

SMi Training Presents....

Principles, Systems and Technologies for C4ISR

4th
DEC
2014

Central London

Hosted By: Dr Clayton Stewart, Professor Electronic and Electrical Engineering Department, University College London and Consultant, DARPA, NSF

Overview:

At the completion of this C4ISR Masterclass attendees will:

- Have a deeper understanding of the operational principles and underlying technologies of modern C4ISR systems
- Have a wider understanding of the complex linkages between technology, people, process, tools, business benefit and balance of investment decisions
- Understand how making significant investment in relevant S&T can lead to more effective defence systems
- Be able to better articulate the relationships between underlying technologies and C4ISR systems
- Be able to better execute your responsibilities within the wider C4ISR arena.

Who should attend and why:

This course on C4ISR should appeal to a variety of audiences including senior executives and military commanders, military staff officers, government acquisition staff, industry marketing personnel, development engineers from government and industry, diplomatic and political staff.

The technical depth of the course will be adjusted to the backgrounds of the audience. For an audience consisting of technical staff, quantitative aspects of the subjects can be explored, while for a more general audience quantitative aspects will be downplayed.

www.smi-online.co.uk/c4isr-system-tech.asp

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MC 397





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FULL DAY PROGRAMME

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|--------------|--|--------------|---|
| 8.30 | Registration and coffee | 13.30 | Intelligence <ul style="list-style-type: none">• Types• TPED Process• Collection platforms |
| 9.00 | Sensor Systems <ul style="list-style-type: none">• Radar• Electro-Optical/Infrared (EO/IR)• Electronic Support measures (ESM)• Laser radar (LADAR)• Maritime Domain Awareness (MDA) | 14.15 | Electronic Warfare (EW) <ul style="list-style-type: none">• Electronic countermeasures• Electronic support measures (ESM)• IR countermeasures (IRCM)• Lethal techniques• Electronic Counter-Countermeasures (ECCM) |
| 10.00 | Command and Control (C2) Systems <ul style="list-style-type: none">• The observe-orient-decide-act (OODA) loop• Ground forces C2• Naval C2 Platforms• Air C2 Platforms• Network centric warfare | 15.15 | Afternoon Tea |
| 10.45 | Morning Coffee | 15.30 | Cyber <ul style="list-style-type: none">• Information operations• Information assurance |
| 11.00 | Communication System Fundamentals <ul style="list-style-type: none">• Radio frequency• Optical• Satellite communications (SATCOM) | 16.00 | Unmanned Systems <ul style="list-style-type: none">• Autonomy• Unmanned aerial vehicles (UAV)• Design Example• Unmanned Surface Vehicles (USV)• Unmanned Underwater Vehicles (UUV) |
| 12.00 | Design Exercise | 17.00 | End of Masterclass |
| 12.30 | Networking Lunch | | |

About your masterclass leader:

Dr Clayton Stewart - currently: Visiting Professor Electronic and Electrical Engineering Department, University College London and consultant to DARPA, NSF, and others. 2007-2013: Technical Director Office of Naval Research Global, involved in Maritime Domain Awareness and Information Dominance research. 1994-2007: Corporate Vice President and General Manager of Reconnaissance and Surveillance Operation, SAIC, worked with DARPA, ONR, AFRL, NGA, NRO, FBI and others on UAV's, Information Exploitation, Imagery Analysis, Radar Systems, etc. 1990-1994: Associate Professor of Electrical and Computer Engineering and Associate Director of Center of Excellence in Command, Control, Communications, and Intelligence, George Mason University, taught courses in communications systems, radar systems, and signal processing. Also performed research in data fusion, signal processing, automatic target recognition, electromagnetics, and sensor systems. 1987-1990: Program Manager Artificial Ionospheric Mirror over the horizon radar system. 1984-1987: Principal Investigator Signal Processing, Sperry Corporate Technology Center, performed research on multi-sensor fusion, radar systems, electronic warfare, and signal processing. 1982-1984: Deputy Director Tactical Systems Division, Air Force Studies and Analyses, the Pentagon, performed analyses of C4ISR systems including JSTARS, Mk XV IFF, JTIDS, Have Quick. 1978-1982: Associate Professor Electrical Engineering, US Air Force Academy, taught undergraduate EE courses in computer architecture, communications systems, electronic warfare, radar systems, and signal processing. 1974-1978: Graduate student, earned MSEE and PhDEE. 1964-1974: USAF officer, Navigator/Electronic Warfare Officer, flew EB-57, EB-66, and MC-130CT aircraft including a combat tour. Awarded Distinguished Flying Cross.

