

SSS'26 Programme

34th Safety-Critical Systems Symposium



10 - 12 February 2026
The Milner York, UK

The Safety-Critical Systems Club

invites all delegates to its 34th Annual Symposium

The SCSC has supported the system safety community since 1991

This year's symposium has five main themes of AI and Autonomy, Addressing Complexity, Unmanned Aerial Vehicles and Systems (UAV/UAS) and New Approaches

System safety must evolve to make best use of AI, both in development of systems and assurance of them. Ways to analyse AI and autonomous systems for safety aspects need to be established

Systems are getting ever more complex, interconnected and inter-dependent. New guidance, tools and techniques are needed to manage and assure such systems

The new SCSC **Safety Management and Safety Management Systems Working Group (SMSWG)** aims to develop a 'Handbook for Safety Managers'

Other SCSC WGs have been active, including the **Safer Complex Systems Working Group (SCSWG)** and the **Safe System Architecting Working Group**

The Safety-Critical Systems Club

About the Symposium

This is the programme for the 34th Safety Critical Systems Symposium (SSS'26) held in February 2026 at The Milner York hotel, York, UK

The Symposium is for all safety practitioners: both early career and experienced delegates are welcome

Six keynote talks from recognised experts

Three parallel streams on the Wednesday

Poster sessions

Double ticket for early-career delegates

A great opportunity to learn and develop new connections and build networks

Full workshop and tutorial programme

Working Group meet-ups

SSS'26 extends across 3 days, with presentations grouped into key themes

Symposium Banquet

Armchair chats with experts in the world of system safety

Working group updates provided by posters

Tools, Services and Recruitment Exhibition

Full proceedings volume

Mix with experts and learn new ideas that can help with career progression

Technical entertainment

Distinguished after-dinner speaker

Interactive sessions

Day 0 - Monday 9th February 2026: scsc.uk/sss

Session: Rehearsal

20:00 - 21:30	Rehearsals and soundcheck for presenters	[Optional. In main hall - for those who have not presented to a large audience before]
20:30 – 22:00	TBA	Gin Tasting Experience (TBC)

Day 1 - Tuesday 10th February 2026: scsc.uk/sss

08:30 – 10:20 **Registration with coffee and light breakfast**

10:20 – 10:30 Mike Parsons, SCSC **Welcome and Introduction**

Session: UAV and UAS

Chair: Mikela Chatzimichailidou

10:30 – 11:05 **Keynote:** Steve Wright, Wright Airborne **Staying safe from flying killer robots**

11:05 – 11:35 Bernhard Kaiser, Rüdiger Diefenbach, Matthieu Paquet, Petr Fomin, Guil-herme Goretkin, John Vergere, Tom Neely and John Macauley, Ansys **Agile Model-Based Development and Safety Assessment for Light UAVs**

11:35 – 12:05 **Coffee**

Session: Addressing Complexity

Chair: Davy Pissoort

12:05 – 12:35 James Inge, DES, Katia Potiron, KNDS, et al. **Addressing human factors in complex systems with IEC 63187**

12:35 – 13:35 **Lunch**

13:35 – 14:05 Chris Hobbs, Farmhall **Learning from Surprises in Complex Systems Guidance**

14:05 – 14:35 James Inge, DES, Katia Potiron, KNDS, Joseph Machrouh, Thales **Putting importance into context: moving from the abstract to the concrete with IEC 63187**

14:35 – 14:55 Mikela Chatzimichailidou talking to TBA **Armchair chat**

14:55 – 15:25 **Tea**

15:25 – 15:55 Jonas Wolf, Hartmut Hörner, Vector Informatik GmbH **Introducing a new complexity metric on software unit level**

15:55 – 16:30 **Keynote:** Odd Ivar Haugen, DNV **Complexity and Assurance**

Extras

16:30 – 17:30 Paul Hampton, SCSC Technical entertainment with audience participation, **'AI Don't Believe It!'**

