28th Annual Conference of the Society for Risk Analysis Europe Systemic Risks: From Natural Hazards to Cyber Risks

June 24 – 26, 2019, Potsdam, Germany



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A very warm **welcome** to Potsdam, the city of castles and lakes, science and history! We are delighted to welcome you to the 28th Annual Conference of the Society for Risk Analysis Europe. The conference is hosted and cosponsored by the Institute for Advanced Sustainability Studies, Potsdam in co-operation with the German Research Centre for Geosciences. This year's theme, "Systemic Risks: From Natural Hazards to Cyber Risks" is intended to showcase the wide variety of risk issues that threaten society today. These risk issues demand research which surpasses national boundaries and disciplinary segregation. We hope this annual meeting will be a venue for you to engage with people from all over the world with various professional and disciplinary backgrounds.

The Organising Committee 2019

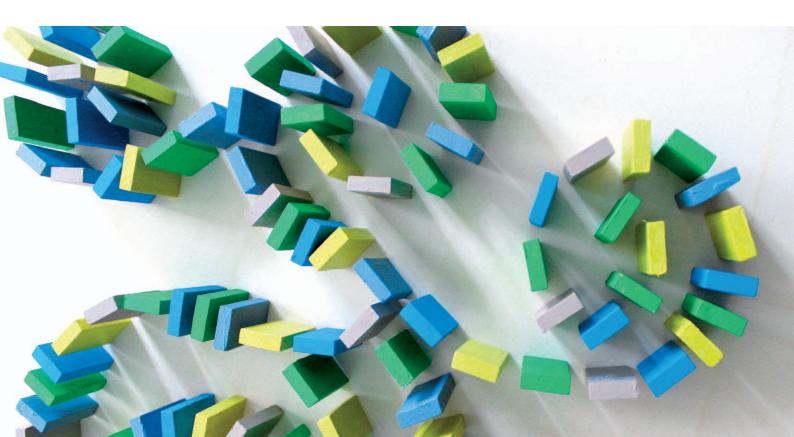


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SRA-E 2020

PRACTICAL INFORMATION

The **registration desk** is situated in the foyer of building Haus H. It is open during conference hours. Staff will do their best to answer your questions. Call +49 151 12019025 for urgent matters outside conference hours. Call 112 for emergency services.

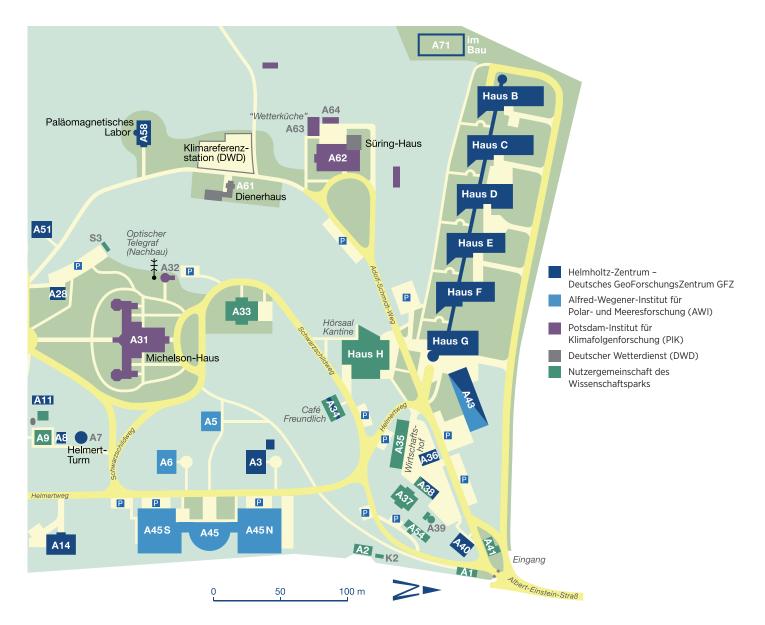
Lunch will be served in the restaurant on the first floor of Haus H from 1 pm until 2 pm. Please bring your lunch vouchers with you. You will find the vouchers in your conference bag.

Light refreshments will be served during **coffee breaks** in the foyer. Water is available in the foyer at all times. Keynote speeches, panel discussions and the General Assembly will take place in the Auditorium on the ground floor of Haus H. Sessions will take place in rooms Vortragssaal 1, Vortragssaal 2 and Vortragssaal 3 as well as G359. Rooms Vortragssaal 1–3 are located on the ground floor of Haus H. Room G359 is located on the second floor of Haus G. Signs will point you the way.

