Do you know an engineer on a mission?

Sanka and David
UK Young Engineers of the Year

on a mission to help epilepsy sufferers

Jaz Rabadia
Starbucks

on a mission to reduce energy use

We want to hear about engineers who are using their skills to solve the big issues young people care about.

Contact us to find out how you can be part of our #EngineerOnAMission campaign for #TEWeek17

tewek@engineeringuk.com

Get involved in
Tomorrow's Engineers Week 2017

Tomorrow’s Engineers Week 2017 (#TEWeek17) has a range of ways for partners, employers and schools to get involved.

Together we will show that engineers are on a mission to make the world a better place

Visit www.tomorrowsengineers.org.uk/TEWeek to find out more and download our toolkits.
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Welcome to ePreview, the INCOSE UK newsletter. ePreview covers topical news and events that are of interest to the UK Systems Engineering community, complementing our tri-annual magazine, Preview.

Welcome to the 69th edition of ePreview!

In this issue, we bring information on the results of the recent INCOSE UK Council elections and the candidates who are due to be officially appointed at the AGM this year. We hope that the new directors will continue to contribute fresh ideas to INCOSE UK.

The INCOSE UK AGM will be taking place on 21st November in conjunction with INCOSE UK’s ASEC. This is open to all members and not just those who are attending the Annual Conference. More information can be found on page 4.

We also bring news of INCOSE UK’s latest publication: ‘Guidance in the Interpretation of UK-SPEC When Applying for Professional Registration as a Systems Engineer’. A soft copy of this is freely available to all members and it is intended to help guide members through the process of applying for professional registration through INCOSE UK. Find out more on page 9.

We would also like to remind our members that voting for positions on the INCOSE International Council opens in November. Details of the positions up for election and the candidates running can be found on page 12.

On pages 11 and 16, you will also be able to find details on two events taking place this year that we believe will be of interest to our members.

Finally, the next INCOSE International Symposium is taking place in July 2018, with the theme of ‘Delivering Systems in the Age of Globalisation’. The call for papers, tutorials, and sessions can be found on pages 13, 14, and 15.
The call for nominations for the posts of Outreach Director, Communications Director, and Events Director on the INCOSE UK Council closed on 18th September.

All three roles received nominations and all of the positions were uncontested. As the positions were unopposed, the candidates for each role will be officially appointed into the respective roles at the AGM in November, with no requirement for the INCOSE UK membership to vote.

This year’s AGM will take place at 17:00 on 21st November at Warwick Conferences, University of Warwick. This is open to all INCOSE UK members.

Each of the new directors has written a statement to accompany their appointment, and you can read these over the following pages.

Emma Jane Taylor
INCOSE UK Company Secretary
INCOSE UK Council Directors

Ian Gibson—Outreach Director

Outreach is fundamental to the long term success of INCOSE UK. The very nature of Systems Engineering as an integrating discipline demands that INCOSE UK must engage with other related organisations and practitioners in related fields. Much of our current success is built upon providing a forum for the exchange of ideas on the application of systems thinking to engineering problems, and as our thinking evolves, it will naturally be enriched by contact with other ideas from different organisations, disciplines, domains and cultures.

The role of Outreach Director in the INCOSE UK Council is a new role, which will need to be shaped during its initial stages. As the current international INCOSE Outreach Director, I am uniquely qualified to bring my international experience to the UK role, and will relish the opportunity now that I have been elected. With my international term of office concluding in November, I will be available to give this role the attention it deserves for the remaining year, before it is up for re-election in 2018.