17:45 – 20:30 **Exhibition with drinks and evening buffet meal (free for all delegates). Drinks provided by: TBA**

Day 2 - Wednesday 11th February 2026: scsc.uk/sss

	Stream A: New Approaches Chairs: Stephen Bull and TBA		Stream B: Workshops Chair: Mark Nicholson		Stream C: Tutorials & YEC Chair: Dave Banham		Stream D: Social		
08:00 – 08:30	Coffee and light breakfast								08:00 – 08:30
08:30 – 09:05	Keynote: Mikela Chatzimichailidou, University College London	Balancing Act: Navigating the Tensions Between Safety, Innovation, and Sustainability	As Stream A		As Stream A		-		08:30 – 09:05
09:05 – 09:35	Bob Oates, Cambridge Consultants	Safety in a quantum future	Keith Armstrong and Davy Pissoort, KU Leuven	Why EMC testing is not enough, and what to do about it	Peter Ladkin, Causalis	Possibility Analysis	-		09:05 – 09:35
09:35 – 10:05	Helen Monkhouse, Michael Orgill HORIBA MIRA	Automated Driving (AD) Residual Risk	Vikas Ghatge, Davy Pissoort, Dries Vanoost, KU Leuven	Ensuring Safety and Effectiveness of Medical Devices in the Presence of Electromagnetic Disturbances through a Unified EMC Assurance Case: The Risk Pattern	Possibility Analysis - continued		-		09:35 – 10:05
10:05 – 10:35	Coffee								10:05 – 10:35
10:35 – 11:10	Keynote: Harold Thimbleby, Swansea University	The MOJ will update the common law presumption that computer evidence is reliable but then what?	As Stream A		As Stream A		-		10:35 – 11:10
11:10 – 11:40	Olivier Rousse, EDF Nuclear Services	COTS computer-based devices: Qualification / safety justification needs in the nuclear industry	Divya & Martin Atkins	Data Safety and Tool Support	James Inge, DES, Katia Potiron, KNDS et al.	Developing IEC 63187	-		11:10 – 11:40
11:40 – 12:10	Laure Buysse, Mohammed Tloul, Dries Vanoost, Davy Pissoort, KU Leuven and Flanders Make	Towards Dynamic Safety Cases for Cobots: Leveraging Standards, Indicators, and Digital Twins	Data Safety and Tool Support - continued		Chris Hobbs, Farmhall	Sensitivity Analysis in a Safety Case	-		11:40 – 12:10
12:10 – 12:30	Phil Koopman talking to Roger Rivett	Armchair chat	As Stream A		As Stream A		-		12:10 – 12:30
12:30 – 13:30	Lunch								12:30 – 13:30
13:30 – 14:00	Sam Moody, EDF	Practical experience with the use of static techniques in the substantiation of safety related systems	Jeff Joyce, Adam Casey, Simon Diemert, and Laure Millet, CS Labs	Configurable Assurance Cases	Young and Early-career speakers including: Beatriz Coutinho, 3SK	5 minute ‘pitch’ talks with £100 Amazon voucher prize	Social Event 1 TBA	National Rail Museum Trip 1	13:30 – 14:00
14:00 – 14:30	Carmen Carlan, TÜV SÜD Rail GmbH (TBC)	Towards Implementing Safety Factories to Enable Agile and Continuous Delivery of Safety-critical Systems	Configurable Assurance Cases - continued		5 minute ‘pitch’ talks ... continued		Social Event 1 - continued	NRM Trip 1 - continued	14:00 – 14:30
14:30 – 15:00	Joe Hare, Leo Freitas, Ken Pierce, Patrick Degenaar Newcastle University; Callum Robinson, D-RisQ Ltd	Modelling the Requirements of a Medical Device in Kapture and Simulink	Robert Stroud, Adelard (part of NCC Group), Sam Moody, EDF Nuclear Services	Experience using static analysis tools to build confidence in safety-critical software for industrial control systems	Jonathan Pallant, Ferrous Systems	Rust Tutorial (TBC)	Social Event 1 - continued	NRM Trip 1 - continued	14:30 – 15:00
15:00 – 15:30	Bernard Twomey, Kongsberg Maritime	Maritime Autonomy – Are we making progress?	Experience using static analysis tools ... continued		Rust (TBC) - continued		Social Event 1 - continued	NRM Trip 1 - continued	15:00 – 15:30
15:30 – 16:00	Tea						Social Event 2 TBA	National Rail Museum Trip 2	15:30 – 16:00
16:00 – 16:30							Social Event 2 - continued	NRM Trip 2 - continued	16:00 – 16:30
16:30 – 17:00							Social Event 2 - continued	NRM Trip 2 - continued	16:30 – 17:00
17:00 – 18:00	Poster Session with Free Drinks								17:00 - 18:00
19:00 – 21:45	Pre-dinner drinks followed by Banquet. After-dinner speaker: Graham Braithwaite								19:00 – 21:30
21:45 – 23:00	Post-banquet Activity: York Ghost Tour								