Please note that the **conference dinner** on June 25 will take place on board of a ship. The river cruise will depart at **6 pm** from the pier, Lange Brücke 6, 14467 Potsdam, right beside Hotel Mercure Potsdam.

On your days of arrival and departure you may leave your luggage at the registration desk at your own risk. Free Wi-Fi is available. Please log in with your personal access code provided in the conference bag. Smoking is prohibited inside the buildings.

CAMPUS TELEGRAFENBERG



You are kindly Invited to the pre-conference



Cocktail Reception Ballroom June 23, 2019, 18:00 – 20:00

IASS Potsdam Institute for Advanced Sustainability Studies e.V. Berliner Straße 130 14467 Potsdam

The location of the IASS in Potsdam



From Potsdam Central Station to the IASS: Take Tram 93 in the direction of Glienicker Brücke and get out at the Schiffbauergasse/Berliner Straße stop, which is situated directly opposite the IASS.

¬ Sunday 18:00 in the Ballroom at IASS



WHAT ARE SYSTEMIC RISKS? FROM COMPLEX NATURAL HAZARDS TO CYBERSECURITY



Prof. Dr. Dr. h.c. Ortwin Renn Scientific Director Institute for Advances Sustainability Studies Potsdam (IASS) Germany

Systemic risks are a product of profound and rapid technological, economic and social changes associated with three major transformations: globalization, digitalization and "sustainabilization" under the conditions of ecological, social and cultural constraints. They are characterized by high complexity, transboundary effects, stochastic relationships, and nonlinear cause-effect patterns with tipping points and often associated with less public attention than they deserve. The full range of systemic risks from natural hazards to cybersecurity will be used to illustrate these characteristics and their implications. Due to these characteristics, systemic risks are overextending established risk management and creating new, unsolved challenges for policy making in risk governance. Their negative effects are often pervasive, impacting fields beyond the obvious primary areas of harm. The talk relates to an integrative risk concept including evaluation criteria, different risk classes and corresponding management strategies for the handling of systemic risks. It is argued that a deliberative approach is needed for risk management and policy making in risk governance to prevent, mitigate or control systemic risks.

Bio: Ortwin Renn is scientific director at the International *Institute for Advanced Sustainability Studies (IASS)* in Potsdam (Germany) and professor for environmental sociology and technology assessment at the University of Stuttgart. He also directs the non-*profit company DIALOGIK*, a research institute for the investigation of communication and participation processes. His research interests include risk governance (analysis perception, communication), stakeholder and public involvement in environmental decision making, transformation processes in economics, politics and society and sustainable development. Renn has published more than 30 monographs and over 250 peer reviewed articles. His most prominent English publication is the book "Risk Governance. Coping with Uncertainty in a Complex World" (London: Earthscan 2008).

A Monday 9:30 in the Auditorium

KEYNOTE

SRA and the science and profession of risk analysis: where are we and where are we heading?



Prof. Dr. Terje Aven Professor of Risk Analysis and Risk Management University of Stavanger Norway

In the talk Terje Aven will provide some reflections on the status and future of risk analysis as a science and profession, as well as on SRA as a society for enhancing risk science and the profession: Are we moving in the right direction? What are our visions and goals? Reference is made to the recent SRA Strategic Plan and its main goals and prioritizations.

Bio: Terje Aven is Professor of Risk Analysis and Risk Management at the University of Stavanger, Norway, He has many years of experience as a risk analyst and consultant in industry, and is the author of many books and papers covering a broad range of risk science topics. He has served as the Chair of the European Safety and Reliability Association (ESRA) and as the President of the Society for Risk Analysis (SRA) worldwide. He is Editor-in-Chief of the Journal of Risk and Reliability, and Associate editor for Risk Analysis.

A Monday 10:45 in the Auditorium

PANEL DISCUSSION HOT POTATOES OF RISK ANALYSIS

At first glance, risk analysis is a success story. Many risks, e.g. occupational health risks and risks related to transportation and mobility, which threatened human well-being previously, have been reduced significantly. Yet risk analysis still struggles with several types of risk, such as "normal accidents", "emerging risks", and "systemic risks".

The panel convenes three figureheads of the risk community, present SRA President Katherine McComas as well as SRA's Past Presidents Terje Aven and Ortwin Renn, to investigate the current hot topics in risk analysis and the challenges they pose for risk management.

