

SSARS 2022

16th Summer Safety and Reliability Seminar and Workshop
September 4–11, 2022, Ciechocinek, Poland

PROGRAMME



Organizers and Sponsors

Gdynia Maritime University (GMU)
Polish Safety and Reliability Association (PSRA)
European Safety and Reliability Association (ESRA)



Secretariat

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Website

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Location

„Pod Teżniami” Hotel Conference & Spa
<https://www.podtezniami.pl/en/contact/>
Warzelniana 7 Street
87-720 Ciechocinek, Poland
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Seminar Scientific Board

General Chair

Kołowrocki Krzysztof, Gdynia Maritime University, Poland

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

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Popek Marzenna, Poland
Tanguy Christian, France
Tchórzewska-Cieślak Barbara, Poland
Woch Marta, Poland
Zaitseva Elena, Slovakia

Technical Team

Cichocka Oliwia, Poland

Sunday, 4.09.2022

Time	Seminar Events
14 ⁰⁰ - 17 ⁰⁰	<i>Participants' Arrival</i> ("Pod Těžniami" Hotel)
17 ⁰⁰ - 18 ⁰⁰	<i>Participants' Registration</i> (Seminar Desk)
18⁰⁰ - 19⁰⁰	Dinner (Hotel Restaurant)

Monday, 5.09.2022

Time	Seminar Events (Seminar Room)
7⁴⁵ – 10⁰⁰	Breakfast (Hotel Restaurant)
10 ⁰⁰ – 10 ³⁰	Opening Ceremony
	Welcome (<i>Kołowrocki Krzysztof</i> – General Chair) Technical Information (<i>Dąbrowska Ewa</i> – Executive Chair)
10 ³⁰ – 11 ⁰⁰	Plenary Session 1
	<i>Chair: Bogalecka Magdalena</i>
	<i>Title:</i> European Union Global Critical Infrastructure Safety Management System – EUSAFEGLOBE. Research project proposition <i>Speaker: Kołowrocki Krzysztof</i>
11⁰⁰ – 11³⁰	Coffee/Tea Break (Seminar Room)
11 ³⁰ – 12 ⁰⁰	Plenary Session 2
	<i>Chair: Woch Marta</i>
	<i>Title:</i> Estimation of Weibull distribution parameters using sequences of minimal repair times <i>Speaker: Malinowski Jacek</i>
12⁰⁰ - 13⁰⁰	Free Time
13⁰⁰ – 15⁰⁰	Lunch (Hotel Restaurant)
15 ⁰⁰ – 18 ⁰⁰	Polish Safety and Reliability Association Management Board General Meeting
18⁰⁰ - 22⁰⁰	Laudation Evening and Seminar Dinner (Hotel Restaurant) People of Polish Safety and Reliability Association and Summer Safety and Reliability Seminars – Professors’ biographical notes: Mohamed Eid, Franciszek Grabski, Wojciech Zamojski, Józef Żurek <i>Moderator: Kołowrocki Krzysztof</i>

Tuesday, 6.09.2022

Time	Seminar Events (Seminar Room)
7⁴⁵ – 10⁰⁰	Breakfast (Hotel Restaurant)
10 ⁰⁰ – 10 ³⁰	Plenary Session 3
Beijing (China) time: 16 ⁰⁰ – 16 ³⁰	<i>Chair: Kołowrocki Krzysztof</i>
	<i>Title: Approximate method for redundancy allocation problem in multi-state series-parallel system</i>
	<i>Speaker: Zhang Hanxiao, <u>Li Yan-Fu</u></i>
10 ³⁰ – 11 ⁰⁰	Seminar Session 3
	<i>Chair: Magryta-Mut Beata</i>
	<i>Title: Operation process of training aircraft diamond DA 20-C1</i>
	<i>Speaker: <u>Woch Marta</u>, Tomaszewska Justyna, Kościak Kinga, Zieja Mariusz</i>
	<i>Title: Sequence of events and probability of sinking of German battleship <i>Bismarck</i></i>
	<i>Speaker: <u>Opyrchal Leszek</u>, Bąk Aleksandra</i>
	<i>Title: Preliminary approach to ecological risk assessment of microplastics in the selected coastal regions of the Baltic Sea</i>
	<i>Speaker: <u>Krasowska Katarzyna</u>, Dereszewska Alina, Popek Marzenna</i>
11⁰⁰ – 11³⁰	Coffee/Tea Break (Seminar Room)
11 ³⁰ – 12 ⁰⁰	Plenary Session 4
	<i>Chair: <u>Opyrchal Leszek</u></i>
	<i>Title: Performance analysis of intelligent agents in complex event processing systems</i>
	<i>Speaker: Walkowiak Tomasz, <u>Mazurkiewicz Jacek</u>, Sugier Jarosław, Śliwiński Przemysław</i>
12 ⁰⁰ – 12 ³⁰	Seminar Session 4
	<i>Chair: Popek Marzenna</i>
	<i>Title: Modelling oil spill layer thickness and hydro-meteorological conditions impacts on its domain movement at sea area</i>
	<i>Speaker: <u>Dąbrowska Ewa</u></i>
	<i>Title: Maritime transportation system safety and operation cost joint optimization</i>
	<i>Speaker: Kołowrocki Krzysztof, <u>Magryta-Mut Beata</u></i>
	<i>Title: Port oil terminal operation cost and system safety joint optimization</i>
	<i>Speaker: <u>Magryta-Mut Beata</u></i>
13⁰⁰ – 15⁰⁰	Lunch (Hotel Restaurant)
15³⁰ - 18⁰⁰	Free Time
18⁰⁰ - 19⁰⁰	Dinner (Hotel Restaurant)

