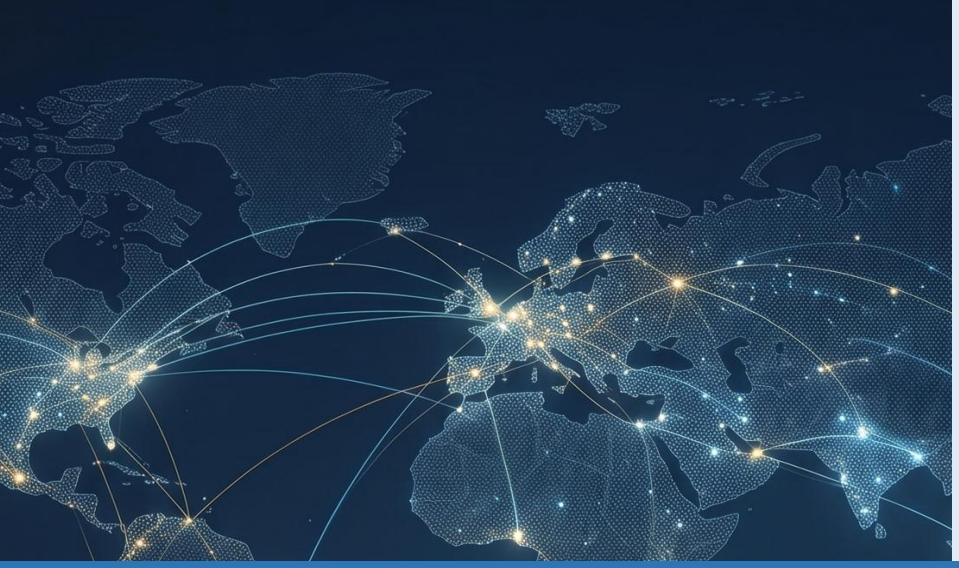


2026

Conference programme



9th International Scientific and Technical Conference

"Safety Management in Transport, Techniques, Technologies and Policy"

18–20 November 2026

Silesian University of Technology, Faculty of Transport and Aviation Engineering, Department of Air Transport

PROGRAMME

9th International Scientific and Technical Conference
"Safety Management in Transport, Techniques, Technologies and Policy"

18–20 November 2026

Hotel Skalite Spa & Wellness

4 Krokusów Street, Szczyrk, Poland

CONFERENCE DAY 1

18.11.2026 (WEDNESDAY)

11^{30} – 13^{00}	Hotel check-in
11^{30} – 13^{00}	Conference registration
13^{00} – 14^{30}	Lunch

15^{00} – 15^{10} – Official opening and welcome address

Vice-Rector for General Affairs of the Silesian University of Technology
Professor Bożena Skołud

Vice-Dean for Student Affairs and Education, Faculty of Transport and Aviation Engineering
Professor Damian Hadryś

Head of the Department of Air Transport and Chair of the Scientific Committee
Professor Jarosław Kozuba

PLENARY SESSION

SESSION CHAIRS

Prof. Jarosław Kozuba

Prof. Piotr Niedzielski

15^{10} – 15^{30}	**Paweł Wojda**
	Prospects for the development of Katowice-Pyrzowice International Airport
15^{30} – 15^{50}	**Iryna Zarubinska, Professor Vice Rector for International Development and Civil Aviation**
	New approaches to ensuring flight safety in the face of modern threats: ICAO requirements and priorities for Ukraine
15^{50} – 16^{10}	**Vazha Kelikhashvili**
	Real-time multi-parameter monitoring and diagnostics of a small-diameter propeller system
16^{10} – 16^{30}	**Linda Zhou**
	Integrating digital simulation with industry-focused education to develop safety-oriented professionals for unmanned aircraft systems (online)
16^{30} – 16^{50}	**Andrzej Fellner, Radosław Fellner, Robert Wieszała**
	Mobile command centres, satellite technology, unmanned aerial systems and anti-drone measures as elements of public safety
16^{50} – 17^{00}	DISCUSSION
17^{00} – 17^{15}	COFFEE BREAK
17^{30} – 17^{50}	**Tadeusz Gembski**
	The legal framework governing civil aviation in the European Union
17^{30} – 17^{50}	**Stepan Savchuk, Władysław Kerker, Kamil Krasuski**
	Monitoring the operation of autonomous navigation using the Galileo HAS Service
17^{50} – 18^{10}	**Vitaly Dudnik**
	Expected control system forces for unmanned helicopters
18^{10} – 18^{30}	**Sergiy Ponomarenko, Oleksandr Sieliukov**
	Heavy-lift multicopter-type unmanned aerial vehicles for transport and specialized tasks
18^{30} – 18^{50}	**Dmytro Shevchuk, Artur Viniukov-Proshchenko**
	The air carrier business model as a key factor in strategic decision-making
18^{50} – 19^{10}	**Piotr Niedzielski**
	Occupational safety of personnel carrying out servicing and maintenance work on motorways and expressways in Poland: selected aspects

