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<th>Page 6</th>
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<tbody>
<tr>
<td>Message from the President</td>
<td>INCOSE UK Council</td>
<td>INCOSE UK Fee Update</td>
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<tr>
<td>Meet the Council</td>
<td>2022 Highlights</td>
<td>ASEC 2022 Highlights, review and awards.</td>
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<tr>
<td>INCOSE UK Awards</td>
<td>Meet the Author</td>
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<th>Page 23-24</th>
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<tbody>
<tr>
<td>Professional Registration, Certification and Development</td>
<td>INCOSE UK Early Careers Forum</td>
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<th>Page 27</th>
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<tbody>
<tr>
<td>INCOSE UK Advisory Board</td>
<td>INCOSE News</td>
<td>INCOSE UK Calendar</td>
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You might say that 2022 has been a year where things have got back to a more “normal” way of doing things. Yes, COVID is still with us, but thanks to the vaccine roll-out we are now living with it and getting on with our lives. That is true for INCOSE UK where we have seen our groups emerging from the virtual world and meeting in person again. ASEC was testament to our desire to get out and meet with our peers where 200 attendees met at the Crowne Plaza in Newcastle.

As I start my term as President, I have a few thank-yous. Firstly, to Kirsty Akroyd-Wallis who has stepped down from the Council on completing her time as Immediate Past President. Under her guidance and energy INCOSE UK became a licensed Professional Engineering Institution (PEI) able to register qualified members as Engineering Technicians (EngTech), Incorporated Engineers (IEng) and Chartered Engineers (CEng). Since gaining our licence we have registered 56 Chartered Engineers and four Incorporated Engineers. And to Ian Gibson, my predecessor, who is now Immediate Past President. I look forward to his continuing support to Council and his wise council. His vision was to enhance our status as a PEI by rebranding INCOSE UK as the Institute for Systems Engineering (IfSE). Having done much groundwork, I hope that we can start the formal process of becoming IfSE before too long. More on that later.

Welcome to Andrew Pemberton who joins the Council as President Elect and starts his own six-year journey through the presidential roles. I look forward to working with him. Also, congratulations to Jon Holt who has been re-elected as Technical Director. Under his tenure INCOSE UK has made significant strides expanding our training and publications. Jon has also been appointed as an INCOSE Fellow and joins an elite group of Systems Engineers from around the world. A great honour indeed!

Let’s start at the end of the year with ASEC. As I mentioned, we had 200 attendees in Newcastle who were privileged to hear from a truly inspirational keynote speaker, Laura Doughty, who gave us a fascinating insight into why stakeholder engagement and the ability to foster robust relationships with multiple parties is so important in delivering successful projects. There was an excellent range of subjects presented over the two days covering many industries. In his Best Paper Stuart Jobbins challenged the Agile Charter in its application to Systems Engineering and gave us all much to think about!

Outside the plenary sessions the workshops and tutorials were all very well attended, and the Early Careers Forum (ECF) held a successful “Fringe Event” for their members.

Two other events worthy of mention are the Inclusion and Diversity Event held at Bristol Zoo and the
Systems Engineering in Transportation event held in partnership with the IET. The first included a mixture of talks and workshops covering various facets of ED&I and what should be done to improve matters. The Transportation event comprised two online sessions covering current and future challenges for Systems Engineering in the Transport sector.

Going back to professional registration, our ongoing relationship with the Institute of Explosives Engineers in the Joint Review Board continues to flourish, and I am pleased to announce that we expect our licence from the Engineering Council to be extended by a further two years, putting in line with the standard five-review cycle. I hope that in two-years’ time we will be granted a full five-year licence. Thanks to all those involved in running the professional registration service.

Of course, we continue to offer INCOSE Certification (ASEP, CSEP and ESEP) as well and there are now over 250 INCOSE UK members holding a Certification. On that note, congratulations to Ian Hobson who became an ESEP during 2022. Well done, Ian!

Our Publications have continued to be successful. The ‘Don’t Panic!’ series continues to be popular and has expanded with the addition of Simon Wright’s volume on Services and Service Systems. The Don’t Panic!’ guides and the ‘Advanced Applications’ are being sold in 16 countries and some are being translated into Japanese and Dutch! Enterprise licences are now available for these allowing businesses to have bulk access to e-book versions for use by their employees. Those who attended ASEC were treated to the new animated version of Think Engineer.