Day 3 - Thursday 12th February 2026: scsc.uk/sss

08:00 – 08:30 **Coffee and light breakfast**

Session: AI & Autonomy 1 Chair: TBA

08:30 – 09:05	Keynote: Simon Burton, University of York	From leaps of faith to rigorous arguments: Effective and reflective assurance for AI-based autonomy
09:05 – 09:35	Abigail M. Post, David D. Woods, Martijn IJtsma, The Ohio State University	An Updatable Process to Assess Human Interaction with Artificial Intelligence and Advanced Automation Over Time
09:35 – 09:55	Tim Kelly talking to Tom Anderson	Armchair chat
09:55 – 10:25	Coffee	
10:25 – 10:55	Meaghan O'Neil, Loughborough University, Tim Watson, Turing Institute & Loughborough University; Russell Lock, Loughborough University; Patrick Baker, DSTL	Exploratory study of early adoption of generative AI in the engineering process of safety critical systems.
10:55 – 11:25	Oscar Slotosch, Validas AG	An AI-Based Tool Chain Vision for the Development of Safety Critical and Compliant Systems
11:25 – 11:55	Ben Fulford, Thomas Wilkinson, Matt Wylie, Luke Hankins, BMT	AI-assisted HAZOP: Can prompt engineering deliver a credible HAZOP assessment?
11:55 – 12:55	Lunch Lunchtime Talk @ 12:30: Carmen Carlan TÜV SÜD Rail GmbH (TBC)	A Checklist for Choosing an LLM to Support Safety Analyses

Session: AI & Autonomy 2 Chair: Carmen Carlan

12:55 – 13:25	Anne Seldon, Fortescue Zero	Exploring the Role of Large Language Models in the Development of Safety Concepts
13:25 – 13:55	Shaun Feakins, Ibrahim Habli, Phillip Morgan (SAINTS, University of York)	What's your Context? Assuring Novel Developments within General-Purpose AI for Safety-Critical Settings
13:55 – 14:25	Joshua Riley, Kez Smithson Whitehead and Matt Wylie, BMT	Towards predictive accident prevention: can retrieval augmented generation powered artificial intelligence inform preventative mitigation?
14:25 – 14:55	Tea and Posters	
14:55 – 15:25	Kelly Gasperski (MDA Space), Jeff Joyce (Critical Systems Labs), Emmanuel Lesser (MDA Space), Simon Diemert (Critical Systems Labs), Nader Abu El Samid (MDA Space), Malav Naik (MDA Space), Adam Casey (Critical Systems Labs), Paul Grouchy (MDA Space)	AI/ML Enabled Monitoring of Space Robotics Telemetry

15:25 – 16:00	Keynote: Phil Koopman, CMU	Re-imagining Safety Engineering for Embodied AI Systems
16:00 – 16:10	Mike Parsons, SCSC	Closing Remarks
16:10	Tea and networking	

Poster Session Details

Wed 11th Feb, 17:00 – 18:00

1. Lavinia Burski, AtkinsRéalis

Transforming Formal Verification: Insights from MALPAS

2. Dave Banham, QNX

Data Corruption: There is more to it than you might think...

