Tuesday 14 October 2025 • PROGRAMME

Plenary Programme 08:45 - 12:00 • Parallel Technical Sessions 13:00-17:30

08:45					PL	ENARY SESSIO	NS				
12:00	LUNCH										
	Room C1/C2	Room C3	Room C4	Room 21	Room 23	Room 24	Room 25	Room 26	Room 27	Room 35	Room 36
	Major cooperative projects	Aircraft and spacecraft technology	Drones and UAS	Drones and UAS	Structures, materials and processes	Structures, materials and processes	Propulsion	Aircraft and spacecraft systems analysis	Sustainable aerospace technology	Systems and sub-systems engineering	Systems and sub-systems engineering
CHAIR	Tomas Ireman Saab	Olle Norberg IRF	Carl-Martin Larsson Sylog Systems	Annette Wahlström FMV	Anders Blom FTF	Zlatan Kapidzic LiU	Richard Avellan GKN	Magnus Tormalm FOI	Dag Waldenström Svenskt Flyg	Petter Krus LiU	Odd Romell Saab
13:00	(KEYNOTE) R&T Development at Airbus K. Wittkowski, Airbus	RM Alpha, a Jet engine technology development plat-form. Demonstrator for collaboration between company and academia P. Andersson, GKN	Drone research for the Swedish Armed Forces L. Forssell, FOI	Drone Detection with YOLOv8 and YOLOv11: An Analysis of Accuracy and Efficiency in Embedded Systems Dr. P. Funk, MDU	Overview of Solid Mechanics research at GKIN Aerospace Sweden S. Roychowdhury, GKN	Quality control of Carbon Fiber Structures by Acoustic Method M. Gustavsson, A2 Research	Development of a Virtual Turbofan Engine in Sweden M. Lejon, GKN	Large Eddy Simulations and Computational Aeroacoustics of Supersonic Jets M. Milnaescu, KTH	Regional Sustainable Aviation for Northem Europe: Technology Choices, Demand Modelling, Environ- mental Impact, and Policy Instruments. C. Jouannet, Saab	Human Factors and HMI for Future Air Domain J. Alfredson, Saab	(KEYNOTE) How to Accelerate Next Generation Products by Leveraging Digital Mission Engineering and Model-Based Systems Engineering Methodologies R. Gemma, ANSYS
13:30	Space Sweden North - a hub for innovation J. Bergström-Roos, LTU	Cost-Driven Design of a Hybrid Electric Transport Category Aircraft E. E. Juárez, LiU	Enabling Drone Surveillance with distributed vision system J. Lindén, Saab	Automated Human-Al Interaction and Mission Planning with Unmanned Aircraft System Teams M. Wzorek, LiU	GKN Aerospace Metallic Materials Cluster Research Activities and Collaboration with Academia, Institutes and Industrial Partners S. Roychowdhury, GKN	Structural Health Monitoring methods that could be built into composite structures for multi sensing purposes P. Hallander, Saab	Hybrid Electric Turbofans from an Engine Performance Perspective F. Winkes, GKN	Towards LES for aeronautical applications – exploration of strategies for wall- modelling, accuracy and efficiency S. Arvidson, Saab	Electric-powered air traffic network with integrated aircraft-battery modelling C. Li, CTH	Designing Adaptive Systems with Run-Time Reconfigurable Architectures, I. Sander, KTH	Agile Systems Engineering: Insights from New Space Startups G Svalander, Celestra
14:00	KEYNOTE) Realizing large-scale simulation frame-works to architect future aviation systems Dr. B. Nagel, DLR	Preliminary design of a subscale floatplane E. B. Medeiros, UFMG	Development of an Ummanned Aerial Vehicle for Atmospheric Research - An International Collaboration R. Mariani, KTH	LiU Activities within the Aeronautical Prototyping and Flight Testing Lab: Mission and Activities D. Lundström, LiU	Challenges in corrosion assessment and prevention fields in the aerospace industry for the next 10 years D. Thierry, RISE	A Non-destructive Method for Evaluating Carbon Fiber Composites Using a Cost-Effective Sub- Terahertz Source and Detector E. Chuma, Unicamp	Nitrogen oxide to carbon dioxide trade-off for a hydrogen composite cycle aircraft engine A. Johansson, CTH	Large Eddy Simulations of a supersonic jet exhausting a Rotating Detonation Combustion chamber T. Golliard, KTH	Airport electrification and electromagnetic emissions – standards and challenges T. Salm, LTU	The Large Language Model Pilot: Generative Artificial Intelligence for Cyber-Physical Flight Simulations J. Lovaco, LiU	Amplitude and Phase Imbalance Calibration for Space-Based Precision Direction Finding Systems J. Melo, ITA
