

SSARS | 2020 CONFERENCE

14th Summer Safety & Reliability Seminar

26th–30th September 2020
CIECHOCINEK, Austeria Hotel Conference & Spa, Poland

PROGRAMME

Organizers and Sponsors

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

Secretariat

Gdynia Maritime University
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Website

<http://ssars.umg.gdnia.pl>

Location

„Austeria Conference & Spa” Hotel
<http://hotelausteria.pl/kontakt>
Bema 32 Street, 87-720 Ciechocinek, Poland
e-mail: marketing@hotelausteria.pl

Seminar Scientific Board

General Chair

Kołowrocki Krzysztof, Gdynia Maritime University, Poland

Executive Chairs

Bogalecka Magdalena, Dąbrowska Ewa, Torbicki Mateusz, Gdynia Maritime University, Poland

Members

Blokus Agnieszka, Poland

Čepin Marco, Slovenia

Dziula Przemysław, Poland

Eid Mohamed, France

Grabski Franciszek, Poland

Kosmowski Kazimierz, Poland

Kostogryzov Andrey, Russia

Kurowicka Dorota, the Netherlands

Li Yan-Fu, China

Malinowski Jacek, Poland

Milazzo Francesca Maria, Italy

Pietrucha-Urbanik Katarzyna, Poland

Popek Marzena, Poland

Tchórzewska-Cieślak Barbara, Poland

Technical Team

Kamiński Grzegorz, Poland

Magryta Beata, Poland

SEMINAR PROGRAMME

Saturday, 26.09.2020

Time	Seminar Events
14 ⁰⁰ - 17 ⁰⁰	Participants' Arrival (Austeria Hotel)
17 ⁰⁰ - 18 ⁰⁰	Participants' Registration (Seminar Desk)
18⁰⁰ - 19⁰⁰	Dinner (Hotel Restaurant)

Sunday, 27.09.2020

Time	Seminar Events
7³⁰ – 10⁰⁰	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	Chair: <i>Kołowrocki Krzysztof</i> <i>Title: Safety and reliability modelling to support risk management decision making</i> Speaker: <i>Eid Mohamed</i>
11⁰⁰ – 11³⁰	Coffee/Tea Break (Seminar Room)
	Workshop 1 for PSRA Management Board only Modification of SSARS Seminars Future Organizing and Scientific Forms
11 ³⁰ – 12 ³⁰	Chair: <i>Kołowrocki Krzysztof</i> <i>Title: SSARS Seminars first modification: SSARS 2020 First Announcement and Registration Form</i> Speaker: <i>Torbicki Mateusz</i> <i>Title: SSARS Seminars first modification: SSARS 2020 Programme</i> Speaker: <i>Dąbrowska Ewa</i> <i>Title: SSARS Seminars future organization – summary</i> Speakers: <i>Kołowrocki Krzysztof, Others</i>
12³⁰ – 14⁰⁰	Lunch (Hotel Restaurant)
	Workshop 2 for PSRA Management Board only Modification of JPSRA Future Scientific Form and Publishing Way
14 ⁰⁰ – 15 ³⁰	Moderator: <i>Kołowrocki Krzysztof</i> <i>Title: Monograph definition and requirement in Poland</i> Speaker: <i>Bogalecka Magdalena</i> <i>Title: SSARS First Monograph: Safety and Reliability of Systems and Processes, Summer Safety and Reliability Seminar 2020</i> Speaker: <i>Bogalecka Magdalena</i> <i>Title: SSARS Monographs future form and publishing way – summary</i> Speakers: <i>Kołowrocki Krzysztof, Others</i>
15³⁰ - 18⁰⁰	Free Time – individual Visiting Ciechocinek City
18⁰⁰ - 19⁰⁰	Dinner (Hotel Restaurant)
19⁰⁰ - 22⁰⁰	Visiting “Bristol” (another one) Restaurant