My vision for the future of INCOSE UK outreach is based upon three core strands:

- Engaging with other professional bodies whose interests overlap with our own, in order to explore potential opportunities to conduct joint activities

- Encouraging members to reach out through personal contacts and appropriate forums to the wider Systems Engineering community, and related fields, in order to raise awareness of INCOSE, its mission, and its values. This is something that we should all be doing as part of our daily working lives as professional systems engineers, appreciating that complex problems are generally best addressed through engaging with other people through a lens of systems thinking. This includes making use of social media to create a narrative around Systems Engineering, not just using it to broadcast to existing peers

- Forging strong links with our international INCOSE colleagues, to support the promotion of good Systems Engineering practices into new industrial domains and new geographical areas, including those where we recognise that they are doing Systems Engineering, even if they don’t – and who knows, maybe we can learn something from them in return to move the collective body of knowledge forward

I am also very keen to work with Academic Institutions and our Early Careers members, as they have such a strong part to play in the further growth of INCOSE UK and the Systems Engineering community as a whole.
Hazel Woodcock—Communications Director

I took up the role of Communications Director three years ago, in the belief that I could make a difference. I think I have made a difference, but there is also much still to do. In the last three years we have gone from a paper Preview magazine that was a society newsletter, to an electronic publication that still contains the newsletter content, but also contains more articles of general interest, and has an ISSN. Going to an electronic version took away our cost restraints on the printed page count and allowed us to be much more adventurous. Dot-The-Eye have been invaluable in this work, including the tireless efforts of Phil as Preview editor. I have worked closely with Dot-The-Eye on this and other aspects of our communications. I have secured some funding to work on the website, and that work will be done in Q1 next year.

The role of Communications Director includes responsibility for publications such as Preview and ePreview, social media accounts, the website, and surveys. There are many stakeholders, including members, both individual and UKAB, Council and group leaders (working group, interest groups, and local groups).

For the next three years, I have ideas of what I would like to achieve. The website is an obvious candidate for more attention; it was set up in its current form seven years ago, and while the underlying structure is good, the presentation needs attention. I also want to work on making information more accessible; for instance, if you are setting up a group, or running a group event, I would like to have templates and guidance notes readily available.

Our social media channels are now well established, primarily the LinkedIn and the Twitter accounts. I intend to improve our use of these to give a coherent picture of what is happening with the INCOSE UK organisation, not just to members, but to those outside of INCOSE UK as well.

If this was my full-time job, I am sure I would be able to productively fill my days. As a volunteer, I am grateful to IBM for allowing me to spend some time on this role, and I do much of the work out of hours. I see positive change from the last three years, and look forward to positive change in the next three years.

Who am I?

I am an Industry Solution Architect with IBM. I started out as an electronics engineer, with experience at all stages of the lifecycle. I worked primarily in Defence and Automotive, before joining Telelogic in 2005 as a DOORS Consultant. Since then, I have worked with clients in a variety of industries.

I joined INCOSE in 2003 and have been able to find a level of involvement that I am comfortable with at every stage, including attending events, joining working groups, running training day courses, acting as UKAB representative, and as Communications Director for the UK Chapter.
Hi, I’m Tanya, and I look forward to working with the INCOSE UK team as Events Director. I’ve recently joined Systra Scott Lister, where I’ll be working on Rail projects. I’m a Mechanical Engineer by training and early work experience, but have moved across into SE over the last six years, and am always happy to share how that journey has been for me. I’m Chartered with the IMechE and, in 2017, received Certified Systems Engineering Professional certification from INCOSE UK. Over the last few years, I have been involved in the GRIP 5 SE effort on Crossrail Abbeywood Station, Product V&V for the MoD and developing SE processes and systems for the DEMOnstration Fusion PowerPlant, as well as timetabling optionneering for HS2. Prior to that I have several years’ experience across the Rail, Oil and Gas, and Nuclear sectors. There is a bit of a recurrent theme going on – back in 2011, I was part of a team which presented a paper at the IMechE on urbanisation in the USA, and the implications on Transport and Energy infrastructure.

On a personal level, I live outside Reading, near Pangbourne, and am pinning my hopes on Crossrail to make my commute to work a lot easier. In my spare time, I run two Brownie units. We’ve had quite an eventful year, which has included geocaching, canoeing and a sleepover at Legoland. Other than that, I get to babysit my niece a fair bit, and I keep telling my husband that the only reason I married him was for his Springer Spaniel! We enjoy taking Daniel out for long walks and pub lunches, although Daniel much prefers hogging the living room fireplace to himself. It works for us, as my husband and I are currently trying to sort and categorise our library. At last count, we had over 1,200 books between us, although that does include the duplicates that neither of us are quite willing to give up just yet!