14:30	CONCEPTIO: Laboratory Architecture for Conceptual Research of Multi-domain Systems C. Cerqueira, ITA	Mission Planning and Decentralized Execution for Heterogeneous Teammates in Dynamic Environments E. Olsson, Saab	Development of Control Contraction Metric based methods on non- conventional aircraft configuration J. A. Pardo, INTA		Advanced Structural Optimization for Aerospace Applications M. Wallin, LTH	Graphene nanoplatelet- reinforced polymer composites for multifunctional coatings in aerospace applications D. Carastan, UFABC	On the coupled integration of ducted heat-exchanger systems for aviation E. Hasselwander, CTH	The NATO Aerodynamic Missile Challenge M, Tormalm, FOI	Enabling the Decarbonization of Regional Air Transport with Series Hybrid Electric Propulsion D. Bermperis	Impact of HUD Design on Cognitive Load in UAV Control I. Rehder, ITA	Comparing Methods for Damage Localization in Active Structural Health Monitoring Using Piezoelectric Sensors on Composite Plates G. C. Batista, KTH
15:00						COFFEE BREAK					
	Room C1/C2	Room C3	Room C4	Room 21	Room 23	Room 24	Room 25	Room 26	Room 27	Room 35	Room 36
	Major cooperative	Aircraft and	Drones and UAS	Systems and	Structures,	Churchines	Dunandalan	Aircraft and	Sustainable	Contains and	Systems and
	projects	spacecraft technology		sub-systems engineering	materials and processes	Structures, materials and processes	Propulsion	spacecraft systems analysis	aerospace technology	Systems and sub-systems engineering	sub-systems engineering
CHAIR			Carl-Martin Larsson Sylog Systems	sub-systems	materials and processes Sushovan Roychowdhury GKN	materials and processes Zlatan Kapidzic LiU	Richard Avellan GKN	spacecraft	aerospace	sub-systems	sub-systems
CHAIR 15:30	projects Tomas Ireman	technology Olle Norberg	Carl-Martin Larsson	sub-systems engineering Christina Ahremark	materials and processes Sushovan Roychowdhury GKN Effect of Nitriding on High Grade 5 Alloy S. Stekovic, LIU	materials and processes Zlatan Kapidzic LiU	Richard Avellan	spacecraft systems analysis Magnus Tormalm	aerospace technology Dag Waldenström	sub-systems engineering Mats-Olof Olsson	sub-systems engineering Odd Romell
-	projects Tomas Ireman Saab (KEYNOTE) Platform to facilitate collaborations between innovation ecosystems M, Ahlsträm, CISB/Saab Building Bridges in the Aerospace sector. Brazil's Model for International Cooperation and Funding Mechanisms Dr. O. Ceelho, MCTI	technology Olle Norberg IRF Smart technology road mapping applied in defense aviation	Carl-Martin Larsson Sylog Systems Defining Future Application Scenarios for Heterogeneous Teams: a Capability-based Approach	sub-systems engineering Christina Ahremark FM Cognition and Computation in Decision-Making: Applying the Critical Decision Method of Artificial Intelligence for Aviation Event Analysis	materials and processes Sushovan Roychowdhury GKN Effect of Nitriding on High Cycle fatigue of Ti64 Grade 5 Alloy	materials and processes Zlatan Kapidzic LiU Effect of Indued Delamination Defects on the Mechanical Performance on Composite Laminates A. Giannakopoulou, LiU Advanced Thermal Spray Coatings for Improved Engine Performance M. Gupta, UW	Richard Avellan GKN Aerothermal performance of an open-source methane fuelled rocket engine	spacecraft systems analysis Magnus Tormalm FOI Adaptive Euler - efficient and predictive aerodynamics: validation and development in the High Lift and Aeroelastic prediction workshops	aerospace technology Dag Waldenström Svenskt Flyg Technical concepts of airport infrastructure for charging battery-powered electric aircraft	sub-systems engineering Mats-Olof Olsson FOI Towards Seamless System Design from Specification Model to Implementation I. Sander, KTH MATE: A Mission Assistant for Training and Evaluation Using an Offine Language Model in Air Combat Operations J. Dantas, ITA	sub-systems engineering Odd Romell Saab Active Microwave Components for Next Generation Airbome Sensor and Communication Systems
15:30	projects Tomas Ireman Saab (KEYNOTE) Platform to facilitate collaborations between innovation ecosystems M, Ahistrôm, CISB/Saab Building Bridges in the Aerospace sector international doperation and Funding Mechanisms	technology Olle Norberg IRF Smart technology road mapping applied in defense aviation P. Ulfvengren, KTH Improving System Safety in Aviation: Supporting STPA with Al Models A. E. A. do Silva,	Carl-Martin Larsson Sylog Systems Defining Future Application Scenarios for Heterogeneous Teams: a Capability-based Approach Carlos Ribeiro, ITA A New Multi-Agent Simulator Fram-work Using Hopsan and Unreal 5.3	sub-systems engineering Christina Ahremark FM Cognition and Computation in Decision- Making, Applying the Critical Decision Method for Availation Event Analysis G. De Morais, ITA Context of Collegary Lineary Context of Collegary Lineary L	materials and processes Sushovan Roychowdhury GKN Effect of Nitriding on High Cyde fatigue of 1764 Grade 5 Alloy S. Slekovic, LIU Is it Damage, Plasticity, Rate Dependence or all of the Above? Characteriang and Modelling the Non-Linear Behaviours of 30-Textile Composities	materials and processes Zlatan Kapidzic LiU Effect of Induced Delamination Defects