20^{00} – GALA DINNER

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CONFERENCE DAY 2
19.11.2026 (THURSDAY)

7^{00} – 9^{00} BREAKFAST

9^{00} – 10^{30}	SCIENTIFIC SESSION
Session chairs	**Prof. Jarosław Kozuba, Dr Tomasz Wojnar**
9^{00} – 9^{05}	Introduction by Professor Jarosław Kozuba
9^{05} – 9^{20}	**Marian Jakoniuk, Krzysztof Pawełek** LPD-1 'Student' Flying Training Platform – enclosure for the drive system, application UL-2 standards
9^{20} – 9^{35}	**Vitaly Dudnik, Michał Żuk** General loading conditions of the LPD-1 'Student' Flying Training Platform
9^{35} – 9^{50}	**Krzysztof Targosz, Adam Gargula** Structural strength of the aerodynamic surfaces of the LPD-1 'Student' Flying Training Platform
9^{50} – 10^{05}	**Tomasz Wojnar, Diane Nkurunziza** Control system for the LPD-1 'Student' Flying Training Platform
10^{05} – 10^{15}	**Wawrzyniec Panfil, Wiktor Kozłowski, Nikodem Nokielski, Tomasz Golinowski** The avionics and autopilot systems of the LPD-1 'Student' Flying Training Platform
10^{15} – 10^{30}	**Krzysztof Pawełek, Wiktor Pikuła, Bartosz Pajek, Sławomir Kłos** Engines for 'dual-use' applications – UAVs.

10^{30} – 10^{45} COFFEE BREAK

10^{45} – 13^{45}	SCIENTIFIC SESSION
Session chairs	**Prof. Aleksander Król, Dr Tomasz Wojnar**
10^{45} – 11^{00}	**Jarosław Kozuba, Marzena Piotrowska-Trybull, Stanisław Sirko, Wawrzyniec Panfil** Airports in Poland from the perspective of stakeholders (online)
11^{00} – 11^{15}	**Viacheslav Matsiuk, Serhii Tsyhanii, Anton Kalambet, Olga Pryimuk, Alina Nechyporuk** Multi-agent simulation of cargo consolidation and deconsolidation processes in road–air freight transport
11^{15} – 11^{30}	**Oleksandr Zbrutskyi, Anatoliy Dovhopoliy, Anton Zagirskyi, Anton Krasnopolskyi, Valentyn Stepanenko** (online) A combined autonomous robotic transport system
11^{30} – 11^{45}	**Borys Syta, Robert Rogólski, Stanisław Kachel** An analytical and statistical method for automated preliminary aircraft sizing based on a given mission profile
11^{45} – 12^{00}	**Artur Viniukov-Proshchenko, Iryna Borets, Alla Valko, Larysa Dokiienko, Artem Shcherban** Aircraft health management: a new air transport safety paradigm for MRO centres' supply-chain management
12^{00} – 12^{15}	**Andrii Steniakin** Evaluating the impact of adaptive traffic signal control on intersection capacity and road safety risks using microscopic simulation
12^{15} – 12^{30}	**Andrzej Kubit, Jacek Nowiński, Dorota Chodorowska** Preliminary analysis of adhesive workholding for machining an aircraft engine component made of Inconel 716 using the Blue Photon UV-curable adhesive system
12^{30} – 12^{45}	**Aleksander Król** A numerical study of aircraft cabin evacuation during a power bank fire
12^{45} – 13^{00}	**Kostiantyn Cherednichenko** Intelligent model for assessing external threats to transport hubs under wartime conditions
13^{00} – 13^{15}	**Mykhailo Levchenko** Assessment of the structural resilience margin of freight flow management in an urban transport and logistics hub
13^{15} – 13^{30}	**Magda Mrozik, Jarosław Kozuba, Kamil Krasuski, Ewelina Kobiałka, Piotr Miduch** Assessment of UAV positioning accuracy using EGNOS and SDCM corrections