I have been an INCOSE UK member since 2015, and actively practicing Systems Engineering for the last four to five years. Successful outreach and events are key to the promotion of Systems Engineering as a discipline and for placing INCOSE UK at the forefront of setting the standards for how Systems Engineering is used. Having attended several INCOSE UK activities, such as ASEC, the Training Day, and WG meetings, the opportunity for networking and raising the profile of Systems Engineering has been increasingly apparent to me. In particular, it is important to encourage and develop the next generation of systems engineers. I therefore strongly feel that it is important to continue to set the bar high for the quality and content of the various events run by INCOSE UK and to make sure that we are getting good cross-industry engagement.

I would like to very much acknowledge and thank Ian Gibson for the sterling effort he has put in over several years to put together some very successful programmes for ASEC and for the Training Days. I’m sure that the INCOSE UK membership will join me in thanking Ian for his contributions. I will have a lot to do to continue and build upon his success as Events Director.

I would like build on Ian’s work by seeking to include more joint events with other organisations where there is an area of significant interest and overlap. This will be done in collaboration with the Technical Director and Council, as I acknowledge that we need to retain focus and quality on our core topic areas of expertise. I would very much like to promote us taking part in wider outreach activities, specifically with the remit of encouraging the next generation of systems engineers. In support of this, I will be seeking to work closer with the Communications Director for INCOSE UK to promote INCOSE UK’s values, and drive membership growth.

It is also vitally important for me to acknowledge that the flagship events are supported and delivered by a hard-working team of volunteers closely supported by the professional services provided by Dot-The-Eye. I look forward to working closely with this dedicated team and enabling them to contribute to keeping our events fresh, current, and relevant to the work that our members deliver on a daily basis.
UK SPEC Guidance

INCOSE UK has published a new Guidance Document for systems engineers who are looking to apply for professional registration through INCOSE UK.

This document has been created to work alongside the UK-SPEC, and has been specifically written to help potential candidates when applying for registration as an Incorporated Engineer (IEng) or Chartered Engineer (CEng). This new guide adds context to the information presented in the UK-SPEC, offering domain specific advice and examples to help support candidates through the application process.

The Engineering Council has reviewed this document and has allowed INCOSE UK to include the Council’s logo on the cover of the guide, formally showing their endorsement and approval. The Engineering Council also asked the INCOSE UK President, Ivan Mactaggart, to present the document at the Annual Professional Affiliates Meeting on 26th September 2017.

Ivan stated “Professional recognition is the formal acknowledgement of an individual’s professional status and right to practice in their profession in accordance with agreed professional standards. Our volunteers, Secretariat, and the INCOSE UK Council have worked hard to develop this guidance to support individuals in applying through our registration arrangement. Recognition from the Engineering Council in support of this Guidance Document is a significant accomplishment and consistent with our aims and vision.”

Ian Presland, INCOSE UK Professional Development Director, also commented, and said “Our members regularly ask how they should document their Systems Engineering experience when completing competence statements for EngTech, IEng, and CEng professional registration applications. This domain specific guidance is designed to help them in this task. We have also integrated the new guidance into our INCOSE UK mycareerpath® profiles to further support members in their application process”.

INCOSE UK are thrilled with the positive and enthusiastic response to the guide, and hope that it will prove to be informative and helpful to not only INCOSE UK members, but also the wider Systems Engineering community.
This year, ASEC will be returning to Warwick Conferences from 21st – 22nd November, with this year’s theme set as ‘Pushing the Boundaries of Systems Engineering’. ASEC brings world-class Systems Engineering professionals to the UK’s premier SE conference, providing exceptional educational and networking opportunities.

This year’s event will be in a brand-new facility for 2017, The Slate, a venue offering extensive facilities, even bigger spaces, and excellent service. This new setting is the perfect destination for ASEC 2017.

The schedule for 2017 features keynote addresses, tutorials, and technical presentations, with something available for both experienced practitioners and new professionals alike. Some sessions have a limited availability, and spaces are allocated on a first come first served basis. To avoid disappointment, we recommend that you don’t delay booking.