on the Mechanical Performance on Composite Laminates A. Glamakopoulou, LiU Advanced Thermal Spray Coatings for Improved Engine Performance	Richard Avellan GKN Aerothemal performance of an open-source methane fuelled rocket engine A. C. Patrao, GKN Re-entry flow and aerothermal characteristics of a retro- propulsive booster	spacecraft systems analysis Magnus Tormalm FOI Adaptive Euler - efficient and predictive aerodynamics: validation and development in the High Lift and Aeroelastic prediction workshops J. Jansson, KTH Numerical Study on the Aerodynamics of Conformal Weapons on Fishter Aircraft	aerospace technology Dag Waldenström Svenskt Flyg Technical concepts of ariport infrastructure for charging battery-powered electric aircraft S. Käck, VTI Contrail avoidance: Decision making under uncertainty	sub-systems engineering Mats-Olof Olsson FOI Towards Saamless System Design from Specification Model to Inplementation I. Sander, KTH MATE: A Mission Assistant for Training and Coffline Language Model In All Combat Operations	sub-systems engineering Odd Romell Saab Active Microwave Components for Next Generation Airborne Sensor and Communication Systems M. Thorself, Saab Distributed radar on multiple airborne platforms – challenges and solutions
15:30	projects Tomas Ireman Saab (KEYNOTE) Platform to facilitate collaborations between innovation ecosystems M. Aniström, CISB/Saab Building Bridges in the Aerospace sector: Brazi's Model for International Cooperation and Funding Dr. O. Coelho, MCTI (KEYNOTE) German International Aeronautics Research Projects	technology Olle Norberg IRF Smart technology road mapping applied in mapping applied in mapping applied in defense aviation P. Uffivengren, KTH Improving System Safety in Aviation: Supporting STPA with Al Models A. E. A. da Silva, UNICAMP Aerodynamic Optimization of SOAR2 – A successful case study in fostering young researchers researchers	Carl-Martin Larsson Sylog Systems Defining Future Application Scenarios for Heterogeneous Teams: a Capability-based Approach Carlos Riberto, ITA A New Multi-Agent Simulator Frame-work Using Hopsan and Urreal 5.3 A. G. P. Sarmento, ITA INNITE (VCndf Aeronautics: Swedish Hejh-Capacity Tillirotor UAS and eVTOL Innovation	sub-systems engineering Christina Ahremark FM Cognition and Computation in Decision- Making: Applying the Critical Decision Method to Artificial Intelligence for Availation Event Analysis C. De Morals, ITA Context of collaborative human-machine systems architecture design for enhanced functionality awareness and balanced command and control authority V. K. Marini, UFSM	materials and processes Sushovan Roychowdhury GKN Effect of Nitriding on High Cyde fatigue of Ti64 Grade 5 Alloy S. Stekovic, LIU Is it Damage, Plasticity, Rate Dependence or all of the Above? Character Nov-Linear Behaviours of 3D-Textile Composites C. Oddy, GKN Characterization of fatigue-critical proghress parameter in electron beam powder bed fusion manufactured Ti-6AI-4W	materials and processes Zlatan Kapidzic LiU Effect of Induced Delamination Defects on the Mechanical Performance on Composite Laminates A. Giarnakopoulou, LiU A. Giarnakopoulou, LiU Advanced Thermal Spray Coalings for Improved Engine Performance M. Copte, UW Supporting Design for Additive Manufacturing; Insights from Product Development Practices in the Aerospace Industry	Richard Avellan GKN Aerothermal performance of an open-source methane fuelled rocket engine A. C. Patrao, GKN Re-entry flow and aerothermal characteristics of a retro- propulsive booster A. Rovelstad, CTH Aerodynamic Damping in Separated Flows - Project Summay	spacecraft systems analysis Magnus Tormalm FOI Adaptive Euler - efficient and predictive aerodynamics. validation and development in the High Lift and Aeroelastic Aeroelastic Conformal Weapons on Fighter Aircraft B. Hamad, FOI Aerodynamic Stefficiency of Longitudinally Unstable Talless Aircraft	aerospace technology Dag Waldenström Svenskt Flyg Technical concepts of airport infrastructure for charging battery-powered electric aircraft S. Käck, VTI Contrail avoidance: Decision making under uncertainty F. Herbertsson, CTH Technology Assessment of Sustainable Propulsion Addressing Technical Challenges	sub-systems engineering Mats-Olof Olsson FOI Towards Seamless System Design from Specification Model to Implementation I. Sander, KTH MATE: A Mission Assistant for Training and Evaluation Using an Offline Language Model in Air Combat Operations J. Dantas, ITA Improving Decision Making of Civilian and Military Pilots Under Pressure: An Artificial Intelligence-Based Approach Using Pressure	sub-systems engineering Odd Romell Saab Active Microwave Components for Next Generation Airborne Sensor and Communication Systems M. Thorself, Saab Distributed radar on multiple airborne platforms – challenges and solutions P. Dammert, Saab On Low Probability of Intercept and Low Probability of detection (LPLPP) CPLIPP) CAITCHORD