Turning to our two primary committees, the Advisory Board (UKAB) and the ECF. The UKAB has been very active during the year and has welcomed four new members – Elbit Systems UK; TP Group; UKAEA and Sellafield. They have launched a focus group to look at the threats to UK industry Systems Engineering skills base and how INCOSE UK can influence the pipeline of future entrants into the profession. The ECF has been revitalised this year and has grown to over 100 members sourced on by the energy and enthusiasm of the leadership group. Their Systems Engineering Handbook event series, held throughout 2022, proved extremely popular with guest speakers reflecting on the application of the System Engineering processes leading to 14 different ways to explain Systems Engineering to your friends and family!
Returning to IfSE, I am pleased to say that much of the preparatory work has been completed. We have approval in principle from Companies House to use the protected term ‘Institute’ and expect to resolve a couple of issues with the Engineering Council very soon. With that in mind, I hope that we will be able to put forward a Special Resolution to you, our members, for you to consider very soon. We will then hold an Extraordinary General Meeting at which you will be able to cast your vote. Although this meeting has to be in person, we will set up a mechanism for those who cannot attend to appoint a proxy to cast their vote at the meeting. For the Special Resolution to pass we must have at least 10% of the membership vote and of those that vote 75% need to be in favour.

So, please look out for details of the Special Resolution and the mechanism for proxy voting. If successful, we will be able to complete the metamorphosis of INCOSE UK into IfSE and reap the additional benefits that will bring!

So, exciting times are ahead in 2023!

Malcolm Thomas
INCOSE UK President

The Path to IfSE
A full update on the path to IfSE will feature next issues of ePreview; as mentioned above here are the key points.

✓ Approval in principle from Companies House to use the protected term “Institute”

☐ Special Resolution vote at an Extraordinary Meeting

☐ Submission to Companies House if vote is passed

☐ Companies House approves the name change

☐ INCOSE UK makes the essential changes required

INCOSE UK would like to wish all our members and volunteers a Merry Christmas and a Happy New Year
The INCOSE UK Council is pleased to announce the appointment of Malcolm Thomas as President of INCOSE UK, with Andrew Pemberton as President-Elect, following this year’s election. Prof. Jon Holt was re-elected as the Technical Director of INCOSE UK, unopposed.

At the Annual General Meeting, Ian Gibson (the outgoing INCOSE UK President) took the opportunity to wish Malcolm Thomas every success as he takes over as President. Ian also presented Kirsty Akroyd-Wallis, the outgoing Immediate Past President, with an award. Malcolm noted that during Ian’s Presidency, INCOSE UK had achieved several milestones as it continues to evolve into the “go to” Professional Engineering Institute for Systems Engineering in the UK and thanked him for driving these through; he also noted that Ian had successfully steered INCOSE UK through the COVID Pandemic and back to the “new normal”.

Malcolm said: “As I step into the role of President, I am excited to be continuing the Council’s excellent work in establishing INCOSE UK as an Institute with a growing membership and a broader involvement in the wider UK Engineering community.”

New President Elect, Andrew Pemberton, stated: “I am elated to be taking on this role in the organisation that is leading the way for systems engineering across the UK, it is an exciting time to be involved and we are in a great position to meet the challenges in a world of ever-increasing complexity.”

Prof. Jon Holt, Technical Director said: “I am thrilled to be re-elected as the Technical Director, my intent is to complete the implementation of a range of planned technical services, which started with the Endorsed Training Provider Scheme, and continue to develop our products to help systems engineers, before handing over to someone else at the end of my tenure.”

Following the recent INCOSE UK elections, the INCOSE UK council is as follows. Full details can be found on the INCOSE UK website.

- President: Malcolm Thomas
- President Elect: Andrew Pemberton
- Immediate Past President: Ian Gibson
- Finance Director: Philip Savvides
- Technical Director: Jon Holt
- PD Director: Steven Turner
- Outreach Director: Stuart Jobbins
- Early Careers Forum Chair: Amelia Jephson
- UK Advisory Board Chair: Derek Price
- UK Advisory Board Deputy Chair: Matthew
- Company Secretary: Emma Jane Taylor
- Head of Secretariat: Emma Jane Taylor
With rising costs that are affecting us all, INCOSE UK has seen an increase to our basic operating costs. To maintain services to our members and look to the future, it is now necessary to increase our fees across the board in line with inflation. We have agreed to leave the student membership rates unchanged.

The changes to Membership Fees detailed below will take effect on Friday 13th January 2023.

<table>
<thead>
<tr>
<th>INCOSE UK Membership Fees</th>
<th>2023</th>
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<tbody>
<tr>
<td>Standard Member</td>
<td>£160.00</td>
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<tr>
<td>Standard Member 3-year</td>
<td>£444.00</td>
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<tr>
<td>Standard Member 5-year</td>
<td>£683.00</td>
</tr>
<tr>
<td>Professional Reg Member CEng</td>
<td>£248.00</td>
</tr>
<tr>
<td>Professional Reg Member IEng</td>
<td>£248.00</td>
</tr>
<tr>
<td>Professional Reg Member EngTech</td>
<td>£220.00</td>
</tr>
<tr>
<td>Senior</td>
<td>£94.00</td>
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<tr>
<td>Senior 3-year</td>
<td>£224.00</td>
</tr>
<tr>
<td>Senior 5-year</td>
<td>£355.00</td>
</tr>
<tr>
<td>Student Member</td>
<td>£45.00</td>
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In addition, the following changes to INCOSE UK Professional Development fees will take effect on Friday 27th January 2023.