13^{30} – 13^{45} DISCUSSION

14^{00} – 15^{00} LUNCH

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15^{00} – 17^{30}	SCIENTIFIC SESSION
Session chairs	Prof. Jan Warczek, Dr Michał Miros
15^{00} – 15^{15}	**Jakub Wciseł, Wiktoria Rydz, Luiza Szerszeń, Marta Żuchora, Piotr Miduch** Dynamics and statistical correlations between solar flares and CMEs, 2020–2026, based on NASA DONKI data
15^{15} – 15^{30}	**Kamil Krasuski, Mieczysław Bakuła** Analysis of GPS/EGNOS positioning quality parameters under jamming conditions
15^{30} – 15^{45}	**Zuzanna Nowak, Małgorzata Kirschenstein, Jarosław Kozuba** Analysis of jet streams in the context of transatlantic flight planning at LOT Polish Airlines, 2019–2023 (online)
15^{45} – 16^{00}	**Krzysztof Marian Tomiczek** Selected aspects of GIS and geoinformatics in the context of natural disaster risk (online)
16^{00} – 16^{15}	**Alexander Zgurovsky, Maksim Głacki, Oleksandr Romaszko** Where academia meets aerospace: seven years of university–industry partnership in Poland (online)
16^{15} – 16^{30}	**Yevhenii Shkvar** Flight safety increasing and improving the aerodynamic characteristics of high-speed transport based on bionically inspired principles (online)
16^{30} – 16^{45}	**Wawrzyniec Panfil, Szymon Szwajca, Amanullah Chowdhury, Jakub Żymełka** Enhancing high-altitude UAV performance through wingspan optimisation and detachable auxiliary propulsion
16^{45} – 17^{00}	**Mateusz Urzędowski** Air traffic volume and reported infringements of separation minima in Europe, 2020–2025
17^{00} – 17^{15}	**Sławomir Bucki, Jerzy Margielewicz, Tadeusz Opasiak, Tomasz Haniszewski, Damian Gąska** Nonlinear energy harvesting systems for vibration monitoring and safety of transport vehicles and transport infrastructure
17^{15} – 17^{30} – DISCUSSION	

17^{30} – 17^{45} COFFEE BREAK

17^{45} – 20^{00}	SCIENTIFIC SESSION
Session chairs	Prof. Damian Hadryś, Dr Ewa Kałużna
17^{45} – 17^{55}	**Bidzina Abesadze, Giorgi Takadze** Acoustic monitoring of airflow inhomogeneity and contaminants in aircraft engines
17^{55} – 18^{05}	**Nika Tabatadze, Bichiko Mazanishvili, Andro Maisuradze, Vazha Kelikhashvili** Analysis of electrostatic particle separation for dust protection in aircraft gas-turbine engines
18^{05} – 18^{25}	**Damian Hadryś, Karolina Sulima, Wioletta Cebulska** Clinching as a joining method used in the construction of means of transport
18^{25} – 18^{35}	**Wiktor Kozłowski, Marek Marcisz, Wawrzyniec Panfil, Robert Wieszała, Jarosław Kozuba** Concept of a UAV system for point-by-point measurement of water-flow velocity in ssurface watercourses
18^{35} – 18^{45}	**Eugeniusz Piechoczek, Mirosław Jemielniak** Design and verification of a model supporting maintenance processes through the use of alternative technical solutions for crewed aerial platforms
18^{45} – 18^{55}	**Michał Miros, Rafał Sieńko, Marek Zawalski** Multi-layered protection of aviation infrastructure: passive fibre-optic detection and modular ballistic shields
18^{55} – 19^{05}	**Rafał Sieńko, Artur Miros, Marek Zawalski** Passive fibre-optic microphones in the monitoring of threats to aviation infrastructure
19^{05} – 19^{15}	**Jakub Młyńczak, Szymon Surma, Mateusz Jurczak, Jerzy Łukasik** Safety at level crossings: problems and challenges
19^{15} – 19^{25}	**Piotr Miduch, Łukasz Iwan, Kamil Krasuski, Janusz Ćwiklak** Analysis of the dynamics of CME and solar wind phenomena during the 25th Solar Cycle in the context of ensuring the operational reliability of GNSS in transport
19^{25} – 19^{35}	**Marek Kustra** Disinformation as a threat to cybersecurity and the resilience of transport infrastructure: threat identification
19^{35} – 19^{45}	**Piotr Woźniak** Application of UAV LiDAR for tree and forest stand inventory
19^{45}– 20^{00} – DISCUSSION	