Wednesday, 7.09.2022

Time	Seminar Events (Seminar Room)
7⁴⁵ – 10⁰⁰	Breakfast (Hotel Restaurant)
10 ⁰⁰ – 10 ³⁰	Plenary Session 5
	<i>Chair: Malinowski Jacek</i>
	<i>Title: Transient behaviour of instantaneous and average availabilities in non-Markovian configuration</i> <i>Speaker: Tanguy Christian</i>
10 ³⁰ – 11 ⁰⁰	Seminar Session 5
	<i>Chair: Mazurkiewicz Jacek</i>
	<i>Title: Degradation model for system incorporating heterogeneities</i> <i>Speaker: <u>Bautista Lucía</u>, Castro Inma T., Landesa Luis</i>
	<i>Title: Collecting and processing data of network devices in terms of monitoring and warning system implementation</i> <i>Speaker: Dąbrowski Maciej</i>
	<i>Title: General stochastic models for series multicomponent system reliability</i> <i>Speaker: Filus Jerzy, <u>Filus Lidia</u></i>
11⁰⁰ – 11³⁰	Coffee/Tea Break (Seminar Room)
11 ³⁰ – 12 ⁰⁰	Plenary Session 6
	<i>Chair: Dąbrowski Maciej</i>
	<i>Title: Water distribution systems failure risk assessment</i> <i>Speaker: <u>Pietrucha-Urbanik Katarzyna</u>, Tchórzewska-Cieślak Barbara</i>
12 ⁰⁰ – 12 ²⁰	Seminar Session 6
	<i>Chair: Krasowska Katarzyna</i>
	<i>Title: Modelling process of municipal wastewater quality – backgrounds and preliminary application</i> <i>Speaker: <u>Bogalecka Magdalena</u>, Dereszewska Alina</i>
	<i>Title: Multistate approach to food packaging material quality and consumption safety analysis</i> <i>Speaker: <u>Bogalecka Magdalena</u>, Morawska Magda</i>
13⁰⁰ – 15⁰⁰	Lunch (Hotel Restaurant)
15³⁰ - 18⁰⁰	Free Time
18⁰⁰ - 19⁰⁰	Dinner (Hotel Restaurant)

Thursday, 8.09.2022

Time	Seminar/Workshop Events (Seminar Room)
7⁴⁵ – 10⁰⁰	Breakfast (Hotel Restaurant)
10 ⁰⁰ – 10 ³⁰	Plenary Session 5
	<i>Chair: Dereszewska Alina</i>
	<i>Title: Towards strategic resilience of process plants and critical infrastructure regarding the functional safety and cybersecurity requirements</i> <i>Speaker: Kosmowski Kazimierz T.</i>
10 ³⁰ – 10 ⁵⁰	Discussion on the subject and organization of SSARS 2023
	<i>Moderator: Bogalecka Magdalena</i>
10 ⁵⁰ – 11 ⁰⁰	SSARS Closing Ceremony
	Closing words <i>Speaker: Kolowrocki Krzysztof – General Chair</i>
11 ⁰⁰ – 11 ³⁰	SSARS Participants Departure
11⁰⁰ – 11³⁰	Coffee/Tea Break (Seminar Room)
11 ³⁰ – 12 ³⁰	Post-SSARS Workshop System of Critical Infrastructure Safety Training Courses – SCISTC Training Course 1
	<i>Moderator: Kolowrocki Krzysztof</i>
	<i>Title: Two-state critical infrastructure reliability analysis</i> <i>Speaker: <u>Dąbrowska Ewa</u>, <u>Kolowrocki Krzysztof</u>, <u>Magryta-Mut Beata</u></i>
12 ⁰⁰ – 12 ³⁰	Post-SSARS Workshop System of Critical Infrastructure Safety Training Courses – SCISTC Training Course 2
	<i>Moderator: Kolowrocki Krzysztof</i>
	<i>Title: Multi-state critical infrastructure reliability analysis</i> <i>Speaker: <u>Dąbrowska Ewa</u>, <u>Kolowrocki Krzysztof</u>, <u>Magryta-Mut Beata</u></i>
13⁰⁰ – 15⁰⁰	Lunch (Hotel Restaurant)
15³⁰ - 18⁰⁰	Free Time
18⁰⁰ - 19⁰⁰	Dinner (Hotel Restaurant)