<table>
<thead>
<tr>
<th>Professional Registration Application Fees</th>
<th>2023</th>
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<tbody>
<tr>
<td>CEng Application Fee</td>
<td>£244.00</td>
</tr>
<tr>
<td>IEng Application</td>
<td>£244.00</td>
</tr>
<tr>
<td>EngTech Application Fee</td>
<td>£111.00</td>
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<tr>
<td>Fee upon Registration CEng</td>
<td>£145.00</td>
</tr>
<tr>
<td>Fee upon Registration IEng</td>
<td>£136.00</td>
</tr>
<tr>
<td>Fee upon Registration EngTech</td>
<td>£108.00</td>
</tr>
<tr>
<td>CEng Transfer Application Fee</td>
<td>£83.00</td>
</tr>
<tr>
<td>IEng Transfer Application Fee</td>
<td>£83.00</td>
</tr>
<tr>
<td>EngTech Transfer Application Fee</td>
<td>£83.00</td>
</tr>
<tr>
<td>CEng Transfer Acceptance Fee</td>
<td>£55.00</td>
</tr>
<tr>
<td>IEng Transfer Acceptance Fee</td>
<td>£55.00</td>
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<tr>
<td>EngTech Transfer Acceptance Fee</td>
<td>£55.00</td>
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<tr>
<th>Certification Application Fees</th>
<th>2023</th>
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<tr>
<td>ASEP Application Fee</td>
<td>£200.00</td>
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<tr>
<td>ASEP to CSEP Application Fee</td>
<td>£222.00</td>
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<tr>
<td>CSEP Application Fee</td>
<td>£389.00</td>
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<tr>
<td>ESEP Application Fee</td>
<td>£699.00</td>
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<tr>
<td>ASEP Renewal Fee</td>
<td>£111.00</td>
</tr>
<tr>
<td>CSEP Renewal Fee</td>
<td>£111.00</td>
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Please remember that membership fees paid to INCOSE UK are accepted by HM Revenue & Customs for income tax relief.

I would also like to remind you that from January 2023, the option to purchase hard copies of the SE Journal and Insight will no longer be available via the INCOSE UK Membership process. It will however, still be possible to order hardcopies via your member profile at incose.org. In addition, electronic copies of both these publications remain free of charge to all members and are accessible via the INCOSE website.

Looking ahead, we continue to work towards developing our identity, enabling INCOSE UK to be more independent and move forward in keeping with the way in which we wish to drive the profession in the UK. 2023 will see this take shape and I for one am proud to be playing my part in this process and look forward to improving the service & benefit we all access as members.

Yours sincerely,
Philip Savvides
INCOSE UK Financial Director.

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**Meet the Council**

*With the Early Careers Forum Chair role on the INCOSE UK Council coming up for election, we will be holding a Meet the Council Zoom meeting in January.*

The Meet the Council Zoom sessions are designed to give potential candidates the opportunity to speak to the current incumbent about the role and ask questions.

The Zoom meeting is taking place on the **11th of January at 12:00pm** and is available to book through the [INCOSE UK calendar](https://incose.org).

Zoom details will be sent to attendees nearer the time.
# INCOSE UK 2022 Highlights

2022 was a busy year for INCOSE UK.

## January

- **Professional Registration Webinar**
  - Professional Registration
- **Endorsed Training Provider Event**
- **Implemented new assessment approach to “Further Learning” and non-accredited qualifications aligned to AHEP.**

## February

- **Service Systems Engineering Working Group**
  - Systems Engineering & Quality Management Group
- **Continuous Professional Development (CPD) Clinic**
  - Professional Development
- **How to Explain Systems Engineering to your Friends & Family**
  - Early Careers Forum

## March

- **Paper Presentation “Bringing the Seven Samurai to Life: Managing complexity in capability delivery through time using Systems Thinking”**
  - Paper presented by Tom Ogden
- **Inclusion & Diversity in Systems Engineering Networking Outreach Event**
- **Paper Presentation “Making Technical Processes work for you”**
  - Paper presented by Keith Collyer

## April

- **Endorsed Training Provider Event**
- **Professional Registration Transfers, Additional Membership and Dual Registration Clinic**
  - Professional Registration
- **ECF Handbook Series Session 2: It's the Cycle of Life!**
  - Early Careers Forum
- **Investigations into Decarbonization of Railroads**
  - Railway Interest Group