15:30 16:00	projects Tomas Ireman Saab (KEYNOTE) Platform to facilitate collaborations between innovation ecosystems M, Ahiström, CISB/Saab Building Bridges in the Aerospace sector. Brazil index sector. Brazil international Cooperation and Funding Mechanisms Dr. O. Coelho, MCTI (KEYNOTE) German International Cooperation in Funded Aerospace sector. (KEYNOTE) (INDITE) (technology Olle Norberg IRF Smart technology road mapping applied in mapping applied in mapping applied in defense aviation P. Uffivengren, KTH Improving System Safety in Aviation: Supporting STPA with Al Models A. E. A. da Silva, UNICAMP Aerodynamic Optimization of SOAR2 – A successful case study of industry and academia in fostering young researchers P. Eliasson, Saab Convolutional Neural Network for Detection and Quantification of Pitch-Induced Oscillations	Carl-Martin Larsson Sylog Systems Defining Future Application Scenarios for Heterogeneous Teams: a Capability-based Approach Carlos Riberto, ITA A New Multi-Agent Simulator Frame-work Using Hopsan and Urreal 5.3 A. G. P. Sarmento, ITA INNITE (VCndf Aeronautics: Swedish Hejh-Capacity Tillirotor UAS and eVTOL Innovation	sub-systems engineering Christina Ahremark FM Cognition and Computation in Decision- Making: Apping the Apping	materials and processes Sushovan Roychowdhury GKN Effect of Nitriding on High Cycle fatigue of Ti64 Grade 5 Alloy S. Stekovic, LIU Is it Damage, Plasticity, Rate Dependence or all of the Above? Characterising and Modelling the Non-Linear Behaviours of 20 Textilic Composites C. Oddy, GKN Characterization of fatigue-critical roughness parameter in electron beam powder bed lission may be an expense to the Characterization of fatigue-critical roughness parameter in electron beam powder bed lission R. T. Pandian; UW Advancing Wire Arc Additive Manufacturing: Solidina for industry Apolications for Industry Apolications for Industry Apolications and Industry Apolications for Industry Apolications for Industry Apolications and Industry Apolications for Industry Apolications Industry Indu	materials and processes Zlatan Kapidzic LiU Effect of Induced Delamination Defects on the Mechanical Composite Laminates A. Glannakapoulou, LiU Advanced Thermal Spray Coatings for Improved Engine Performance M. Gupta, UW Supporting Design for Additive Manufacturing; Insights from Product Development Practicust Insights from Product Development Practicust Development Practicus Development Practi	Richard Avellan GKN Aerothermal performance of an open-source methane fuelled rocket engine A. C. Patrao, GKN Re-entry flow and aerothermal characteristics of a retro- propulsive booster A. Rovelstad, C7H Aerodynamic Damping in Separated Flows - Project Summany N. Glodic, KTH RAVEN's Design and Testing of a Student Researched and Developed Hybrid Rocket Propulsion System	spacecraft systems analysis Magnus Tormalm FOI Adaptive Euler - efficient and predictive aerodynamics: validation and development in the High Lift and Aeroelastic prediction workshops J. Jansson, KTH Numerical Study on the Aerodynamics of Conformal Weapons on Fighter Aircraft B. Hamad, FOI Aerodynamic Efficiency of Longitudinally Unstable Tailless Aircraft S. Riethausen, LIU The role of fluid-structure interaction in the prediction of cabin noise bayes	aerospace technology Dag Waldenström Svenskt Flyg Technical concepts of airport infrastructure for charging battery-powered electric aircraft S. Käck, VTI Contrail avoidance: Decision making under uncertainty F. Herbertsson, CTH Technology Assessment of Sustainable Propulsion Addressing Technical Challenges	sub-systems engineering Mats-Olof Olsson FOI Towards Seamless System Design from Specification Model to Implementation I. Sander, KTH MATE: A Mission Assistant for Training and Evaluation Using an Old Air Combat Operations J. Dantas, ITA Improving Decision- Making of Civilian and Military Pilots Under Pressure: An Artificial Intelligence-Based Approach Using Prospect Theory G. De Morals, ITA Augmenting Aerospace System Design Using Large Language Models	sub-systems engineering Odd Romell Saab Active Microwave Components for Next Generation Airborne Sensor and Communication Systems M. Thorself, Saab Distributed radar on multiple airborne platforms – challenges and solutions P. Dammert, Saab On Low Probability of Intercept and Low Intercept and Low Communication for Airborne Collaborative Systems B. Granhom, Saab B. Granhom, Saab B. Granhom, Saab