Monday, 28.09.2020

Time	Seminar Events
7³⁰ – 10⁰⁰	Breakfast (Hotel Restaurant)
10 ⁰⁰ – 10 ³⁰	Plenary Session 2
	Chair: Malinowski Jacek
	<i>Title: General approach to safety analysis of energy distribution critical infrastructures and networks – research project proposition</i> Speaker: <u>Kolowrocki Krzysztof</u>
10 ³⁰ – 11 ⁰⁰	Plenary Session 3
	Chair: Dąbrowska Ewa
	<i>Title: Ensuring an adequate quality level of water supply services in terms of the water consumers safety</i> Speakers: <u>Pietrucha-Urbanik Katarzyna</u>, Tchórzewska-Cieślak Barbara
11⁰⁰ – 11³⁰	Coffee/Tea Break (Seminar Room)
11 ³⁰ – 12 ³⁰	Seminar Session 1 Reliability and Safety of Complex Systems
	Chair: Bogalecka Magdalena
	<i>Title: Reliability of power systems with increasing contribution from wind and solar power</i>
	Speaker: <u>Čepin Marko</u>
	<i>Title: A condition-based maintenance for heterogeneous complex systems under a periodic inspection policy</i>
	Speakers: <u>Bautista Barcena Lucia</u>, Torres Castro Inmaculada, Landesa Porra Luis
<i>Title: Reliability analysis of multistate parallel-series fuel transportation system in variable operating conditions</i> Speaker: <u>Wilemski Szymon</u>	
12³⁰ – 14⁰⁰	Lunch (Hotel Restaurant)
14 ⁰⁰ – 15 ³⁰	Seminar Session 2 Reliability and Safety of Critical Infrastructures
	Chair: Blokus Agnieszka
	<i>Title: Modelling maritime critical infrastructure accidents consequences with semi-Markov chain method</i>
	Speaker: <u>Bogalecka Magdalena</u>
	<i>Title: An application determining of weather impact on critical infrastructure safety and resilience</i>
	Speakers: <u>Torbicki Mateusz</u>, Drabiński Bartosz
	<i>Title: Probabilistic methods of risk predictions and their pragmatic applications in life cycle of complex systems</i> Speakers: <u>Kostogryzov Andrey</u>, Nistratov Andrey
<i>Title: Safety optimization of maritime ferry technical system</i> Speaker: <u>Magryta Beata</u>	
15³⁰ - 18⁰⁰	Free Time – Visiting “Teżnie”, Shopping Souvenirs
18⁰⁰ - 22⁰⁰	Seminar Dinner (Hotel Restaurant)

Tuesday, 29.09.2020

Time	Seminar Events
7³⁰ – 10⁰⁰	Breakfast (Hotel Restaurant)
10 ⁰⁰ – 10 ³⁰	Plenary Session 4
	<i>Chair: Malinowski Jacek</i>
	<i>Title: Systems engineering approach to functional safety and cyber security of industrial critical installations</i> <i>Speaker: <u>Kosmowski Kazimierz</u></i>
10 ³⁰ – 11 ⁰⁰	Plenary Session 5
	<i>Chair: Kołowrocki Krzysztof</i>
	<i>Title: A fast method for enumerating all minimal d-cut-sets in a flow network</i> <i>Speaker: <u>Malinowski Jacek</u></i>
11⁰⁰ – 11³⁰	Coffee/Tea Break (Seminar Room)
11 ³⁰ – 12 ³⁰	Seminar Session 3
	Reliability and Safety of Transportation Systems and Processes
	<i>Chair: Torbicki Mateusz</i>
	<i>Title: Safety analysis of car wheel system impacted by operation process</i> <i>Speaker: <u>Dąbrowska Ewa</u></i>
	<i>Title: Safety analysis of multistate ageing car wheel system with dependent components</i> <i>Speaker: <u>Kołowrocki Krzysztof</u></i>
<i>Title: Safety of maritime ferry technical system impacted by its operation process</i> <i>Speakers: <u>Kołowrocki Krzysztof, Magryta Beata,</u></i>	
12³⁰ – 14⁰⁰	Lunch (Hotel Restaurant)
14 ⁰⁰ – 15 ³⁰	Seminar Session 4
	Reliability and Safety of Complex Systems and Processes
	<i>Chair: Blokus Agnieszka</i>
	<i>Title: Random processes as models of accident numbers in Baltic sea and ports</i> <i>Speaker: <u>Grabski Franciszek</u></i>
	<i>Title: Safety analysis of the system of crude oil transshipment</i> <i>Speaker: <u>Blokus Agnieszka</u></i>
<i>Title: The concept of sustainable development of safe maritime transport</i> <i>Speaker: <u>Popek Marzenna</u></i>	
15³⁰ - 18⁰⁰	Free Time – Visiting “Salt Weighting” Building
18⁰⁰ - 19⁰⁰	Dinner (Hotel Restaurant)

Wednesday, 30.09.2020

Time	Seminar Events
7 ³⁰ – 10 ⁰⁰	Breakfast (Hotel Restaurant)
10 ⁰⁰ – 10 ³⁰	Discussion on the subject and organization of SSARS 2021
	<i>Chair: Kołowrocki Krzysztof</i>
10 ³⁰ – 11 ⁰⁰	Closing words <i>Speaker: <u>Kołowrocki Krzysztof</u></i>
11 ⁰⁰ – 12 ⁰⁰	Participants Departure

Gdynia, 25.09.2020