## May

- **Professional Registration Webinar**
  - Professional Registration
- **ECF Handbook Series Session 4: Technical Management Processes**
  - Early Careers Forum
- **INCOSE UK Technical Director Jon Holt becomes INCOSE Fellow**

## June

- **Meet the Council - President, President Elect and Past President**
- **Professional Registration Webinar**
  - Professional Registration
- **INCOSE UK MBSE Interest Group Virtual meeting**
- **Meet the Council - Finance Director**
- **MBDA Bristol Open Day**
- **ECF Handbook Series Session 5: Agreement & Project Enabling Processes**
  - Early Careers Forum
- **Meet the Council - Technical Director**

## July

- **Professional Registration Webinar**
  - Professional Registration
- **Energy Systems Interest Group: June Meeting - Physical**
  - Energy Systems Interest Group
- **ECF Handbook Series Session 6: Tailoring Processes**
  - Early Careers Forum
- **Jessica Koreniowska appears in Top 50 Women in Engineering 2022 List**

## August

- **Professional Registration Advisor Training Session**
  - Professional Registration
### INCOSE UK 2022 Highlights

<table>
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<tr>
<th>August Cont...</th>
<th>October Cont...</th>
<th>November Cont...</th>
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| **Interview Preparation Clinic**  
  Professional Registration | **Endorsed Training Provider Event**  
  *Ian Hobson achieved ESEP Accreditation.* | **Negotiated a new MOA with INCOSE, supported by a Data Sharing Agreement.**  
  New MOA reflects changes in our governance regime  
  Data Sharing Agreement is vital under GDPR because under UK Data Protection Law, the USA is considered to be “not adequate”.  
  Also requested changes to level of membership fees retained by MOA chapters such as the UK. |
| **ECF Outreach Kick-Off**  
  Early Careers Forum | | |

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<tr>
<th>September</th>
<th>November</th>
<th>December</th>
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| **SEP Certification Clinic**  
  Professional Certification | **Evening Lecture - The Systems Engineering of Quantum Technologies by Dr. Kieran Bjergstrom**  
  Midland Local Group | **Evening Presentation: Becoming a Systems Engineering Professional by Steven Turner, INCOSE UK Professional Development Director**  
  Midlands Local Group |
| **MBDA Bolton Open Day**  
  ECF Handbook Series Session 7: Cross Cutting Systems Engineering Methods  
  Early Careers Forum | **Professional Registration Webinar**  
  Professional Registration | **Talk: Multi-context Modelling Applied to ISO Standards for Automotive Cybersecurity and Safety**  
  Automotive Interest Group |
| **First cohort of “home grown” interviewers & assessors.** | | **Recommendation from our last review to extend our Engineering Council licence to Jan 2025, aligning to the 5-year rolling schedule for full licensees.** |

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<tr>
<th>October</th>
<th>November</th>
<th>December</th>
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| **Evening Lecture: Delivering SE in Practice by Prof. Duncan Kemp (MoD)**  
  Midlands Local Group | **Annual Systems Engineering Conference 2022**  
  **Don’t Panic! The Absolute Beginners Guide to Service Systems and Services Book Launch**  
  **ECF Workshop at INCOSE UK Annual Systems Engineering Conference**  
  Early Careers Forum | **Ongoing**  
  **Joint Review Board with the Institute of Explosives Engineers continues to work well, sharing the assessment load.** |
| **INCOSE UK MBSE Interest Group Virtual and Face to Face Meeting**  
  **MBSE Working and Interest Group**  
  **C/D/E Competences Clinic**  
  Professional Registration  
  **INCOSE Automotive IG hangout**  
  Automotive Interest Group  
  **ECF Handbook Series: Speciality Engineering Activities**  
  Early Careers Forum | **Think Engineer animation premiered**  
  **Recommendation from our last review to extend our Engineering Council licence to Jan 2025, aligning to the 5-year rolling schedule for full licensees.** | |
ASEC 2022 Highlights

What did you like most about the event?

“The kindness and how everybody I encountered was welcoming”
ASEC 2022 Highlights

What did you like most about the event?

“Networking opportunities with my peers”

What did you like most about the event?

“Attending the event invigorates my intention to use and research different approaches, it has great energy and the Systems Thinking tutorial was great”
The event commenced with an introduction by the INCOSE UK president, Mr. Ian Gibson, followed by a spectacular keynote address, dubbed the M’Pherson lecture in memory of Philip M’Pherson, delivered by Ms Laura Doughty. Ms Laura’s address was focused on the power of connection: the power of influence. One of my key takeaways from the presentation was that as systems engineers, we are perfectly positioned to be highly influential and being influential is taking a genuine interest in someone else and being heard.