Booking for ASEC - including on-site accommodation - is now open. To secure your place, and to access the online ASEC brochure for further information, please visit the dedicated ASEC 2017 website.
National Engineering and Construction Recruitment Exhibition

The National Engineering and Construction Recruitment (NECR) Exhibition returns to the NEC in Birmingham on the 24th and 25th November 2017

The NECR gives you the chance to meet recruiters from leading companies in the engineering and construction industries and find out about a vast range of job opportunities that are waiting for you.

If you are looking for the right step to advance your career, or want advice on how to find it, then make sure you don’t miss this opportunity to gain invaluable industry guidance. At the exhibition this November, you will have the chance to take advantage of expert advice and employability workshops designed to help you further your career including careers advice, one-to-one CV consultation, psychometric testing practice, and interview workshops. Attendance also contributes towards your CPD, making it an excellent event for professionally registered engineers. By attending one of the free visiting company presentations, you can gain inside knowledge on current projects, career opportunities, and how exactly to get your foot in the door.

INCOSE UK will be participating as part of the Professional Development Hub, where attendees can access information on how professional institutions can benefit them and their career progression with the help of networking and professional development opportunities.

The NECR will also be hosting the Women In Engineering Forum. Be inspired to reach your career goals, learn how the engineering industry is adapting to encourage greater gender diversity, and make a whole host of new contacts at the Women in Engineering Forum! The Forum is sponsored by Morgan Sindall and is supported by the Women's Engineering Society.

The Engineering Innovation and Skills Conference is free to attend for INCOSE UK members. Join your peers at this essential conference for engineering professionals and look ahead to the future, as a top line-up of thought-leaders tackle topics ranging from how to make sure technologies keep you ahead of the game, to the future of transport and infrastructure.

To register for this free conference, and to find more details on the workshops on offer and who is recruiting, simply visit the NECR website.
INCOSE International Elections

The voting for the 2017 INCOSE elections opens this November.

The time of year to vote on the INCOSE Central elections is fast approaching. The INCOSE elections give you as members the opportunity to have a say in how and by whom the organisation is run.

The positions open and those running for each post are as follows:

- **President-Elect**
  - Kerry Lunney
  - Paul Schreinemakers

- **Treasurer**
  - Rene Oosthuizen
  - Michael Vinarcik

- **Chief Information Officer (CIO)**
  - Bill Chown
  - Robert Edson

- **Director for Outreach**
  - Gina Guillaume-Joseph

- **Director for Asia-Oceania**
  - Serge Landry

Please visit the [INCOSE International website](http://www.incose.org) to find out more about the positions open, the responsibilities of each role and to find information on the people running for each post.

---

**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](https://www.incose.org.uk) now.
INCOSE International Symposium

The INCOSE International Symposium: Delivering Systems in the Age of Globalisation

The Annual INCOSE International Symposium will be taking place in Washington DC, USA from the 7th—12th July 2018. This is the premier international forum for Systems Engineering, where participants have the freedom to network on a global stage, sharing ideas, knowledge, and practices.

The Symposium relies on the participation of INCOSE members, and paper, panel, and tutorial submissions are requested in line with the requirements given in this call for papers.

The emphasis this year is on ‘Understanding and appreciating threats and risks in complex environments’. All submissions are greatly appreciated.

The submissions timeline is as follows:

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<td>10th November</td>
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<tr>
<td>Notification of acceptance and referee comments</td>
<td>16th February</td>
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<tr>
<td>Final Manuscript</td>
<td>30th March</td>
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Call for Papers

INCOSE encourages authors to submit high quality, close-to-final draft papers addressing Systems Engineering. Ideally, a draft paper should cover the full scope from theory to full scale theory validation. However, papers just presenting research proposals coupled with initial results will also be considered.

The INCOSE Manuscript Template shall be used to prepare papers between 6 and 15 pages (including graphics, references, and biography). The close-to final papers shall be submitted in English using the Online Submission Process and shall describe original work that has not previously been published. Joint authors shall nominate a single point of contact. Papers that do not conform to the submission instructions and manuscript template found at www.incose.org/symp2018 may be rejected without review.

