



## INCOSE UK's Annual Systems Engineering Conference 2019

Ilminster, England (May 23, 2019) - INCOSE UK is celebrating 25 years as the home for Systems Engineering in the United Kingdom, and so has decided to host its Annual Systems Engineering Conference at the Royal Armouries Museum in Leeds on 19 and 20 November 2019.

Rather than looking backwards over the last 25 years the INCOSE UK Council has decided this year's theme should be about looking forward and so has gone with



The Royal Armouries Museum  
in Leeds

### **“Celebrating the Future of Systems Engineering”**

Inspiring the Next Generation

Advancing the Practices

Pushing the Boundaries

Kirsty Akroyd-Wallis, INCOSE UK President, said *“I am pleased to announce that the M’Pherson Lecture on day one will be delivered by Garry Roedler, Kerry Lunney and Alan Harding, the President, President-Elect and Immediate-Past President of INCOSE respectively. Professor Emma Sparks Director of Programme Portfolio Delivery & Deputy Director Education Head of Centre for Systems Engineering, Cranfield Defence and Security, Cranfield University will deliver the Arnold Lecture on day two.”*

INCOSE UK is looking forward to welcoming systems engineers to this year's conference and being an enabler for sharing of knowledge, good practice and creating networking opportunities.

The ASEC 2019 event website is now live and contains important information about the event: [www.asec2019.org.uk](http://www.asec2019.org.uk) . The ASEC 2019 event hashtag is **#ASEC2019UK** and can be used and followed across Twitter and LinkedIn.

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## **Note to Editors:**

### **INCOSE UK Ltd**

The UK Chapter of the International Council on Systems Engineering (INCOSE), with over 1,000 individual and over 30 corporate members, exists primarily to serve UK-specific needs and is a key chapter within INCOSE. It has strong links with other UK institutions and plays a prominent role in both the domestic and the international scenes. It holds one conference and one training day each year, has active regional, working and special interest groups and publishes a variety of books, guides and other products tailored for UK members. Despite its focus on UK-specific needs, the UK Chapter attracts members from territories around the globe. The 'flavour' of Systems Engineering most prevalent in the UK has developed into an open and inclusive practice that facilitates the application of Systems Thinking and Systems Engineering principles in domains outside of the traditional domains of defence and aerospace. In recent years, the membership of INCOSE UK has widened significantly from its roots, expanding to include domains such as: automotive, rail, energy, civil engineering, space, medicine, and security.

For more information, please visit [www.incoseonline.org.uk](http://www.incoseonline.org.uk).

### **Annual Systems Engineering Conference (ASEC)**

The Annual Systems Engineering Conference (ASEC) is INCOSE UK's annual flagship event that brings together an extensive range of professionals from an array of backgrounds, with the common interest of building upon their Systems Engineering knowledge and sharing ideas with their peers. INCOSE UK hosted its first annual conference in 2010, with the aim of creating the premium annual Systems Engineering conference in the UK. Now in its 10th year, the ASEC has grown to become the UK's foremost Systems Engineering conference.

### **The M'Pherson Lecture**

Presented at the ASEC in memory of Philip M'Pherson who was a practitioner, educator and intellectual leader in Systems Engineering for over 45 years and an early and inspirational member of the UK Chapter of INCOSE. At City University in London, he set up the Department of Systems Science in 1972 – probably the first "Systems Professor" in Europe. His knowledge, passion and tenacity led the department into a position of intellectual leadership in applying Systems Thinking.

### **The Arnold Lecture**

Presented at the ASEC in memory of Stuart Arnold who had a significant impact on the practice of Systems Engineering in the UK. His success was due to his almost endless patience, razor sharp intellect and naturally collaborative approach. Along with a small number of other UK systems engineers, Stuart was responsible for building the credibility of the UK's Systems Engineering community on the international stage. Now, when a UK voice speaks up in a technical committee, INCOSE meeting, or project review, we are benefiting from Stuart's influence.



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## ASEC 2019 - Keynote Speakers Biographies

### Garry Roedler

Garry Roedler is a Senior Fellow and the Engineering Outreach Program Manager for Lockheed Martin and the President of the International Council on Systems Engineering (INCOSE). He has over 33 years of systems engineering (SE) experience that spans the full life cycle and includes technical leadership roles in both programs and business functions. He is also an INCOSE Fellow, holds systems engineering certification at the Expert Systems Engineering Professional (ESEP) level, and received the INCOSE Founders Award. Garry has held key leadership roles in several industry associations and standards development organizations, including editor of ISO/IEC/IEEE 15288, Systems Life Cycle Processes and several other standards; and key editor roles for the Systems Engineering Body of Knowledge (SEBoK) and the INCOSE Systems Engineering Handbook. This unique set of roles has enabled Garry to influence the technical co-evolution and consistency of these key Systems Engineering and System of Systems resources.

### Kerry Lunney

Ms Kerry Lunney has extensive experience developing and delivering large system solutions, including design, software development, infrastructure implementation, hardware deployments, integration, sell-off, training and on-going support. She has worked in various industries including ICT, Gaming, Financial, Transport, Aerospace and Defence, in Australia, Asia and USA. The systems delivered include combat systems, mission systems, communication systems, road and rail ITs, flight simulators, security systems, vehicle electronic systems, gaming systems and ICT foundation systems.

Kerry is Country Engineering Director and Chief Engineer in Thales Australia. In this role she provides technical leadership and governance on bids and projects, delivers technical training programs, and participates on a number of Technical Boards and Communities of Thales. Recent roles include Chief Systems Engineer, Solutions Architect and Design Authority.

Kerry is a member of IEEE, a Fellow Member of Engineers Australia with the status of Engineering Executive and Chartered Professional Engineer, and holds the Expert Systems Engineering Professional (ESEP) qualification from the International Council on Systems Engineering (INCOSE).

In addition to her "day job", Kerry is the INCOSE President-Elect. She has also been a past-INCOSE Sector Director for Asia-Oceania, a past-National President of the Systems Engineering Society of Australia (SESA), the Australian Chapter of INCOSE, and has held various roles on conference and events committees and University program advisory boards throughout her career.

### **Alan Harding**

Alan Harding is the immediate past-President of INCOSE, and is a systems engineer with over thirty years' experience. He is the Head of Information Systems Engineering with the BAE Systems - Air business in the UK, a Chartered Engineer, and a Fellow of the IET. Alan is a past president of INCOSE UK.

### **Professor Emma Sparks**

Prof Emma Sparks is the Director of Programme Portfolio Delivery, Deputy Director of Education and Head of the centre for Systems Engineering at Cranfield University. Responsible for strategic direction and management of the taught course portfolio for Cranfield Defence and Security as well as delivery of the Systems Engineering portfolio across teaching, research and consultancy. Emma is a Systems Engineer specialising in human systems, systems thinking, enterprise architecture and Human Factors Integration. She has a doctorate and master's in Systems Engineering for Defence and a Post Graduate Certificate in Learning, Teaching and Assessment for Higher Education.

Before joining Cranfield University at Shrivenham, Emma worked for five years as a research scientist within the Defence Clothing and Textiles Agency and latterly as Technical Lead for future soldier systems at the Defence Science and Technology Laboratory. Emma is internationally published and has worked extensively with overseas organisations, most notably the Defence Science and Technology Laboratory in Adelaide. In more recent years Emma has helped pioneer the first Level 7 Systems Engineering Apprenticeship with the Defence Growth Partnership. This reflects her passion for innovation in teaching practice and her desire to broaden engagement and accessibility in STEM disciplines. She is a member of INCOSE and the IET and was identified as one of the Top 50 women in Engineering in 2018.