TECHNICAL TRAINING AND EDUCATION AT SHRIVENHAM

Senior Officers Technology Course. The Applied Technology Course for Senior Officers (ATCSO) has been specifically designed as key employment training for recently appointed or prospective One Star Commanders, Heads and Senior Civil Servants. Sponsored by the Chief Scientific Advisor, Professor Mark Welland, the course aim is to enhance students' understanding of relevant technologies in order to increase their effectiveness as operational formation commanders and senior staff officers. Delivered by Cranfield University and DA-CMT the course is scheduled over two days and comprises a series of focused briefings by senior military officers and academics. The course seeks to further students' understanding of the impact that current and emerging technology has on Defence decision-making. It outlines the importance of innovation and adaptiveness in an increasingly technologically-complex battlespace and the impact of disruptive technologies on operational tempo. Recent developments and progress with those fundamental technologies that underpin defence equipment capability are outlined, and the frictions caused by technological change on the equipment acquisition process discussed.

Battlespace Technology Course. The Battlespace Technology Course 4 continues in May and will be joined by Course 5 in June; a total of 80 students. Course 4 finishes in November 2011 and then the students will depart for their technical staff jobs, whilst Battlespace Technology Course 5 finishes in February 2012 before students depart for the Intermediate Command and Staff Course (Land). We are already delighted to welcome several members of Battlespace Technology Course 4 to the Club. Members from Courses 1 to 3 are encouraged to return for the Cocktail Party and the Symposium, and to coordinate their visit to Shrivenham to meet the directing staff, their tutors especially for those with dissertations, and their successors from courses 4 and 5. Four students from Battlespace Technology Course 1 have submitted their dissertations and returned to complete their Vivas for their Masters Degree, which have provided some interesting feedback to the Directing Staff at the Academy, and we look forward to many more in the future.

Technical Ammunition Education. The Ammunition Technical Officers (ATO) Course is from January to June each year for 18 selected British Army officers from the Royal Logistics Corps (RLC) and also 2 Canadian officers (Army/Navy/Air Force). It is the first part of a 17 month long course, with the second part taking place at Kineton in Warwickshire at the Defence EOD, Munitions and Seach School (DEMSS) formally the Army School of Ammunition. The students are

the Army's future experts across all ammunition and explosives. The ATOs of the RLC also lead in improvised explosive device disposal that is critical to the Counter-IED fight in Afghanistan, and to support the police in protecting the United Kingdom. Their understanding is underpinned by the education here at Shrivenham that includes: maths, chemistry, material sciences, chemistry of explosives, electricity and magnetism, armour design, ammunition design, electronics, attack of armour, attack of personnel and attack of aircraft. In addition the students research an ammunition or explosives related project to improve their understanding about technical research, investigation, trials and report writing. The projects are subjected to external scrutiny and validation by the City & Guild of London Institute, and can lead to a Level 7 (1st Degree level) award. The ATO Course celebrates 50 years of course graduations later this year.

Acquisition Employment Training. The Acquisition Employment Training Course was established in 2009 in response to the Role of Military in Acquisition (ROMIA) study conducted in 2008 that identified an enduring requirement for military personnel within acquisition posts. The course provides staff from the three Services and Civil Service with the knowledge, skills and techniques necessary to contribute to the delivery of capability through all stages of the Defence acquisition cycle. Thus far over 300 students have been trained to date with a further 170 planned for the remainder of the year.

Light Weapons. The Light Weapons Wing has continued to support Cranfield University Research into the future requirements for Small Arms sponsored by the MOD. The armoury continues to acquire weapons that involve modern technology, including new production methods and novel ammunition design as seen at the latest dinner night. Courses have also been organised for various Police services and US Departments.

Explosive Ordnance Engineering Education. The Explosive Ordnance Engineering MSc is a key postgraduate course for the MoD with both full time students on a year long residential course and others on single week long modules that are specific to their areas of work across all areas of the MoD.

ADVANCED CLASS DINNER 2011

Over 50 Club Members and guests attended the highly enjoyable Advanced Class Dinner in Kitchener Hall on 4 March. Several of our new members from Cranfield University attended the Dinner including Professors Witty and Densten who are Heads of the Department of Informatics & Systems Engineering and Management and Security respectively. We appreciate the effort of many of the members in travelling to attend the Dinner, some from as far afield as the Dordogne in France. Consequently we will try to inform members of provisional dates of the events as early as possible in order to assist with planning visits to the UK from abroad.

