Welcome

As we reach the end of 2017, preparations are well under way for next year’s events. If you would like to present at the 2018 INCOSE UK Training Day, then you can find details on page 5.

Preceding the Winter Preview’s full event report, you can read a round up of ASEC 2017, from page 2. We have also announced this year’s top presentations and poster.

Next year will also see the introduction of sweeping legislation, which imposes a number of new checks and controls on the use of personal data. INCOSE UK is already in the process of ensuring compliance with this, and you can find out about this will affect you on page 4.

Finally have also included a reminder regarding the Don’t Panic! series - we are looking to expand this and are eager to hear from any subject matter experts who would like to submit a proposal. If this sounds like you, then you can find further details on page 8.

We would like to wish all of our members a very Happy Christmas, and look forward to continuing to work with you all throughout 2018.
Ian Gibson, outgoing INCOSE UK Events Director

ASEC 2017 – Signing off at The Slate

On a personal note, ASEC 2017 marked the end of a six-year term as the INCOSE UK Events Director, and I was determined to live up to the conference theme of “Pushing the Boundaries” in my final year in charge. I was pleased to see a good balance of papers, posters, and breakout sessions this year, covering a wide range of contemporary topics (my personal highlights included automotive, healthcare, MBSE, acquisition processes, career progression, and a fantastic tale of applying “model-based steam engineering” to the renovation of the Crofton beam engine).

I was also delighted that Rose Dixon, Linda Arnold and Robert Arnold were able to attend the inaugural M‘Pherson and Arnold keynote lectures, delivered by Gordon Masterton and Paul Schreinemakers – setting a high bar for others to follow, and that they were also able to attend the conference dinner as guests of honour, and witness the lightning-inspired madness of Rhys Phillips in his after-dinner presentation.

Finally, I would like to thank the rest of the Events Team, particularly Jon Holt for raising the technical standard of the conference over the last few years, and Emma Jane Taylor for fanning the flames of my good ideas, and carefully pouring water on the less-good ones over the years. It has been a privilege to work with both of them.

Top presentations and winning poster

Over the course of the event, we asked for all delegates to provide feedback on all of the presentations that they attended. We have then assessed the feedback forms and this year’s top presentations are listed below - as voted for by you!

We are also delighted to have had representatives from Dyson attend once again, to select the winner of this year’s Academic Research Poster Showcase.

Top presentations

1st

Reading Between the Lines - Developing the MOD Acquisition Requirements and Acceptance Tube Map

Ian Gibson, Andy Price, Wg Cdr Ian Blake, and Sam Williams

Walking the Walk - Systems Engineering INCOSE UK

Professor Jon Holt, Ivan Mactaggart

Not Everyone Wants to be a Chief Systems Engineer

Kirsty Akroyd-Wallis, Samuel Lewis and Anne Robinson

2nd

Using Graph-Theoretic Analytics to Support System Architecting Decisions

Matthew Potts, Pia Sartor, Angus Johnson and Seth Bullock

3rd

Using Graph-Theoretic Analytics to Support System Architecting Decisions

Matthew Potts, Pia Sartor, Angus Johnson and Seth Bullock
This year’s Annual Systems Engineering Conference was held at the new Warwick Slate centre at Warwick University and was attended by over 170 people on each of the two days.

Apart from the usual selection of papers, tutorials, panel sessions and the poster competition, this year we also experimented with a few new items.

We have now dedicated the two keynotes to the memory of two of the grandfathers of Systems Engineering; Philip McPherson and Stuart Arnold, and we were honoured to have representation from both families for these inaugural lectures.

We also held a closed session, known as the Systems Summit, where we had 16 luminaries of the current UK Engineering world (not necessarily systems engineers) and ran a TeamStorming session to ask the question ‘what is the future of Systems Engineering in the UK?’ This was important as it the first time that we have formally invited people from outside the INCOSE UK community for their thoughts and observations. The session was very well received and initial feedback was presented to the conference during closing remarks, with a more in-depth feedback presented to the Joint UKAB Council meeting on the following day. A report will follow and will be available to all members.

Couple all this with an invited talk on Systems Engineering the oldest working Steam Beam engine in the world and a superb after-dinner speech by Rhys ‘Lightning’ Phillips, and we had a truly memorable couple of days.

We look forwards to seeing all of you (and more) again next year!

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**Presentations, papers and posters are now available**

All of the materials that we have been given permission to share have now been uploaded to the INCOSE UK website. We will be adding any further papers and the posters in due course, so please do check back if anything that you are looking for is not currently appearing.

If you have any queries regarding any of the content, please do contact us at events@incoseonline.org.uk.
Getting Ready for GDPR

How INCOSE UK will be managing your data, and what it means for you

The General Data Protection Regulation (GDPR) will have a marked impact on INCOSE UK, including everyone within the Society who is involved in gathering, storing, and processing personal data. This includes positions in INCOSE UK such as group chairs and admins, certification reviewers, and professional registration reviewers. This new legislation is part of a legal framework that is being implemented by the European Union (EU) and will come into effect from 25th May 2018. It is also envisioned that this framework will be enshrined in UK law once we have left the EU. Its primary aim is to ensure that individuals have sufficient protection of and control over their personal information in an increasingly digital age.

