

SYSTEMS ENGINEERING FOR DEFENCE SYMPOSIUM

Wednesday 15 February 2012

- 0830 – 0945 Registration and Coffee
- 0945 – 0955 Conference Administration
Michael Hewetson OBE, *Director Symposia at Shrivenham*
- 0955 – 1005 Welcome to the Defence Academy & Cranfield University School of Defence & Security
Brigadier Mark Lacey, *Head of Centre for Defence Acquisition & Technology, DA-CMT*
Professor Rob Witty, *Head Dept of Informatics and Systems Engineering, Cranfield University*

Session 1: Setting the Scene

Chair: Professor David Oxenham, Dstl

- 1005 – 1020 Introduction to Symposium themes
Rick Adcock, *Head of Centre for Systems Engineering, Cranfield University*
- 1020 – 1100 MOD Engineering Challenge
Dr Howard Mathers, *Director of Safety & Engineering, DE&S*
- 1100 – 1130 *Coffee*
- 1130 – 1200 Systems Approach to Engineering in Defence
Dr Chris Mace
- 1200 – 1230 Making Systems Engineering and Systems Thinking Count
Bob Barton, *Niteworks*
- 1230 – 1300 Discussion of Symposium Themes – all morning speakers
- 1300 – 1400 *Lunch*

Session 2: Strategic Context for Future Engineers and Engineering

Chair: Professor Mike Wilkinson, TD Niteworks

- 1400 – 1430 Strategic use of SOSA to Deliver the 2020 Future Force
Michael Morua, *Atkins Ltd*
- 1430 – 1500 Capability Management – Contrasting Views between MOD and a Major Private Service Provider
Sofia Ahlberg Pilfold, *ESoS Group, Loughborough University*
- 1500 – 1530 Enterprising Thinking Enabling a Paradigm Change
Jeremy Hobbs, *General Dynamics UK Ltd*
- 1530 – 1730 *Tea & Workshops*
- Delegates will be invited to join one of the workshops detailed overleaf
- 1730 – 1930 *Delegates transported to Hotels, change for dinner (lounge suits) and transported to Formal Dinner at the STEAM, the Museum of the Great Western Railway, Swindon*
- 1930 – 2000 *Pre-dinner drinks*
- 2000 – 2300 *Formal Dinner and, transport back to hotels*

Thursday 16 February 2012

0900 – 0930 *Coffee*

Session 3: Growing Engineering Competence

Chair: Professor Jon Holt, Atego Systems

0930 – 1000 MOD's Approach to Maintaining Systems Engineering Capability
Stephen Hyde, *Head of Systems Engineering and Integration, DE&S*

1000 – 1030 Lessons Learned from Implementing the EASE (Enterprise Architecture & Systems Engineering) Programme
GCHQ

1030 – 1100 Systems Skills Development - The Yellow Brick Road
Professor David Oxenham and **Simon Swales**, *Dstl*

1100 – 1130 *Coffee*

Session 4: The Educational Response

Chair: Chris Lamb, Jacobs Sula

1130 – 1200 Growing Systems Professionals
Professor John Davies, *University of Bristol*

1200 – 1230 Systems Engineering Education at the Defence Academy
Dr Emma Sparks, *Cranfield University*

1230 – 1330 Day 1 Workshop Feedback – Workshop Leads

1330 – 1430 *Lunch*

Session 5: Advanced Systems Engineering Techniques and Way Ahead

Chair: Peter Brook, Cranfield University

1430 – 1500 Composable Capability - Principles, Strategies and Methods for Capability Systems Engineering
Hillary Sillitto and **Paul Davies**, *Thales UK*

1500 – 1530 Cyber Security, Spectrum Management and Electronic Warfare – Joined Up Thinking for a Joined Up World
Dr Rob Morton and **Jason Wiltshire-Brown**, *Logica UK*

1530 – 1600 Final discussion and way ahead

1600 Tea and close

Workshop Themes

The four workshops on Day 1 will consider the following questions:

- 1) What is the role of Engineering in the Reformed Defence Enterprise?
- 2) How do we nurture and share Engineering Knowledge across Defence?
- 3) How does Systems Engineering support a Programme and Portfolio Management approach to Defence Capability?
- 4) What do the future (Systems) Engineering professionals look like and where do we get them from?

Delegates will be invited to join one of the four sessions. Each session will be chaired and facilitated by experts from the Defence Academy and relevant MoD teams. The session facilitators will prepare a short feedback brief for Day 2, and this will be used to help identify the way ahead and possible future work.