PANELISTS



Prof. Katherine McComas, PhD Vice Provost for Engagement and Land-Grant Affairs Professor of Communication Cornell University USA



Prof. Dr. Terje Aven Professor of Risk Analysis and Risk Management University of Stavanger Norway



Prof. Dr. Dr. h.c. Ortwin Renn Scientific Director Institute for Advances Sustainability Studies Potsdam (IASS) Germany

A Monday 11:00 in the Auditorium

KEYNOTE

Framing Action Data for Disaster Risk Reduction and Resilience



Prof. Dr. Andrew Collins Professor of Disaster and Development Department of Geography and Environmental Sciences Northumbria University UK

Whilst global policy agendas for disaster reduction and sustainability reflect advances in awareness for humankind, changes that achieve the goals identified lack sufficient implementation. A premise is that better understanding the nature of hazards, risks and disasters in society through improved data for decision making enables more impactful practices. A Data Working Group of the United Nations Office for Disaster Risk Reduction and accompanying initiatives have opened up assessment of the limitations in risk related data availability, interoperability and quality. This is an important backdrop to informing about data processes that might be needed to achieve the targets of the Sendai Framework for Disaster Risk Reduction and Sustainable Development Goals; how data can effect risk reduction and more resilient futures. The presentation aims to elaborate on challenges of action orientated framings of data for disaster risk reduction and resilience.

Bio: Andrew Collins is Professor of Disaster and Development and Head of Human Geography, Policy and Development, Northumbria University, UK. Following voluntary skill sharing in conflict settings, PhD from King's College London and Lectureship at Sussex University, he established disaster management and sustainable development studies at Northumbria since 2000. He is elected Chair of Global Alliance of Disaster Research Institutes (GADRI), Co-Chair of UK Alliance of Disaster Research (UKADR), Board Director of International Society for Integrated Disaster Risk Management (IDRiM), was Steering Chair of Enhanced Learning and Research for Humanitarian Assistance (ELRHA) until 2018 and currently leads the United Nations Disaster Risk Reduction Data Working Group.

↗ Tuesday 09:15 in the Auditorium



Evolution as 3.5 Billion Years of Risk Management



Prof. Dr. Manfred Laubichler

President's Professor of Theoretical Biology and History of Biology and Director of the Global Biosocial Complexity Initiative Arizona State University USA

Today humanity faces numerous challenges which, if we want to have a future, require radical transformation of all aspects of our globalized society. Any system transformation comes with intrinsic risks. Furthermore, the global interconnected-ness of increasingly complex systems has brought the category of global systemic risks to the foreground. All these developments challenge traditional strategies of risk management.

On the other hand, evolution has dealt with these kinds of problems for over 3.5 billion years. I will explore a number of strategies, such a modular organization, redundant mechanisms, robustness and buffering, systemic adaptability and evolvability, that have emerged in the course of evolution and allowed organic life to thrive. The intention of this talk is to provide conceptual resources for analyzing and managing (global) systemic risks.

Bio: Manfred D. Laubichler is President's Professor of Theoretical Biology and History of Biology and Director of the Global Biosocial Complexity Initiative at Arizona State University. His work focuses on evolutionary novelties from genomes to knowledge systems, the structure of evolutionary theory and the evolution of knowledge. He is an external professor at the Santa Fe Institute and a visiting scholar at the Max Planck Institute for the History of Science in Berlin, Germany. He is also an elected fellow of the American Association for the Advancement of Science and Berlin and Vice Chair of the Global Climate Forum.

↗ Tuesday 10:30 in the Auditorium



Risk as Futures Matter



Prof. Dr. Barbara Adam Emerita Professor School of Social Sciences Cardiff University UK

Risk is a futures issue. If one accepts this statement then it becomes important to understand the different ways the future is understood and related to as these modes are deeply embedded in approaches to risk. In this presentation I shall look at risk through a futures lens, which illuminates the subject matter from an unusual angle. I use Weberian ideal types to foreground what tend to be implicit assumptions underpinning approaches to the future, as fate, fortune, fiction and fact. I show how these assumptions feature in risk perspectives, relate to degrees of uncertainty, require distinct forms of expertise and offer different affordances.

Bio: Barbara Adam is emerita professor at Cardiff University and Affiliate Scholar at IASS Potsdam. The social temporal has been the primary intellectual project of her academic career, resulting in five research monographs and a large number of articles in which she sought to bring time to the center of social science analysis. This focus facilitated a unique social theory, whose relevance transcends disciplines and is taught across the Arts and the Humanities as well as the Social and Environmental Sciences. She has been awarded two book prizes and several theory-based research grants and fellowships. She is founding editor of the journal *Time & Society*.