The new legislation imposes stringent requirements regarding the collection, usage and storage of personal data, which is considered to be anything that can identify a specific individual, such as names or contact details.

One of the major developments that results from this framework is the requirement for specific consent to be secured in order to process personal information. All new INCOSE UK members will have to provide this consent as part of their application, while existing members will be required to provide this consent during the renewal process, in order for us to be able to maintain their membership. If you took out a membership as part of your ASEC 2017 booking, then you will already have provided your consent.

Over the next few months we will be issuing a series of reminders to existing members, to revisit their profiles on the INCOSE UK website and confirm that we have consent to continue processing their data. If we are not able to secure your consent during this process, then it may result in INCOSE UK being unable to continue your membership.

Some of the specific rights that will be guaranteed to individuals under this legislation are:

- **Right to Access.** You will have the right to obtain confirmation from the data controller (for example, INCOSE UK) as to whether your data is being processed, where and for what purpose. You will also be entitled to receive an electronic copy of all your personal data on request.

- **Data Portability.** You will have the right to receive data that you have previously provided, and transmit it to another controller.

- **Right to be Forgotten.** You have the right to request for your data to be erased and for any further dissemination to be ceased. The intention is for it to be as easy for individuals to withdraw consent, as it is to provide it.

INCOSE UK will be working over the coming months to implement various changes to our systems, in order to ensure that we are compliant with the new legislation. Please keep an eye on our various communications in the near future, as it may be that we will need you to provide us with additional information so that we can continue to administer your membership.

It is important to be aware that we are required to share certain pieces of your data with INCOSE International (based in the USA), as part of administering your INCOSE UK membership. We will only share information that is relevant in this respect and any data that we transmit will be handled in accordance with GDPR. However, once received by INCOSE International it is no longer under our control, and is subject to their own data handling policy.

If you would like to find out more about the GDPR, then you can do so via the Information Commissioner’s Office here. If you have any queries or concerns about the data that we currently hold for you, then you can contact us via membership@incoseonline.org.uk or at 01460 298 217.
INCOSE UK are beginning the preparations for the 2018 Training Day and are inviting individuals and organisations to deliver full day training sessions on 6th June. The proposed venue is Lydiard House near Swindon and we hope to confirm this in the new year. To cover costs, an honorarium is payable to all presenters.

The Training Day provides an opportunity for INCOSE members to explore new topics and extend their knowledge of Systems Engineering practice. The aim is for each session to cover either an introduction to a subject (e.g. requirements for MBSE) or a more detailed insight into a specific topic (e.g. running a successful Requirements Review).

The summary of deadlines is as follows:

- **Expression of interest / enquiries** – Now
- **Full proposal** – 22nd January 2018
- **Confirmation of selection** – by 5th February 2018
- **Registration open** – 26th February 2018

The documents linked below provide a full breakdown of deadlines, guidelines, and suggested topics to help when considering and submitting a proposal, as well as the associated terms and conditions. Please send proposals and queries to events@incoseonline.org.uk.

Please [click here for the 'Call for Proposals'] and [click here for the 'Terms and Conditions'].
INCOSE International Elections

The UK Chapter would like to offer our congratulations to all of the incoming INCOSE International Council members, following this year’s elections.

These individuals will join the INCOSE Board of Directors on Saturday, 20 January 2018 when they are installed during the opening plenary of the 2018 International Workshop in Jacksonville, Florida.

The winning candidates (and their terms of office) are:

- **President-Elect**: Kerry Lunney (2 years, before becoming INCOSE President for 2020 and 2021)
- **Treasurer**: René Oosthuizen (2 years)
- **Chief Information Officer**: Bill Chown (3 years)
- **Director for Outreach**: Gina Guillaume-Joseph (3 years)
- **Director for Asia-Oceania**: Serge Landry (3 years)

We wish all of the successful candidates the best of luck and look forward to working with them over the next few years!
INCOSE is a volunteer organisation that is designed with the membership in mind. As the UK chapter continues to grow both in numbers and in ambition, we want to gain a better insight into how INCOSE UK works for you, and in which areas you would like to see growth and change. This survey asks for your opinions on INCOSE UK, and how engaged you feel as a member: we want to know your thoughts.

We are aiming to release this survey over the next few days, with it remaining open into the new year. It will be greatly appreciated if you could take some time to complete this survey membership.

We will send out a link to all members via email when the survey is available - you should also expect to see a pop up notification when you log in to the Society website, which will act as a reminder.

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**International Symposium 2018 - Call for Abstracts**

The call to submit abstracts for presentations at next year’s International Symposium (IS) in Washington DC is now open. The theme for the INCOSE International Symposium 2018 is ‘Delivering Systems in the Age of Globalization’.