2025

SWEDISH AEROSPACE ← AT THE CROSSROADS

PLENARY PROGRAMME • Tuesday 14 October

- 08:45 The growing importance of aerospace research in meeting global challenges
 Sara Modig, State Secretary, Ministry of Climate and Enterprise, Sweden
- 09:00 Towards efficient disruptive technologies for new aircraft in service by 2035
 Sébastien Dubois. Clean Aviation IU. Belaium
- 09:25 The Airbus runway to sustainable aviation
 Frank Haselbach, SVP Propulsion, Airbus, France
- 09:50 Joining the quest towards a climate neutral aviation system a perspective from the Netherlands

Ron van Manen, Director Stichting Luchtvaart in Transitie, The Netherlands

- 10:15 COFFEE BREAK
- 10:45 Challenges to aviation and candidate propulsion solutions
 Henrik Runnemalm, VP Global Technology Centre, GKN Aerospace
- 11:10 ICAS an evolution in perspectives

 Chris Atkin, ICAS President, Professor Univ. of East Anglia, UK
- 11:35 Al on wings the new era of Air Combat
 Peter Nilsson, Head of Advanced Programs, Saab Aeronautics

12:00 LUNCH

PLENARY PROGRAMME • Wednesday 15 October

- 13:00 Swedish Aerospace Research and Innovation Defence perspectives

 Anders Persson, Head of Division at the Ministry of Defence, Sweden
- 13:15 Sweden's Space Endeavors

 Ella Carlsson. Director General. Swedish National Space Agency
- 13:40 Exploring the Solar System, a Swedish perspective on Space Science
 Olle Norberg, Director General, IRF-Swedish Institute of Space Physics
- 14:05 Swedish Air Force in the future
 - Jonas Wikman, Commander Swedish Air Force
- 14:30 COFFEE BREAK
- 15:00 Swedish Concept Air Programme

Carl-Fredrik Edström, Director Air and Space Systems Division FMV

15:25 C390 and Brazil-Sweden cooperation

Walter Pinto Jr, COO Embraer Defence & Security, Brazil

15:50 Aeronautical research at Saab and within the Swedish ecosystem – challenges and possibilities

Per-Olof Marklund, Director Head of Technology and Innovation, Saab

16:15 Summing up and closing (end 16:30)

Svjetlana Stekovic, Senior Associate Professor, Linköping University.