The second day of the conference started with the INCOSE UK AGM, followed by the Arnold Lecture delivered by Ian Gibson and Malcolm Thomas. The Arnold lecture presented the transition from INCOSE UK to the Institute for Systems Engineering (IfSE). Details of the transition process were presented including the roadmap and the impact of the transition for existing and new members. Following the Arnold lecture was a presentation by Stuart Jobbins on Agile Systems Engineering: The good, the bad and the ugly. This presentation sparked a lot of interest from the audience as a lot of questions were asked and the discussions continued even after the presentation. I particularly enjoyed the proposed amendment of the Agile manifesto for Systems Engineering and I
Digital-Twins throughout the system lifecycle was proposed. Following this, a presentation on the use of social network metrics in Model-Based Systems Engineering was delivered by Simon Perry. This presentation adopted the use of Graph Theory in combination with social network metrics to transform a SysML model into a mathematical graph. An analysis was performed on the model to identify gaps in the model where there are no correlations between certain aspects of the model. The analysis is also used to identify model elements which are either not connected to other parts of the model or are highly connected to the model. This presentation was really intriguing to me as it shows that as a discipline, identifying metrics for systems analysis is as important as creating the model itself as the analysis may be informative and form the basis of some degree of decision-making in the implementation phase.

In general, the INCOSE UK ASEC 2022 provided a lot of opportunities for me to meet other systems engineers in the industry, listen to presentations from colleagues in other industries who are applying SE in various ways, including applying process improvement methods to their activities to improve efficiency and accuracy of the systems they develop. I also found the networking opportunities useful, and it was interesting to learn about other processes which I would not usually encounter in my day to day activities. My appreciation goes to INCOSE UK for putting together a truly spectacular event. I look forward to the next one.
Derek Hitchins Award - Best Paper by a New Author and Presenter

Adam Lancaster and Scott Reid

Adam Lancaster and Scott Reid were awarded the Derek Hitchings Award for their presentation “Getting the ‘Digital First’ Future You Want incl. Model-Based Systems Engineering (MBSE) and Digital Twins.”

Best Paper Award

Stuart Jobbins

ASEC 2022’s Best Paper Award went to Stuart Jobbins for his paper “Agile and Systems Engineering: The Good, The Bad and The Ugly.”

Best Presentation Awards

Voted for by attendees, we are pleased to announce the winners of the ASEC 2022 Best Presentation Awards. Congratulations to all the winners.

1st Place - Colin Cunningham, David McNaught and Tim Kerby

“Rethinking Engineering”

2nd Place - Stuart Jobbins

“Agile and Systems Engineering: The Good, the Bad and the Ugly”

3rd Place - Henry Tse, Henry Chamberlain and Tim Kerby

Zero Emissions Flight Infrastructure
The ASEC 2022 Proceedings are now available to order from the INCOSE UK Online Store.

These are the published papers of the INCOSE UK Annual Systems Engineering Conference, the best papers from this year’s submissions to ASEC 2022.

We hope that this will allow delegates to review/study the papers in more depth after the conference. The printed proceedings will also give the option for members who were not able to attend the event to be able to get a taste of what happened at ASEC 2022 and hopefully inspire them to attend a future event.

We trust that the proceedings will provide a lasting benefit and fitting record of INCOSE UK’s ASEC 2022 - Building Towards A Brighter Future.

Reserve Papers

“Delivering Value from Data - A Systems Engineering Approach”

*Beth Fitzpatrick*

“Stakeholder-Needs Driven Systems Development: A Flexible Automation Case Study”

*Dr Kim Stansfield, John Fraser, Steve Dimelow, Dr Cather Y.P. Chan,*

*Glenn Mazur*

We would like to thank the above presenters for submitting their papers and for agreeing to be reserve speakers. We will be inviting the speakers to present their papers online at a later date and we will inform you of when those sessions are available to book.

All the papers and presentations from the event can be found on the [INCOSE UK website](https://www.incosek.co.uk) in the Event Document Archive.

Documents with a padlock are only available to INCOSE UK members.
At the end of each event, we ask attendees to complete a survey so we can gain an overview of how the event was received. Below are some results from this year’s survey.

**Presentations**

Did the quality and range of the Presentations meet your expectations?
- Yes: 91%
- No: 9%

Were your questions answered to your satisfaction?
- Yes: 97%
- No: 3%

**Tutorials**

The material and presentations were:
- Excellent: 64%
- Good: 28%
- Average: 6%
- Poor: 2%

The room facilities were:
- Excellent: 47%
- Satisfactory: 51%
- Poor: 2%

**Venue**

Quality of this year’s conference venue (Crowne Plaza Hotel)
- Excellent: 89%
- Satisfactory: 11%

Quality of food/refreshment provided during the conference
- Excellent: 59%
- Satisfactory: 38%
- Poor: 3%

Location of, and ease of travel to, the venue
- Excellent: 76%
- Satisfactory: 18%
- Poor: 6%