3. James Inge, MOD

**IEC 63187 Systems engineering - System safety
Complex systems in defence programmes**

4. Jonas Wolf, Vector Informatik

Goal structuring notation tool (gsn2x)

5. Working Group Posters

6. Others TBA

Cost (see also booking form at scsc.uk/ssc)

Residential (includes 3 days in the symposium, all meals and banquet, with 2 nights in the York hotel, all handouts and symposium pack)	£1,295
Residential double ticket, as above but the second delegate must be under 35 or a full-time student .	£1,995 (for two delegates)
Non-residential in the hotel, includes lunch and refreshments each day and symposium pack. Does not include banquet (see below).	£895
Day attendance for each day includes lunch and refreshments and evening meal on the Tuesday (no accommodation, banquet extra, no pack)	£325
34 th symposium pack. Includes: • SCSC freebies: t-shirts etc • SSS'25 Proceedings book • SCSC Newsletters • Working group publications • Exhibitor Information • Symposium bag	£95
Banquet additional ticket	£55
Student / under-26 day rate (limited spaces, no accommodation)	£80 per day
Monday or Thursday night in the hotel	£195 per night
Variations, concessionary rates and extra nights in the hotels can be accommodated, please contact alex.king@scsc.uk	

Non-members are required to pay annual club membership of £149 (this is a special SSS rate, normal rate is £155 from 1st February 2026). Please see scsc.uk/membership.

Contact Alex King (alex.king@scsc.uk) for further details and concessions.

York

Come and meet with your colleagues in person! Enjoy the experience of being in the historic city of York, develop new contacts and network with colleagues. There will be special social events and a fabulous banquet experience.

This is a face-to-face event. Contact the office for non-UK online participation.

Website: scsc.uk/ssc

Further details will be emailed to registered delegates.

Registration

All enquiries to: Alex King, Tel: **01904 954830**, Email: alex.king@scsc.uk

CODE OF CONDUCT

For speakers and delegates at SCSC events please see the code of conduct:

[https://scsc.uk/file/site/SCSC Code of Conduct - Speakers and Delegates.pdf](https://scsc.uk/file/site/SCSC%20Code%20of%20Conduct%20-%20Speakers%20and%20Delegates.pdf)

CANCELLATION POLICY

Registration fees are refundable (less a £50 cancellation fee) if written notice is received by 31st December, 2025. Refunds cannot be made after this date. All refunds will be issued after the symposium.

Refunds cannot be issued due to medical reasons. Delegates are able to replace their attendance with a colleague, but only by notification in advance.

Other problems such as transport strikes or bad weather: we are bound by hotel contractual conditions and are still billed for catering and room charges, etc. Therefore, we regret that we cannot reimburse delegates in the event of these circumstances.

Phone: 01904 954830 Email: alex.king@scsc.uk, mike.parsons@scsc.uk

The full proceedings of the symposium will be given out as a hardcopy book to all in-person symposium attendees. They will also be available from the SCSC website as a PDF (for club members). Further hardcopies are available from Amazon.



Exhibitors and Sponsors

Generate New Leads

The Symposium offers a chance to connect and develop new business relationships with system safety professionals

Meet Key Decision-Makers

Understand what is driving the safety business and what safety managers needs

Keep Up-to-date

See what's on the horizon.
Stay competitive and on the leading-edge of safety

Display New Products

SSS'26 is a great platform for launching products and services. Showcase your safety products and services to an interested audience

Recruitment

Face-to-face contact with 150 safety practitioners. Discuss opportunities and attract interest.

The tools, vendor and recruitment exhibition will run from Tuesday 10th Feb and Wednesday 11th Feb 2026.

If you would like to exhibit or sponsor SSS'26, or for further details, please contact Alex King,
alex.king@scsc.uk