Each draft paper will be reviewed by at least 3 members of the INCOSE review team, and judged on a range of parameters. Papers shall include:

- Clarity of expression
- Effective communication of ideas
- Provide usable information or insight to enable INCOSE members to improve their application of Systems Engineering
- Provide innovative and novel techniques that enhance the execution and effectiveness of Systems Engineering in multiple industries and domains

Full evaluation criteria can be found on the Symposium website.
Call for Panels/Roundtables

Proposals for panels or roundtables must use the corresponding template, be in MS Word 2003 or later format, and be submitted according to instructions on the Symposium website.

The following requirements and constraints apply for developing your proposal:

- The session shall focus on a topic of interest to the Systems Engineering community
- Participants may include policy makers and leading authorities from within and outside the INCOSE community
- The proposal shall specify the session facilitator(s), who shall be the proposal point of contact
- Sessions are 1 hour 30 minutes to 2 hours in length
- The proposal shall specify the topic(s), relevant sector/enabler area and lead participants, outline the themes that will be presented, and abstract
- Session logistic requirements including facilities, media and supporting materials must be covered within the proposal

Panel sessions should:

- Dedicate at least half the session time to discussions and audience interaction
- Provide at least two contrasting/opposing viewpoints or positions
- Include a one-page draft position statement and bio from each panellist

For Roundtables:

- Include the purpose, target audience, and format of the Roundtable

For accepted panels/roundtables, the lead facilitator is required to provide the information described above, selected elements of which will be published in the Symposium Proceedings.

Each submission will be reviewed by at least three members of the INCOSE review team. The evaluation criteria for Panel and Roundtable proposals can be found at the Symposium website www.incose.org/symp2018.
INCOSE International Symposium

Call for Tutorials

Tutorial proposals for the following types of classroom forums will be considered:

- Professional Development Tutorial: intended for both practicing Systems Engineers who want to expand their Systems Engineering skills and seasoned professionals who are new to INCOSE concepts of Systems Engineering. It is important not only to instil in the tutorial participants a new skill, but also to make it clear how that skill can add real value to the participant’s enterprise.

- Advanced Technology Tutorial: intended for practicing Systems Engineers. This introduces new technologies with potential to add real value to Systems Engineering practice, although that potential has not yet been demonstrated.

- Best Practices Implementation: intended for practicing Systems Engineers who are interested in understanding how to apply Systems Engineering best practices with a domain specific emphasis.

The following requirements and constraints apply for developing your proposal:

- The tutorial needs to be either Half Day (4 hrs) or Full Day (6-8 hrs) classroom format.
- The tutorial shall contain appropriate student exercises and interactions.
- The presenter(s) (up to a maximum of 2 per tutorial) shall document their expertise in the domain and their experience as a lecturer.
- The tutorial shall not contain a sales presentation for the presenter or the presenter’s company, and shall not contain proprietary data.
- The tutorial proposal shall explain the value of the tutorial to the attendees, follow the tutorial proposal template, be in MS Word 2003 or later format, and submitted according to the instructions on the Symposium website.

The tutorial presentation shall be in electronic form based upon Microsoft PowerPoint 2003 or later. If a tutorial is selected for inclusion in the Symposium, then the presenter(s) will be eligible for a discounted event registration rate; however, this does not include the annual INCOSE membership fee, or any other expenses. A tutorial agreement, which includes financial and cancellation agreements, will be forwarded at the time of acceptance notification.

Each tutorial submittal is reviewed by at least three members of the INCOSE review team. Evaluation criteria are found on the Symposium website.
Living in the Internet of Things Conference

The IET are joining forces with the PETRAS research hub and IoTUK to hold 'Living in the Internet of Things' - a two-day event incorporating technical paper presentations delivered by successful authors who have submitted their work for review and publication as well as an exhibition, workshops, seminars, and demonstrations workshops. This event will be taking place on 28 – 29 March 2018 at IET London: Savoy Place.