Accessibility of the venue
- Excellent: 79%
- Satisfactory: 21%

**Social Media**

Did you participate in the social back channel during ASEC 2022 (#ASEC2022UK)?
- Yes: 35%
- No: 65%
ASEC 2022 Exhibitors and Sponsors

We would like to thank the following companies for exhibiting at ASEC 2022

- Jama Software
- Dassault Systemes
- Ministry of Defence
- Project Performance International
- Scarecrow Consultants
- SMR
- Synthesys Technologies
- Zuken

We would like to thank the following companies for sponsoring ASEC 2022

- Jama Software
- Optima Systems Consultancy
- THALES
- Synoptix
- Certification Training International
- WSP
**INCOSE UK Awards**

**Outstanding Service Awards**

*The Outstanding Service Award is suggested by, and voted on, by INCOSE UK Members.*

**Beth Fitzpatrick**

In recognition of her work taking on the role as the Chair for Student Outreach for the EMEA Workshop in 2021, and ongoing support to the EMEA Workshop/Systems Engineering Conference to be held in 2023. Beth’s involvement on the international stage has gained her many favourable opinions and should act as a launching point for further engagement in the future.

**James Towers**

James devoted many years as Chair of the MBSE Working Group during which the group has prospered and contributed greatly to the enhancement of INCOSE UK’s reputation. His leadership has seen the group grow to become one of the most active and largest of our groups. Even through the pandemic the group continued to thrive.

**Ian Clark**

Ian expended considerable energy to the formation of the MBSE Interest Group, a spin off from the MBSE Working Group, so that those with an interest in MBSE could meet and engage in discussion rather than develop products. His leadership of the group meant that it continued to prosper through the pandemic.
Bruce Elliot

For unwavering leadership of the INCOSE UK Rail Interest Group (RIG).

Under Bruce’s guidance the group has thrived. During the recent pandemic, the RIG embraced the “virtual world” and expanded its audience to include members of the INCOSE Transportation Working Group.

Derek Price collected the award on Bruce Elliot’s behalf.

Bruce said, on receiving the award “I am just writing to offer my appreciation for the long service award from INCOSE UK. I take it as an award for persistence, at least in part, but, in my view, persistence is necessary to get worthwhile things done and so I was particularly touched to receive it. The award says "unwavering leadership" but, of course, leadership is easy when one has such a great group of people to lead. Nonetheless, the award will sit proudly above my desk and would like to pass on my thank to anyone involved.”

Presidents Award

Steven Turner

In recognition of his dedication and admirable work ethic in making sure that INCOSE UK’s professional registration activities and obligations have been delivered to a high standard since he took on the role of Professional Development Director. Knowing that this critical part of our operation as a Professional Engineering Institution is in safe hands has enabled me to focus on other areas during my presidency, whilst still supporting where needed.
To celebrate the launch of the recent Don’t Panic! Book “The Absolute Beginner’s Guide To Service Systems and Services” by Simon Wright we will be holding a Meet the Author zoom meeting.

On Monday the 16th of January 2023 we will be holding a Meet the Author Zoom session with Simon Wright, author of the new Don’t Panic! “The Absolute Beginner’s Guide to Service Systems and Services”.

This gives you the opportunity to speak to the author, ask questions about the book and maybe find out a little bit more about what goes into writing a Don’t Panic! Book.

This session is available to book through the INCOSE UK Events Calendar.

Don’t Panic! The Absolute Beginner’s Guide to Service Systems and Services is available to purchase from the INCOSE UK Online store.

Build a high-performance team with systems engineering corporate training from PPI

- Join 18% of Fortune 100 companies
- Get content tailored to your enterprise’s needs
- Save up to 50% compared to our open enrollment courses
- Earn CPD PDUs

We come to you, worldwide

HOW CAN WE HELP YOU?

systems/product engineering training & consulting for project success ... ppi-int.com
SE-Training has been founded in Switzerland due to its unique needs for cross-functional engineering disciplines such as Systems Engineering, Project Management, Safety Engineering, Product Development and Design Thinking. The educational services and products compliment Switzerland’s drive, ambition and success in delivering innovate and high quality products and services. There are a high number of engineering organisations based in the country with a diverse spectrum of needs. SE-Training’s aim is to address these unique needs through products and services provided by experienced Engineering professionals and academics.

SE-Training was founded by Sebastian Klabes and Mike Johnson to address the unique needs of Academic and Industrial organisations. The company has grown significantly since its foundation in 2016. It is renowned for delivering cross-functional engineering products and services across Europe. The recent growth of the company can be attributed to the continuous assessment of quality of products and services, in addition to the high visual presence at engineering events and publishing in magazines, newsletters, social media as well as providing educational webinars.

**Endorsed Training Provider Event**

During 2022 we held three Endorsed Training Provider Courses.

The first was a virtual event held in January with Burge Hughes Walsh Ltd running the “Systems Engineering Fundamentals” course.