Friday, 9.09.2022

Time	Workshop Events (Seminar Room)
7⁴⁵ – 10⁰⁰	Breakfast (Hotel Restaurant)
10 ⁰⁰ – 10 ³⁰	Post-SSARS Workshop System of Critical Infrastructure Safety Training Courses – SCISTC Training Course 3
	<i>Moderator: Kołowrocki Krzysztof</i>
	<i>Title: Two-state critical infrastructure safety analysis Speaker: <u>Dąbrowska Ewa</u>, <u>Kołowrocki Krzysztof</u>, <u>Magryta-Mut Beata</u></i>
10 ³⁰ – 11 ⁰⁰	Post-SSARS Workshop System of Critical Infrastructure Safety Training Courses – SCISTC Training Course 4
	<i>Moderator: Kołowrocki Krzysztof</i>
	<i>Title: Multi-state critical infrastructure safety analysis Speaker: <u>Dąbrowska Ewa</u>, <u>Kołowrocki Krzysztof</u>, <u>Magryta-Mut Beata</u></i>
11⁰⁰ – 11³⁰	Coffee/Tea Break (Seminar Room)
11 ³⁰ – 12 ⁰⁰	Post-SSARS Workshop System of Critical Infrastructure Safety Training Courses – SCISTC Training Course 5
	<i>Moderator: Kołowrocki Krzysztof</i>
	<i>Title: Safety indicators of critical Infrastructure without outside impacts Speaker: <u>Dąbrowska Ewa</u>, <u>Kołowrocki Krzysztof</u>, <u>Magryta-Mut Beata</u></i>
12 ⁰⁰ – 12 ³⁰	Post-SSARS Workshop System of Critical Infrastructure Safety Training Courses – SCISTC Training Course 6
	<i>Moderator: Kołowrocki Krzysztof</i>
	<i>Title: Safety indicators of critical Infrastructure impacted by its operation process Speaker: <u>Dąbrowska Ewa</u>, <u>Kołowrocki Krzysztof</u>, <u>Magryta-Mut Beata</u></i>
13⁰⁰ – 15⁰⁰	Lunch (Hotel Restaurant)
15³⁰ - 18⁰⁰	Free Time
18⁰⁰ - 19⁰⁰	Dinner (Hotel Restaurant)

Saturday, 10.09.2022

Time	Workshop Events (Seminar Room)
7⁴⁵ – 10⁰⁰	Breakfast (Hotel Restaurant)
10 ⁰⁰ – 10 ³⁰	Post-SSARS Workshop System of Critical Infrastructure Safety Training Courses – SCISTC Training Course 7
	<i>Moderator: Kolowrocki Krzysztof</i>
	<i>Title: Safety indicators of critical Infrastructure impacted by climate-weather change process Speaker: <u>Dąbrowska Ewa, Kolowrocki Krzysztof, Magryta-Mut Beata</u></i>
10 ³⁰ – 11 ⁰⁰	Post-SSARS Workshop System of Critical Infrastructure Safety Training Courses – SCISTC Training Course 8
	<i>Moderator: Kolowrocki Krzysztof</i>
	<i>Title: Safety indicators of critical infrastructure impacted jointly by its operation process and climate-weather change process Speaker: <u>Dąbrowska Ewa, Kolowrocki Krzysztof, Magryta-Mut Beata</u></i>
11⁰⁰ – 11³⁰	Coffee/Tea Break (Seminar Room)
11 ³⁰ – 12 ³⁰	Polish Safety and Reliability Association Management Board Meeting
13⁰⁰ – 15⁰⁰	Lunch (Hotel Restaurant)
15³⁰ - 18⁰⁰	Free Time
18⁰⁰ - 19⁰⁰	Dinner (Hotel Restaurant)

Sunday, 11.09.2022

Time	Workshop Events (Seminar Room)
7 ⁴⁵ – 10 ⁰⁰	Breakfast (Hotel Restaurant)
10 ⁰⁰ – 10 ³⁰	<i>Title: Closing words Speaker: Bogalecka Magdalena</i>
10 ³⁰ – 11 ⁰⁰	Post-SSARS Workshop Participants Departure

Gdynia, 21.07.2022