Addressing cybersecurity of the Internet of Things (IoT), this conference is a direct partnership with the PETRAS Research Hub (a consortium of nine leading UK universities working together to explore critical issues in privacy, ethics, trust, reliability, acceptability, and security) and IoTUK, a national programme designed to accelerate the UK’s IoT capability, launched as part of the Government’s £32m investment in IoT.

This inaugural conference will provide insight into how society can benefit from the power of interconnected devices while remaining safe, secure, and resilient.

The IET are very keen to work with relevant organisations to help promote this conference to the right community, and so INCOSE UK are working as a media partner of the event. The IET member registration rate has therefore been extended to all INCOSE UK members who wish to attend.

Further information can be found at http://events.theiet.org/petras/about.cfm

Call for Submissions

A call for submissions has also been extended to the INCOSE UK membership.

The Cybersecurity of the IoT event are looking for abstracts focusing on real business case studies or scenarios, innovative tools and techniques, or efforts that have concluded with an important outcome of interest.

Submissions can be made by visiting the submissions webpage, where you will also be able to download the submissions template, and find further information on the event.

The submission timeline is as follows:

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<th>Event</th>
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<td>Abstract submission deadline</td>
<td>Friday 10 November 2017</td>
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<tr>
<td>Author notification</td>
<td>Friday 8 December 2017</td>
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<tr>
<td>Full paper submission deadline (+ licence to publish)</td>
<td>Monday 15 January 2018</td>
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<tr>
<td>Author registration deadline</td>
<td>Tuesday 27 February 2018</td>
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# INCOSE UK Event Calendar

This calendar is a summary of events at the time of going to press. For the latest, up-to-date information please visit the Events page on the INCOSE UK website.

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<tr>
<th>Date/Time</th>
<th>Organisation and Location</th>
<th>Further Details</th>
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| 23rd October       | **Industry 4.0? Even More need for Systems Thinking 1.0**  
                    | **Bristol Local Group**  
                    | Atkins, The Hub, 500 Park Avenue  
                    | Bristol  
                    | BS32 4RZ  
                    | The 4th industrial revolution embraces issues around automation, digital data exchange, and "smart" systems. It includes cyber-security, virtual representation, and the Internet of Things. It's claimed it will change the world. This talk explores and discusses how the fundamental systems principles of functionality, connections, and emergence will still apply. Systems will become complex rather than complicated, and their scope and impact will expand. This implies an evolution in SE practice. At the core of this will be the need to apply Systems Thinking well, and so there will be an even greater need to overcome the barriers to Systems Thinking. |
| 21st November      | **INCOSE UK Annual General Meeting**  
                    | The Slate  
                    | Warwick University  
                    | Coventry  
                    | CV4 7SH  
                    | INCOSE UK’s Annual General Meeting (AGM) is, this year, taking place at Warwick University in conjunction with ASEC. The AGM will be announcing the new incumbents of the Council positions which are up for re-election, and gives the directors of INCOSE UK the opportunity to update the members of the Chapter on the past year and what can be expected in the coming year at INCOSE UK. Please note that attendance at ASEC is not necessary to attend the AGM. |
| 21st–22nd November | **Annual Systems Engineering Conference (ASEC)**  
                    | The Slate  
                    | Warwick University  
                    | Coventry  
                    | CV4 7SH  
                    | ASEC is INCOSE UK’s flagship event, bringing together professionals from a variety of backgrounds to build on their knowledge of Systems Engineering. For more information, please visit [www.ASEC2017.org.uk](http://www.ASEC2017.org.uk) |
| 20th–23rd January  | **INCOSE International Workshop 2018**  
                    | Hyatt Regency Jacksonville Riverfront  
                    | 225 East Coastline Drive  
                    | Jacksonville  
                    | Florida 32202  
                    | USA  
                    | INCOSE’s IW is the event of the year for systems engineers to contribute to the state of the art. Unlike the annual International Symposium and other conferences, there are no paper, panel, or tutorial presentations. Instead, attendees spend 4 days working alongside systems engineers who are there to make a difference. Systems engineers from all backgrounds are encouraged to engage in working sessions, and contribute their knowledge and experience to take the discipline forward. Please visit [http://www.incose.org/iw2018/home](http://www.incose.org/iw2018/home) for more information. |
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