

SSARS 2023

17th Summer Safety and Reliability Seminar and Workshop
July 9–14, 2023, Kraków, Poland

PROGRAMME



Organizers and Sponsors

Polish Safety and Reliability Association (PSRA)
Gdynia Maritime University (GMU)
Poland's Ministry of Education and Science (PMES)



Secretariat

Polish Safety and Reliability Association
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Website

<https://ssars.umg.edu.pl>

Location

„Wyspiański” Hotel
Westerplatte 15 Street,
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<https://www.hotel-wyspianski.pl/en/>
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Seminar Scientific Board

General Chair

Kołowrocki Krzysztof, Polish Safety and Reliability Association, Poland

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Bogalecka Magdalena, Dąbrowska Ewa, Magryta-Mut Beata, Gdynia Maritime University, Poland

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Technical Team

Dąbrowski Maciej, Poland

Heimowska Aleksandra, Poland

Krasowska Katarzyna, Poland

Sunday, 9.07.2023

Time	Seminar Events
14 ⁰⁰ - 17 ⁰⁰	<i>Seminar Participants' Arrival</i> („Wyspiański” Hotel)
17 ⁰⁰ - 19 ⁰⁰	<i>Participants' Registration</i> (Seminar Desk)
19⁰⁰ - 22⁰⁰	Seminar Dinner (Hotel Restaurant)

Monday, 10.07.2023

Time	Seminar Events (Seminar Room)
7 ³⁰ – 10 ⁰⁰	Breakfast (Hotel Restaurant)
	Opening Ceremony
10 ⁰⁰ – 10 ³⁰	Welcome (<i>Kołowrocki Krzysztof</i> – General Chair) Technical Information (<i>Dąbrowska Ewa</i> – Executive Chair)
	Plenary Session 1
10 ³⁰ – 11 ⁰⁰	<i>Chair: Bogalecka Magdalena</i> <i>Title: Safety analysis of complex multistate ageing system</i> <i>Speaker: Kołowrocki Krzysztof</i>
	SSARS Workshop – Training Course 1
11 ⁰⁰ – 11 ³⁰	<i>Chair: Kołowrocki Krzysztof</i> <i>Title: General approach to critical infrastructure safety modelling through training courses</i> <i>Speaker: Kołowrocki Krzysztof</i>
11 ³⁰ – 12 ⁰⁰	Coffee/Tea Break (Seminar Room)
12 ⁰⁰ – 13 ⁰⁰	Polish Safety and Reliability Association Management Board Meeting
13 ⁰⁰ – 14 ⁰⁰	Lunch (Hotel Restaurant)
14 ⁰⁰ – 19 ⁰⁰	Substantive and organizational preparatory work on ESREL 2024 Conference in Kraków (visits, meetings, agreements)
19 ⁰⁰ – 22 ⁰⁰	Seminar Dinner (Hotel Restaurant)

Tuesday, 11.07.2023

Time	Seminar Events (Seminar Room)
7³⁰ – 10⁰⁰	Breakfast (Hotel Restaurant)
10 ⁰⁰ – 10 ³⁰	Plenary Session 2
	<i>Chair: Tanguy Christian</i> <i>Optimizing repair/replacement policy if cumulative distribution function of time-to-repair is rational function</i> <i>Speaker: Malinowski Jacek</i>
10 ³⁰ – 11 ⁰⁰	Plenary Session 3
	<i>Chair: Malinowski Jacek</i> <i>Title: Operation cost optimization of complex multistate ageing technical systems</i> <i>Speaker: Magryta-Mut Beata</i>
11 ⁰⁰ – 11 ³⁰	SSARS Workshop – Training Course 2
	<i>Chair: Kołowrocki Krzysztof</i> <i>Title: Two-state approach to critical infrastructure reliability analysis</i> <i>Speaker: Kołowrocki Krzysztof, Magryta-Mut Beata</i>
11³⁰ – 12⁰⁰	Coffee/Tea Break (Seminar Room)
12 ⁰⁰ – 12 ³⁰	Seminar Session 1
	<i>Chair: Krasowska Katarzyna</i> <i>Title: Water supply networks – performance modelling and assessment</i> <i>Speaker: Pietrucha-Urbanik Katarzyna, Tchórzewska-Cieślak Barbara, Eid Mohamed</i> <i>Title: Notifications in the European Rapid Alert system for dangerous products (RAPEX)</i> <i>Speaker: Pięłowski Marcin</i>
12 ³⁰ – 13 ⁰⁰	Seminar Session 2
	<i>Chair: Popek Marzenna</i> <i>Title: Presence, concentrations and risk assessment of dioxins (PCDD/Fs) in bottom sediments of the Port of Gdynia</i> <i>Speaker: Dereszewska Alina, Krasowska Katarzyna, Popek Marzenna</i> <i>Title: Preliminary approach to modelling eutrophication – anthropopressure impact on sea water quality</i> <i>Speaker: Bogalecka Magdalena</i>
13⁰⁰ – 14⁰⁰	Lunch (Hotel Restaurant)
14 ⁰⁰ – 19 ⁰⁰	Substantive and organizational preparatory work on ESREL 2024 Conference in Kraków (visits, meetings, agreements) Visiting Kościuszko Mound
19⁰⁰ – 24⁰⁰	Laudation Evening and Seminar Dinner (Hotel Restaurant) <i>Moderator: Kołowrocki Krzysztof</i>