20^{30} – REGIONAL DINNER

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CONFERENCE DAY 3
20.11.2026 (Friday)

7^{00} – 9^{00} BREAKFAST

9^{00} – 10^{45}	SCIENTIFIC SESSION
Session chairs	Prof. Zbigniew Stanik, Dr Tadeusz Opasiak
9^{00} – 9^{10}	**Artur Viniukov-Proshchenko, Ievgenii Kutiavin** Modern trends reshaping the management of EASA Part-145 and Part-CAMO organisations to enhance the safety of aircraft operations
9^{10} – 9^{20}	**Heorhii Kovbatiuk** Resilience of Transport Systems in the Context of Society 5.0
9^{20} – 9^{30}	**Krzysztof Targosz** Reconstruction of wooden aviation structures
9^{30} – 9^{40}	**Jakub Borowski** An analysis of cargo loading patterns and their impact on the operational efficiency of air transport: the Boeing 747-400 case
9^{40} – 9^{50}	**Amelia Marzec, Karolina Nowak, Robert Wieszała** Opportunities and challenges for unmanned aircraft systems in the transport of special materials
9^{50} – 10^{00}	**Magda Mrozik, Paweł Słowiński, Kamil Krasuski, Aleksander Flesza** A comparative analysis of the operational capabilities of ILS Categories I and II: the example of Kraków Airport
10^{00} – 10^{10}	**Mateusz Pietraszko, Magda Mrozik, Mateusz Biela, Katarzyna Brzeska** Analysis of aircraft engine performance and fuel consumption at varying altitudes and temperatures
10^{10} – 10^{20}	**Michał Miros, Rafał Sieńko, Marek Zawalski** Modular barriers and ballistic containers for the protection of aviation infrastructure
10^{20} – 10^{30}	**Jan Warczek, Marek Marcisz, Aleksander Gąszczak** Analysis of noise distribution to support the design of acoustically acceptable flight paths for unmanned aircraft
10^{30} – 10^{45} DISCUSSION	

10^{45} – 11^{00} – COFFEE BREAK

11^{00} – 12^{20}	SCIENTIFIC SESSION
Session chairs	Prof. Jacek Mendala, Dr Robert Wieszała
11^{00} – 11^{10}	**Piotr Nitka** Selected issues in aviation training in the age of AI
11^{10} – 11^{20}	**Filip Niedziela** Selected issues relating to the design and operation of drones in airspace
11^{20} – 11^{30}	**Tomasz Wojnar, Jarosław Kozuba** Cargo drones as part of the future of air transport
11^{30} – 11^{40}	**Marianna Boś, Robert Wieszała** The effect of unwanted noise on reaction times among students training for an ATPL(A) licence
11^{40} – 11^{50}	**Ewa Kałużna** Simulators in the training and professional development of cabin crew
11^{50} – 12^{00}	**Zbigniew Stanik** The importance of OBD in ensuring the safe operation of vehicles
12^{00} – 12^{10}	**Wawrzyniec Panfil, Krzysztof Targosz, Jarosław Kozuba** Analysis of the potential use of unmanned aircraft for monitoring technical infrastructure
12^{10} – 12^{20} Discussion	
12^{20} – 12^{40} Closing Session	

13^{00} – 14^{00} LUNCH

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