The following two were live events, the first being held in April was a 3 Day MBSE Course run by Simon Perry from Scarecrow Ltd in Marsh Farm Hotel in Royal Wootton Bassett, Swindon.

The second live event was held in October, at the Lydiard House Hotel in Swindon, and was a 3 day “Systems Engineering Fundamentals” Course run by Burge Hughes Walsh.

We received great feedback from all three events and will be running more in 2023, the first is currently scheduled for March, however this will be finalised at a later date and we will keep you up to date with the details.

We would like to welcome SE-Training as a new Endorsed Training Provider. Full details of the courses will be included on the Endorsed Training Provider webpage in due course.
We would like to congratulate Jamie Stares who has attained CEng Accreditation. Members listed have given their consent to be published.

Jamie Stares - CEng Case Study

Jamie Stares has been working in risk management, Systems Engineering and safety assurance roles for over 20 years and has recently attained his CEng.

In his Case Study, Jamie talks us through the ins and outs of becoming professionally registered with INCOSE UK and has some good advice to give to future INCOSE UK CEng applicants, including using a Career logbook to record career, getting the right level of support and seeking advice from any colleagues who have been through the process.

You can read the full Case Study here.

We would like to congratulate the following members who have recently attained ASEP, CSEP and ESEP. Members listed have given their consent to be published.
Professional Development

Professional Development 2022 Overview

Registration

Throughout 2022 the number of CEng’s rose from 45 to 56 and the number of IEng’s remained at 4.

Certification

Throughout 2022 the number of ASEP’s rose from 156 to 174, CSEP’s increased from 84 to 89 and the number of ESEPs remained at 16.

Professional Development Webinars

During 2022 our Professional Registration Webinars remained popular, with over 130 attendees spread across the 5 sessions. Our Certification clinics also continued to be popular with over 160 attendees across the 6 sessions.

PD Webinars 2023

- 18th January 2023 - Professional Registration Webinar
- 15th February 2023 - Interview Preparation Clinic
- 15th March 2023 - SEP Certification Clinic
- 12th April 2023 - Professional Registration Transfers, Additional Membership and Dual Registration Clinic
- 17th May 2023 - Professional Registration Webinar
- 14th June 2023 - Professional Registration Webinar
- 12th July 2023 - Professional Registration Webinar
- 16th August 2023 - CPD Clinic
- 13th September 2023 - SEP Certification Clinic
- 11th October 2023 - C/D/E Competences Clinic
- 15th November 2023 - Professional Registration

INCOSE UK News

I’m a Volunteer and I do…

Thomas Aldous

Thomas Aldous is the group liaison for the Early Careers Forum and has kindly agreed to take part in our “I’m A Volunteer and I Do” feature.

Thomas was encouraged to volunteer after attending ASEC 2021 where he attended several interesting sessions, including one held by the Early Careers Forum. After a shift in his career he wanted to fully embed himself in the Systems Engineering world and thought that there would be no better way than volunteering with INCOSE UK.

Thomas says that volunteering provides you with organic networking opportunities and connections which could become priceless as you develop your career.

You can read the feel feature here.
ECF hosted the inaugural Open Workshop at ASEC this year, giving ECF members access to the session (and subsequent ASEC panel session) free-of-charge. This enabled a great turnout, filling the room! Some of the activities included:

- Summary of the ECF Handbook Series that was run this year, taking feedback on it and what members would like to see next year
- Presentation on what writing a technical paper for INCOSE UK looks like, and how beneficial that can be to early careers individuals
- Steve Turner, INCOSE UK Professional Development Director, delivered a great talk on the pathways to registration and certification relevant to ECF
- Systems Engineering-themed icebreakers and networking, including a pre-dinner social

Overall, it was a great afternoon, providing an excellent chance for those new to the profession to engage with other like-minded individuals. The rest of ASEC was insightful and thought-provoking, with ECF getting more than a few shout-outs from INCOSE UK. Access to conferences early in the careers of systems engineers can be invaluable in broadening professional networks, gaining an appreciation for the wide-ranging work undertaken in the discipline, and seeing opportunities to contribute to research.

Following the success of the event, the workshop is set to continue in this format for future ASECs, and the committee are looking forward to planning next year’s suite of monthly ECF activities - watch this space! If you (or an early careers person you know) would like to become a member of the ECF, email ecf-chair@incoseuk.org or reach out to the committee on LinkedIn - employees of UKAB companies can become members for free.
Careers at Edwards

As a global pioneer, Edwards has been leading the market for vacuum and abatement solutions for over 100 years. Vacuum is required for astonishingly diverse applications, from consumer products to large scale industrial uses - from the challenging environments of space simulation to mobile phones, computers and coffee beans, we pride ourselves in making a difference to people’s lives. Committed to safe and sustainable innovation, we help our customers solve the problems of the future.