Wednesday, 12.07.2023

Time	Seminar Events (Seminar Room)
7 ³⁰ – 10 ⁰⁰	Breakfast (Hotel Restaurant)
10 ⁰⁰ – 10 ³⁰	Plenary Session 4
	<i>Chair: Mazurkiewicz Jacek</i>
	<i>Title: Influence of transients on the end-to-end availability for a meshed network</i> <i>Speaker: Tanguy Christian</i>
10 ³⁰ – 11 ⁰⁰	Plenary Session 5
	<i>Chair: Dereszewska Alina</i>
	<i>Title: Imperfect maintenance in a correlated bivariate Wiener model</i> <i>Speaker: Bautista Lucía, Castro Inma T., Bérenguer Christophe, Gaudoin Olivier, Doyen Laurent</i>
11 ⁰⁰ – 11 ³⁰	SSARS Workshop – Training Course 3
	<i>Chair: Kołowrocki Krzysztof</i>
	<i>Title: Multistate approach to critical infrastructure reliability analysis</i> <i>Speaker: Kołowrocki Krzysztof, Magryta-Mut Beata</i>
11 ³⁰ – 12 ⁰⁰	Coffee/Tea Break (Seminar Room)
12 ⁰⁰ – 12 ³⁰	Plenary Session 6
	<i>Chair: Bautista Lucía</i>
	<i>Title: Softcomputing system for painting art style verification</i> <i>Speaker: Mazurkiewicz Jacek</i>
12 ³⁰ – 13 ⁰⁰	Seminar Session 3
	<i>Chair: Tomaszewska Justyna</i>
	<i>Title: A comprehensive approach to addressing oil spills from critical infrastructure accidents</i> <i>Speaker: Dąbrowska Ewa</i> <i>Title: Data processing for oil spill domain movement models</i> <i>Speaker: Dąbrowska Ewa, Dąbrowski Maciej</i>
13 ⁰⁰ – 14 ⁰⁰	Lunch (Hotel Restaurant)
14 ⁰⁰ – 19 ⁰⁰	Substantive and organizational preparatory work on ESREL 2024 Conference in Kraków (visits, meetings, agreements)
19 ⁰⁰ – 22 ⁰⁰	Seminar Dinner (Hotel Restaurant)

Thursday, 13.07.2023

Time	Seminar Events (Seminar Room)
7³⁰ – 10⁰⁰	Breakfast (Hotel Restaurant)
10 ⁰⁰ – 10 ³⁰	Plenary Session 7
	<i>Chair: Opyrchal Leszek</i>
	<i>Title: Operational resilience of industrial automation and control systems</i> <i>Speaker: Kosmowski Kazimierz</i>
10 ³⁰ – 11 ⁰⁰	Plenary Session 8
	<i>Chair: Kumar Girish</i>
	<i>Title: Barrier management as a proactive approach for technical integrity management and risk management</i> <i>Speaker: Rahim Yousif</i>
11 ⁰⁰ – 11 ³⁰	SSARS Workshop - Training Course 4
	<i>Chair: Kołowrocki Krzysztof</i>
	<i>Title: Two-state approach to critical infrastructure safety analysis</i> <i>Speaker: Kołowrocki Krzysztof, Magryta-Mut Beata</i>
11³⁰ – 12⁰⁰	Coffee/Tea Break (Seminar Room)
12 ⁰⁰ – 12 ³⁰	Plenary Session 9
	<i>Chair: Rahim Yousif</i>
	<i>Title: Analysis of past aircraft incidents in respect of the occurrence of an aircraft accident</i> <i>Speaker: Tomaszewska Justyna, Woch Marta, Zieja Mariusz, Parandyk Mikołaj</i>
12 ³⁰ – 13 ⁰⁰ Chicago time: 5 ³⁰ – 6 ⁰⁰	Seminar Session 4
	<i>Chair: Dąbrowska Ewa</i>
	<i>Title: Availability analysis of vertical milling centre using Markov approach and Monte Carlo simulations</i> <i>Speaker: Kumar Girish, Mishra Ravi, Khan Tayyab</i> <i>Title: Modeling reliability of systems with repair by stochastic processes with long memory</i> <i>Speaker: Filus Jerzy K., Filus Lidia Z.</i>
13⁰⁰ – 14⁰⁰	Lunch (Hotel Restaurant)
14 ⁰⁰ – 19 ⁰⁰	Substantive and organizational preparatory work on ESREL 2024 Conference in Kraków (visits, meetings, agreements)
19⁰⁰ – 22⁰⁰	Seminar Dinner (Hotel Restaurant)

Friday, 14.07.2023

Time	Seminar Events (Seminar Room)
7 ³⁰ – 10 ⁰⁰	Breakfast (Hotel Restaurant)
10 ⁰⁰ – 10 ³⁰	<i>Title: Closing words</i> <i>Speaker: Bogalecka Magdalena</i>
10 ³⁰ – 11 ⁰⁰	<i>Seminar Participants' Departure</i>