Dr. Roland Karlsson, Chair, Swedish Society of Aeronautics and Astronautics

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Wednesday 15 October 2025 • PROGRAMME

Parallel Technical Sessions 08:30-12:00 • Plenary Programme 13:00 - 16:30

	Room C1/C2	Room C3	Room C4	Room 21	Room 23	Room 24	Room 25	Room 26	Room 27	Room 35	Room 36
	Major cooperative projects	Aircraft and spacecraft technology	Drones and UAS	Aeronautical education	Structures, materials and processes	Structures, materials and processes	Propulsion	Aircraft and spacecraft system analysis	Operational availability, maintenance and support	Systems and sub-systems engineering	Systems and sub-systems engineering
CHAIR	Tomas Ireman Saab	Olle Norberg IRF	Carl-Martin Larsson Sylog	Petter Krus LiU	Sushovan Roychowdhury GKN	Svjetlana Stekovic LiU	Richard Avellan GKN	Magnus Tormalm FOI	Olle Bååthe Systecon	Mats-Olof Olsson FOI	Annette Wahlström FMV
08:30	The Swedish Aeronautical Research and innovation Agenda- NRIA 2024 M, Olofsson, Innovair	Flight control investigation using a 3D- printed radio-controlled demonstrator R. Larsson, Saab	Skeldar V-200 – The Multi-Purpose Unmanned Vertical Take Off and Landing System T. Karlsson, Saab	From Classroom to Competition: Linköping University's Engagement in SAE AeroDesign Brazil D. Lundström, LiU	Design and Implementation of a Digital Twin for Welded Aero Structures H. Hultman, GKN	Data Driven Enhanced Process Monitoring for Direct Energy Deposition S. K. D. Wejletorp, GKN	Elements of Cycle Design for Parallel Hybrid Mixed Flow Turbofans: Select Trade-Offs in Performance and Energy Efficiency L. Carrea, MDU	Numerical investigation of the flow over low- pressure turbine blades with end walls V. Baconnet, KTH	Success Factors for Large Scale Implementation of Digital Twins J. Vallhagen, GKN	Redundant Digital Hydraulic Actuators for Flight Control Surfaces V. J. De Negri, UFSC	A Review of Energy Management in the Context of On-Board Systems Aircraft Integration E. EJuárez, LiU
09:00	The Potential of Spillovers – reflections from the Aerospace Industry J. Holtström, LiU	Experimental Evaluation of Classical Washout Filter Configurations for Fighter Jet Motion Cueing E, Villani, ITA	Air Traffic Management Research to Improve Safety Integration of Unmanned Aircraft into the Sky of Florianópolis L. Kroon, Saab J. Lundberg, LiU	Student aircraft for international competition: A complement to the theoretical education P. Miltén, CTH	Demonstration of a Sustainable Inductive Hot Forming Concept E-L. Westman, RISE	In-Operando Machining of Difficult-to-Cut Aerospace Materials Using Large-Scale Infrastructure Facilities H. Boyle, LiU	Design Considerations for the Fan on Blade Component E. Ellénius, CTH	Exploratory testing of sloshing effects in an external drop tank on a dynamically scaled delta wing A. Ellmo, Saab	Mission Engineering: Combining Real-Time Data, Simulation and Evolutionary Algorithms to Maximize Mission Success A.Nyberg, Systecon	HILA-MR - An actuator with morphing wing capability M. Landberg, Saab	On Early Product Development in the Context of Aircraft Thermal Management Design A. Drego, Saab
09:30	A summary of GKN Aerospace's contribution to the two-spool compressor rig project in Clean Sky 2 M. Lejon	Blackwing – Always at the crossroads B. Moberg, Blackwing	The Eco-system of Air Mobility C. Lindholm, Saab	Collaborating for Future Skills in Sustainable Aeronautics A. Öhrwall Rönnbäck, SARC	Fracture Mechanics Simulation of Weld Geometry Influence on Fatigue Life in Aerospace Components E. Ferdeen, KTH		DARLING: Damaged and Repaired Blade Modelling with In-situ Repairs C. Rotundo, KTH	Numerical investigation of dynamic stall on wings following curved trajectory Y-C. Lu, KTH		Scheduling Strategies for HILA-MR Actuation Technology in Unmanned Aircraft R. Braun, LiU	