Edwards has over 4,000 employees worldwide engaged in the design, manufacture and support of high technology vacuum and exhaust management equipment.

We’re currently recruiting for a Systems Engineer to work from our head office in Burgess Hill, Sussex. Working with us means working with the latest technologies and groundbreaking, sustainable innovations. With our inclusive and caring environment, you get the support and inspiration you need to grow.

Join us on our journey for a better tomorrow and apply today!

18th January 2023 - Evening Lecture: Systems Engineering & Type 31 Frigate Mega Project - Samuel Brown (Systems Engineering Discipline Lead, Babcock Int. Group)

Samuel Brown, Systems Engineering Discipline Lead from Babcock Int. Group will be giving a lecture on Systems Engineering & Type 31 Frigate Mega Project. Samuel has over 23 years experience working in defence, working in various roles, and will discuss the engineering activity and challenges faces on this very fast paced design and build project.

To book, visit the INCOSE UK Calendar.
INCOSE UK would like to welcome Sellafield Ltd as the newest member of the INCOSE UK Advisory Board.

From cleaning-up the country’s highest nuclear risks and hazards to safeguarding nuclear fuel, materials and waste, our work is nationally important.

- Early engagement on Project Systems Engineering fundamentals (inc. Handbook development and rollout, indexing process expectations, best-practice prompts and references)
- 100+ people / x7 CPD cohorts complete with 35+ ASEP / CSEPs made (across SL, supply chain and wider NDA estate)
- Intra-profession / institute / org links (e.g. APM / BCS / Nuclear Institute / Jacobs / Babcock / RWM / Magnox / Cavendish etc); Revised people and process expectations rolled out via management systems
- Updated collaborative management plans for major projects
- Development of working group framework aligned to ISO 152288 within SL
- Enterprise Systems Thinking strategy and capability now mobilising
- Support to INCOSE Certification Application Review

A declaration of intent for 2023

Hit the ground running in the new year by getting SE-certified

Let us give you the tools you need to achieve your professional certification.

CTI’s new premium training schedule is now available. **Enrol early and enjoy 10% off.**

[SECURE YOUR SPOT!](certificationtraining-int.com)
INCOSE UK would like to thank the following companies who advertised with us in 2022.
We are hiring across our systems engineering division with opportunities across multiple locations and for varying levels of experience.

Join Atkins, a member of the SNC-Lavalin Group, as a Systems Engineer in our growing Aerospace, Defence, Security and Technology division, and you’ll be part of a team that provides independent and objective advice in mission-critical sectors.

In a culture that never stops developing and investing in new capabilities, we turn bold ideas into reality. Here, you’ll be supporting complex systems engineering projects through the application of systems thinking and systems engineering methodologies.

Our projects, that vary from niche consultancy schemes to large high-profile programmes, will enable you to develop and keep you challenged. You’ll join a diverse team of friendly, market-leading specialists and you’ll be trusted to deliver independently – leading the way through a range of projects where true multidisciplinary collaboration enables us to reach new levels of innovation.

We know that different people have different priorities, which is why we’re here to support you. Flexible and remote working is a central part of our culture. So, talk to us about what’s ideal for you – from reduced hours to buying an additional 15 days holiday.

Find out more and apply today at Aerospace, Defence, Security and Technology

Join us in engineering a better future for our planet and its people
## INCOSE UK Calendar

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<tr>
<th>Date</th>
<th>Event</th>
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<tr>
<td>11 Jan 23</td>
<td>Meet the Council</td>
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<td>Zoom Session</td>
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<td>16 Jan 23</td>
<td>Meet the Author</td>
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<td>18 Jan 23</td>
<td><strong>Evening Lecture: Systems Engineering &amp; Type 31 Frigate Mega Project</strong></td>
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<td>- Samuel Brown (Systems Engineering Discipline Lead, Babcock Int. Group)</td>
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<td>Online Event</td>
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<tr>
<td>18 Jan 23</td>
<td>Professional Registration Webinar</td>
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<td>To register email: <a href="mailto:profdev@incoseuk.org">profdev@incoseuk.org</a></td>
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<tr>
<td>15 Feb 23</td>
<td>Interview Preparation Clinic</td>
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<td>To register email: <a href="mailto:profdev@incoseuk.org">profdev@incoseuk.org</a></td>
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<td>March</td>
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## ADVERTISE WITH INCOSE UK

INCOSE UK is a Professional Engineering Institute (PEI) focused on Systems Engineering. With over 1,200 members coming from diverse backgrounds covering purchasers, system developers and academics and representatives including aerospace, automotive, defence, transportation, communication and telecommunications, INCOSE UK is the best place to get your message across.

Please contact [advertise@incoseuk.org](mailto:advertise@incoseuk.org) for more information.