Pre-dinner Lieutenant Colonel (Retired) John Starling gave an excellent presentation on the new developments in material science and their application in the design of weapon systems, and Mr Carl Mantell provided us with an overview of the future direction of the College of Management and Technology. Dinner was hosted by our Chairman Brigadier Mark Lacey, and after dinner the party continued in Kitchener Hall Bar until the early hours of the morning.



Brigadier Mark Lacey introduces the Speakers to the Advanced Class Dinner.



Lieutenant Colonel (Retired) John Starling presents the application of new design methods and materials in the production of prototypes for the soldiers weapon system.



Mr Carl Mantell explains the implications of the Strategic Defence Review on the Defence Academy and the College of management and Technology.

Serving and retired officers, and members of academia mix during Dinner.....



Some members of the Advanced Class



Mrs Kathy Clarke and Mr Jim Potts (and his Dinner Cartoon) from Technology Division



SYMPOSIA AT SHRIVENHAM

Club Members (of at least 2 years) are entitled to MOD rates (currently £245 rather than the commercial rate of £625) on most Symposia at Shrivenham. If you are interested in attending then contact the Cranfield University International Symposia Manager (Mrs Betsy-Jane Lawton) on 01793 78 5846, betsy@symposiaatshrivenham.com or the symposia office direct via their website www.symposiaatshrivenham.com making sure that you let them know you are club members.

Forthcoming events which may be of interest include:

Defence Electronics History Society Spring Lecture	5 May
CIPS Academic Forum	11 May
Armoured Fighting Vehicles	17 – 19 May
Systems Engineering	Nov – dates TBC
Stabilisation	8 – 9 June
Socio-cultural Knowledge	14 June
Culture in Conflict	15 – 16 June
Military Anthropology Workshop	17 June
Delivering Availability and Capability	21 – 22 June
Electro-Optics & Infrared Seekers & Countermeasures	6 – 8 July
National Security & Intelligence: The Resilience Agenda	13 July
Weapons, Ordnance Munitions and Explosives	27 – 28 July
Small Arms and Cannons	23 – 25 August
Vehicle Health and Prognostics Management	28 – 29 September
DIS Symposium	14 September
International CBRN Defence	4 – 6 October
Countering Home-grown Terrorism	18 – 20 October
Electronic Warfare	7 – 8 December

MEMBERSHIP ISSUES

As usual, please keep us informed of any changes to your contact details through our membership secretary, Sue Offer:

- By phone on 01793 785424
- By Email to soffer.cmt@defenceacademy.mod.uk
- In writing to the address at the top of this Newsletter
- On the internet via the "contact us" tab on the web address in header to this letter.

MEMBERS' NEWS

This section is for members to update the Club about their activities, achievements and events of mutual interest. For instance, you may have changed jobs recently and would like to let other members know where you are working and how to contact you. Soft copy can be emailed to me at lwilliams.cmt@defenceacademy.mod.uk and hard copy can be mailed to the postal address at the top of this newsletter. Please try and keep submissions fairly short and to the point.

We are delighted to welcome the following new members to the Club:

Prof Iain Densten, Head, Department of Management & Security, Cranfield Defence & Security
Maj Ben Creed, BTC 4 Student
Maj AJE Roberts, BTC 4 Student
Major (Retd) Stuart Olden, Business Lead – Land, BVT Defence Services Limited

It is with great sadness that we announce the death of the following Club Member:

Colonel Cyril Scott. ACDC. Died Nov 2010

FUTURE EVENTS

The Annual Cocktail Party is planned for **Tuesday 10 May 2011** in the New Officers Mess at Larkhill, which should be of interest as presently the majority of the Royal Artillery memorabilia is being moved there and will be on display. The proforma is included with the newsletter and we would be grateful for its return by **20 April 2011**.

The Defence Technology Club Symposium, AGM and Annual Dinner are planned for **Thursday 22 September 2011**. More details will be promulgated in the Autumn Newsletter.

The Committee and I look forward to meeting with as many of you as possible at the Cocktail Party in May.

Laurence Williams

Lieutenant Colonel L H Williams
Honorary Secretary
April 2011

ER... SORRY SIR, TO SAVE MONEY
THE SALMON HAS BEEN 3D PRINTED
IN A COMPOSITE PLASTIC...



Jim 3"