10:00						COFFEE BREAK	(
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CHAIR	Tomas Ireman Saab	Olle Norberg IRF	Carl-Martin Larsson Sylog	Christina Ahremark FM	Sushovan Roychowdhury GKN	Svjetlana Stekovic LiU	Richard Avellan GKN	Magnus Tormalm FOI	Olle Bååthe Systecon	Mats-Olof Olsson FOI	Odd Romell Saab
10:30	(INVITE) Aeronautical Innovation – Swedish and International Perspectives A. Blom, FTF	GenHEX: A new heat exchanger design framework P. Miltén, CTH	Dynamic Multi-Drone Route Planning with Uncertainty and Constraints (DyMuDRoP) A. Sow, LiU	Do we have the right competencies for the future? Experiences from large-scale industrial use of the INCOSE competency framework E. Herzog, Saab	Finite Element Implementation of a Continuous-Time, High- Cycle Fatigue Model Z. Kapidzic, Saab	Thermo-Mechanical Behaviour in Laser Powder Bed Fusion Inconel 939 – Aerospace Applications and Component Relevant Testing J. Rouse, UoN	HEAVEN: Hydrogen Engine Architecture Virtually Engineered Novelly-Technology development at The University of Nottingham C. Bennett, UoN	Prediction of an airplane infrared signature; from the drawing board to validation based in-flight tests M. Dalenbring, FOI	Quantum-Enhanced Predictive Maintenance for Aerospace Robotic Arms G. Petronilo, UFPA	Logic-Based Benders Decomposition for Joint Routing and Scheduling of TSN networks in Avionics J. Vines, LIU	Design and analysis of time-critical parallel applications on heterogenous avionics platforms M. Becker, KTH
11:00	(INVITE) A metadata investigation of the aircraft accident at Ndola on 18 September, 1961 R. Karlsson, FTF	Conceptual Study of Launch Abort System and Capabilities for the Nyx Earth Crew Spacecraft S. Mohrdieck, KTH	Robust GNSS-free drone navigation M. Stem, I-CONIC Vision	Supersonic transport: a way to create student interest for aerospace education T. Grönstedt, CTH	Weld solidification cracking susceptibility of new Ni-based superalloy VDM Alloy 780: comparison to Alloy 718 A. Ariaseta, UW	Thermo-Mechanical Fatigue Resistance of Forged and Additively Manufactured Inconel 718 N. Nordström, CTH	Experimental and numerical study on the acoustic resonance behaviour of compressor bleed cavities in aero- engines S. Hammer, KTH	Bayesian Networks Applied to Risk Modelling of De-pressurized Flight at High Altitude M. Cardoso, ITA	How Artificial Intelligence (AI) is Transforming the Aviation Industry Dr. P. Funk, MDU	Task and Motion Planning for Autonomous Military Aircraft Mission Management R. Forsling, Saab	Front-End design for a scalable and reconfigurable Structural Health Monitoring system L. B. Trujilho, ITA
11:30		Legion, a new 30cm constellation of EO satellites and the use of very high resolution data. P. Lundblad, Maxar	Impact and Capacity Assessment Framework for U-space Societal Acceptance M. Chellapurath, KTH		Compressive Strength of Half-Hole Pin Bearing Laminated Carbon Fibre Specimens H. Wemming, Saab	TMF (Thermo- mechanical fatigue) Testing: Generating Critical Data for Aerospace Components Y. Ma, Rolls-Royce	Efficient and robust electric machines and control systems for integration in jet engines M. Collins, LTH			Interdisciplinary human- in-the-loop simulation framework for evaluation of actuation system concepts A. Dell'Amico, Saab	Robust Heart Rate Estimation from Deep Learning Data Fusion using Multimodal Sensors E. Chuma, UNICAMP
12:00		LUNCH									
13:00					PL	ENARY SESSIO	NS				
14:30		COFFEE BREAK									
15:00		PLENARY SESSIONS, SUMMARY									

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The 12th Swedish Aerospace Technology Congress October 14-15, 2025



PARTNERS















EXHIBITORS





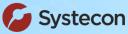


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