PRINCIPLES, SYSTEMS AND TECHNOLOGIES FOR C4ISR

Thursday 4th December 2014, Central London

4 WAYS TO REGISTER

www.smi-online.co.uk/c4isr-system-tech.asp

FAX your booking form to +44 (0) 870 9090 712
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POST your booking form to: Events Team, SMi Group Ltd, 2nd Floor
South, Harling House, 47-51 Great Suffolk Street, London, SE1 0BS, UK

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Unique Reference Number	
Our Reference	LV MC397

DELEGATE DETAILS

Please complete fully and clearly in capital letters. Please photocopy for additional delegates.

Title: Forename: _____

Surname: _____

Job Title: _____

Department/Division: _____

Company/Organisation: _____

Email: _____

Company VAT Number: _____

Address: _____

Town/City: _____

Post/Zip Code: Country: _____

Direct Tel: Direct Fax: _____

Mobile: _____

Switchboard: _____

Signature: Date: _____

I agree to be bound by SMi's Terms and Conditions of Booking.

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Payment: If payment is not made at the time of booking, then an invoice will be issued and must be paid immediately and prior to the start of the event. If payment has not been received then credit card details will be requested and payment taken before entry to the event. Bookings within 7 days of an event require payment on booking.

Substitutions/Name Changes: If you are unable to attend you may nominate, in writing, another delegate to take your place at any time prior to the start of the event. Two or more delegates may not "share" a place at an event. Please make separate bookings for each delegate.

Cancellation: If you wish to cancel your attendance at an event and you are unable to send a substitute, then we will refund/credit 50% of the due fee less a £50 administration charge, providing that cancellation is made in writing and received at least 28 days prior to the start of the event. Regrettably cancellation after this time cannot be accepted.

Alterations: It may become necessary for us to make alterations to the content, speakers, timing, venue or date of the event compared to the advertised programme.

Data Protection: The SMi Group gathers personal data in accordance with the UK Data Protection Act 1998 and we may use this to contact you by telephone, fax, post or email to tell you about other products and services. Unless you tick here we may also share your data with third parties offering complementary products or services. If you have any queries or want to update any of the data that we hold then please contact our Database Manager databasemanager@smi-online.co.uk or visit our website www.smi-online.co.uk/updates quoting the URN as detailed above your address on the attached letter.

MASTERCLASS PRICE

I would like to attend: (Please tick)	Price	Total
MASTERCLASS FEE		
<input type="checkbox"/> Masterclass	£599.00 + VAT	£718.80

FUTURE MASTERCLASSES

I would be interested in attending a Masterclass on the following topic or area:

PAYMENT

Payment must be made to **SMi Group Ltd**, and received before the event, by one of the following methods quoting reference **MC397** and the **delegate's name**. **Bookings made within 7 days of the event require payment on booking, methods of payment are below. Please indicate method of payment.**

- UK BACS** Sort Code **300009**, Account **00936418**
- Wire Transfer** Lloyds TSB Bank plc, 39 Threadneedle Street, London, EC2R 8AU
Swift (BIC): **LOYDGB21013**, Account **00936418**
IBAN **GB48 LOYD 3000 0900 9364 18**
- Cheque** We can only accept Sterling cheques drawn on a UK bank.
- Credit Card** Visa MasterCard American Express

All credit card payments will be subject to standard credit card charges.

Card No:

Valid From / Expiry Date /

CVV Number 3 digit security on reverse of card, 4 digits for AMEX card

Cardholder's Name: _____

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VAT

VAT at 20% is charged on the attendance fees for all delegates.