The key dates to adhere to are:

- **Submission deadline**: 8th January 2018
- **Notification of acceptance and reviewer comments**: 16th February 2018
- **Final presentation**: As directed in the notice of acceptance

You can find out full details about making a submission, in the original call on the INCOSE International website [here](#).
INCOSE UK already has a good track record publishing Z-guides, Omega-guides, posters and white papers, and INCOSE UK has published its first formal books, 'Think Engineer' and the first book in the 'Don't Panic!' series. Recently, there has been a growing number of people asking for more of our thorough, short, and easily-digestible guides. This has been the driving market need behind the 'Don’t Panic! Guides.

The first guide published was 'Don’t Panic! The Absolute Beginner’s Guide to Model-Based Systems Engineering', written by established MBSE authors Jon Holt and Simon Perry, but we would like to add more to the series.

'Don’t Panic! The Absolute Beginner’s Guide to Model-based Systems Engineering' This book is intended to be used as a primer for MBSE for people who are new to the area. With this in mind, there are a few key aims that the book addresses:

- To nip in the bud bad practice and common pitfalls that we have learned the hard way
- To dispel some of the many myths and misconceptions associated with MBSE
- To spell out some of the fundamental concepts that must be understood
- To alleviate people's fears concerning MBSE and its adoption in your business
- To highlight some of the many benefits (some obvious, but many not-so-obvious) associated with MBSE

Style of the book
Each title in the series will focus on a single area of Systems Engineering, assume no prior knowledge on behalf of the reader, and present the subject matter in an engaging and simple way.

In order to allay reader's initial fears about the subject matter, there are several friendly icons used throughout the books that highlight specific areas of interest, including:

Pitfall Common traps to fall into and mistakes that are easy to make.

Scary An intimidating, worrying or scary aspect of Systems Engineering.

Myth Common misconceptions, fallacies and downright lies

Benefit An aspect that will add value to your Systems Engineering activities.

Key concept A really important concept that readers need to know and understand to perform their work successfully.

This theme continues throughout the book and will also run through the whole series of 'Don't Panic!' guides.

The 'Don't Panic!' Series
Each book will be written by established experts and authors on specific fields of Systems Engineering. All proposed titles will also be put through the INCOSE UK peer review process to ensure that the subject matter is relevant, that the content and style is correct and accurate, and that the book maintains the brand of the 'Don’t Panic!' series.

If you are interested in writing a 'Don’t Panic!' guide, please get in touch with the Secretariat and request an application form, via publications@incoseonline.org.uk. If you would like to discuss an idea before applying, then please contact the INCOSE UK Technical Director, Jon Holt, via technical-director@incoseonline.org.uk.

Each book in the series will be published, marketed and sold through INCOSE UK, with INCOSE UK owning the IPR to the book. Each author will receive an attractive and competitive royalty for every copy sold.

Helping Projects Succeed...
Internationally for over 25 years.
Please visit our website for full course details, including learning objectives, course outlines and course registration:
www.ppi-int.com

DON’T PANIC!
An honest, straight-forward, and simple introduction to the world of model-based systems engineering that anyone can understand.
This absolute beginner’s guide will help you to start to implement model-based systems engineering in your future projects.

The first book in the “Don’t Panic!” series is available on the INCOSE UK Web Store now.
# Events Calendar

See what’s coming up in your area

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<tr>
<th>Date</th>
<th>Details</th>
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<tr>
<td>20 - 23 January 2018</td>
<td><strong>INCOSE International Workshop 2018</strong></td>
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<td>This year’s International Workshop will be taking place at the Hyatt</td>
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<td>Regency Jacksonville Riverfront, Jacksonville, USA.</td>
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<td></td>
<td>You can find out more via the event website here.</td>
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<tr>
<td>6 June 2018</td>
<td><strong>INCOSE UK Training Day 2018</strong></td>
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<td>The proposed venue for the 2018 Training Day is Lydiard House, near</td>
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<td>Swindon. We hope to be able to confirm this early in the new year.</td>
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<td>If you would like to run a training course, please check earlier in</td>
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<td>this newsletter for details.</td>
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<tr>
<td>7 - 12 July 2018</td>
<td><strong>INCOSE International Symposium 2018</strong></td>
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<td>Next year’s International Symposium will be located in Washington DC</td>
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<td>at the Grand Hyatt Hotel.</td>
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<td>Further details will be added on the <a href="#">event website</a> over coming</td>
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<td>November 2018</td>
<td><strong>INCOSE UK Annual Systems Engineering Conference 2018</strong></td>
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<td>Following the success of ASEC 2017 at Warwick Conferences, the UK’s</td>
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<td>premier SE conference will be making a return in November 2018.</td>
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<td>Keep an eye on our communications channels for further details in due</td>
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All of the events shown above are correct as at the time of publishing - to keep an eye on all of the upcoming INCOSE UK events, please visit the Events Calendar on the INCOSE UK website.

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**INCOSE UK** is the UK Chapter of the International Council on Systems Engineering.

The ePreview newsletter is provided free of charge to our members, on an ad hoc basis. The aim of this publication is to keep our members informed of developments within the UK Chapter and to shine a spotlight on our regular events, as well as promote and encourage participation.

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