

Systems Engineering for Micro and Nano Technologies: A Practical Workshop

Tuesday 11th December

Systems Engineering Innovation Centre (SEIC), Loughborough

Provisional Agenda

9.30 **Registration & Coffee**

10.00 **Introduction and Welcome: Systems Engineering a holistic approach – whatever the requirement**

Dr Ayman El Fatatry, BAE Systems / Systems Engineering Innovation Centre

Morning Session Theme : Systems Engineering Techniques

Chair: *Ayman El Fatatry, BAE Systems / Systems Engineering Innovation Centre*

10.10 **What is Systems Engineering?**

John Hooper, Loughborough University

10.30 **Systems Engineering case studies and benefits**

Prof. Roy Kalawsky, Loughborough University

10.50 **Designs-for philosophies**

Prof. Andrew Richardson, NoE Patent-DfMM Co-ordinator, Lancaster University

11.10 **Coffee, networking and demonstrations**

11.30 **System modelling philosophies**

Dr Stoyan Stoyanov, The University of Greenwich

11.50 **Systems integration philosophies**

Dr Mark Begbie, iSLI

12.40 **Markets and trends**

William Sargent, Frost & Sullivan

12.50 **Buffet lunch, networking and demonstrations**

Afternoon Session Theme: Systems Engineering Tools

Chair: *Dr Drew Murray, CEMMNT Hub Ltd*

1.50 **Processes, tools and technologies**

Stuart Burgess & John Hooper, Loughborough University

2.10 **MNT design methodologies**

Christian Mahler, Coventor

2.30 **Requirements management**

Hazel Woodcock, Telelogic

2.50 **Predicting disruptive and emerging technologies**

Alison Desimone, QinetiQ

3.10 **Technology Roadmaps**

Paul Palmer, Director EEP KTN, Loughborough University

3.30 **The International Council on Systems Engineering**

Doug Cowper, President elect for INCOSE UK

3.50 **Coffee & demonstrations**

4.30 **Close**