APTA SE + INCOSE TWG + INCOSE UK RIG
2021 Joint Monthly Membership Meeting & Webinar Series

Thursday, April 15, 2021
2:45pm – 3:45pm ET, 7:45pm – 8:45pm UK Time, 8:45pm – 9:45pm European Time
Preceded by UK RIG AGM at 2:30pm ET, 7:30 pm UK Time, 8:30 pm European Time

Prior to the Presentation, the UK RIG will hold a 15-minute Annual General Meeting. This session is held once a year to elect a new committee and look at future direction for the year. All those with an interest in the UK RIG are welcome.

Presentation - Introducing Business Change – Implementing MBSE into Your Organisation

The use of Model-Based Systems Engineering (MBSE) as an approach to realising successful Systems Engineering is becoming more prevalent as time goes on, leading to an anticipation that the INCOSE 2025 Vision that all Systems Engineering will be model based is looking increasingly likely.

Whilst the theory and practice of MBSE is becoming more mature, one of the biggest obstacles in realising the full benefits of an MBSE approach is how it is implemented in an organisation.

This talk is about implementing MBSE in an organisation and draws on the authors' decades of experience applying and deploying MBSE in companies of all sizes and introduces the Trinity approach to MBSE implementation. The three main considerations of implementation that form the heart of the Trinity approach are introduced as: reason, capability and evolution.

- The reason behind wanting to implement MBSE is discussed by considering the context of the implementation. The reason, or the 'why' of MBSE is crucial and will drive all of our implementation activities.
- The key aspects of MBSE that must be considered to establish MBSE capability are introduced in the form of the MBSE-in-a-slide diagram. This introduces the importance of the approach, the system and the notation. This is then expanded to include tools and best practice. This allows us to identify the capability of an organisation in terms of their current MBSE activities and their aspirations.
- Once the capability has been covered, the concept of the evolution of MBSE is introduced as comprising five important stages, each of which has a number of outcomes associated with it. The organisation's current stage and desired stage, based on the reason and capability considerations, are identified. The transition from one stage to another is then covered by identifying typical actions that must be undertaken when evolving MBSE from the starting stage to the final desired stage.

These three aspects come together to form the Trinity of MBSE implementation.

We will also describe some of the techniques that may be used to achieve an understanding of each, such as RAVEnS and TeamStorming. Examples in Transportation will be provided.

Presenters:

Jon Holt PhD, BEng, CEng FIET, FBCS CITP, MINCOSE
Director

Professor Jon Holt is a leading figure in the world of systems engineering and gained his PhD from Swansea in 1994. Jon is a Director for Scarecrow Consultants Ltd and has been working in the field of systems modelling for the last 20 years. Jon is an international award-winning public speaker and author. He is the author of seventeen books in the field of applied Model-based Systems Engineering. Jon is a Director and Principal Consultant for Scarecrow Consultants Limited, works in many industries and has applied his work in many disciplines. He is also a Fellow of both the IET and the BCS. Jon also holds a Chair in Systems Engineering at the UK Defence Academy and is the Technical Director of INCOSE UK.

Simon Perry BSc, PGC IS, MIET, MINCOSE
Director

Simon Perry holds Bachelors degrees from both the University of Leeds and the Open University. Since gaining his degree in Mathematics in 1986 he has spent nearly 30 years working in all aspects of software and systems engineering. Simon often speaks at systems engineering conferences and is the co-author of eleven books in the field of applied Model-based Systems Engineering. Simon is a Director and Principal Consultant for Scarecrow Consultants Limited, providing consultancy, training, and conducting research in the application of systems engineering. He works in industry, government and academia and has applied his work across many disciplines in a wide range of industries including defence, the nuclear industry, timber engineering, finance, and train manufacture. He is a Member of the IET and INCOSE.

Upcoming 2021 Joint Monthly Membership Meeting & Webinar Dates

Feb	Mar	Apr	May	Jun	Jul	Aug
18	18	15	20	17	15	19

Joining the Webinar

zoom

Please refer to the meeting notice on the next page for call-in information.

INCOSE TechOps-Applications is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting
https://incose-org.zoom.us/j/91343796660?pwd=SE5mRFBsUGVldGMwL3FWZGRTZDJBdz09

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