7 Wednesday 9:15 in the Auditorium

PANEL DISCUSSION

Systemic Risks: Challenges for Risk Analysis and Governance

In a nutshell, "systemic risks" denote risk phenomena which are exceedingly complex and interdependent. They are characterized by cascading effects, tipping points and non-linear developments. Furthermore, compared to their potential impacts, they often lack proportional public awareness and adequate policies. Consequentially, systemic risks demand cooperative management efforts of experts, the corporate sector, civil society and regulators.

The panel investigates research lacunae, innovative forms of risk management, and the potential of anticipatory governance. The panel convenes experts who bring different perspectives, such as futures (Barbara Adam), governance (Catherine Wong), risk management (Frederic Bouder), and systemic risks (Pia-Johanna Schweizer), to the table.

PANELISTS



Prof. Dr. Barbara Adam Emerita Professor School of Social Sciences Cardiff University UK



Prof. Dr. Frederic Bouder Professor in Risk Management University of Stavanger Norway



Dr. Catherine Wong Post-doctoral Research Associate University of Luxembourg Luxembourg



Dr. Pia-Johanna Schweizer Research Group Leader Systemic Risks Institute for Advanced Sustainability Studies e. V. (IASS) Germany

MONDAY

Chair: Angela Beart

08:30-09:00	Registration Room: Foyer	-					
09:00 - 09:30	Opening Ceremony: Pia-Johanna Schweizer, IASS local organiser; Seda Kundak, President of SRA-E; Charlotte Krawczyk, Head of Section Near-surface Geophysics Helmholtz Centre Potsdam (GFZ) Room: Auditorium						
09:30 - 10:15	Keynote by Ortwin Renn: What are systemic risks? From complex natural hazards to cybersecurity Room: Auditorium						
10:15 - 10:45	Coffee break Room: Foyer						
10:45 - 11:25	Keynote by Terje Aven and Hot Potatoes of Risk Analys Room: Auditorium						
11:30 - 13:00	Symposium: Risk Communication: Scientific Uncertainty and Consumer's Perceptions in a Changing Society I Room: Vortragssaal 1	Session: Risk Perception I <i>Room: Vortragssaal 2</i> Chair: Gavin Brown	Session: Transitions <i>Room: Vortragssaal 3</i> Chair: Pia-Johanna Schweizer	Session: Cyber Risk I <i>Room: G359</i> Chair: Jorge Gonzáles-Ortega			

11:30 - 13:00	S1-01
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Communication of uncertainties: Challenges and unwanted effects Michael Siegrist. Angela Bearth

S2-01

Measuring Risk Perception of Activities with Hazardous Materials: the Perception Thermometer Jeroen Neuvel. Monique Chambon, Michelle Zonneveld, Sylvia Versluis-Verhagen, Liesbeth Claassen, Emma Folkertsma

S3-01

Integrated risk assessment of carbon transition options: The case of the German chemical industry Roh Pin Lee, Raoul Voss

S1-02

Citizen Science: People's risk and benefit perceptions when sharing health and genomic data Angela Bearth, **Michael Siegrist**

S1-03

The effects of Facebook comments on the Acceptance and Willingness to buy of food products enhanced by Nanotechnology Margôt Kuttschreuter, Femke Hilverda

S2-03

chemicals

S2-04

apartments

Paul Daffy

S2-02

perception of dangerous chemical household products Kim Buchmüller, Angela Bearth. Heribert Bürgy. Michael Siegrist

The mediate role of risk

community participation

and protective action in

the context of hazardous

Xiaowei Li, Tiezhong Liu

Exploring household

preparedness and fire

Caroline McMullan.

safety behaviour in Irish

Gavin Brown, Ann Largey,

perception between

Swiss consumers' risk

S3-02

plexity and unintended consequences. A systemic risk approach to the global energy transition Pia-Johanna Schweizer. Andreas Goldthau

Interdependency, com-

S3-03

Accelerating the transition to sustainability: risks and opportunities Solene Droy

S4-02

S4-01

cost

Ric Derbyshire,

Ben Green. David

Hutchison, Jerry Busby

An Adversarial Risk Analysis Approach for Differential Games: A Botnet Defense Model Jorge González-Ortega. Antonio Gómez-Corral. David Ríos Insua

Analysing cybersecurity

risk through exploitation

S4-03

Managing Risk and Cyber **Resiliency in Electric** Power Industry Mohammad Ebrahimnezhad Shalmani. Mehran Sepehri, Leili Roshan, Abdolsaheb Arimand

S3-04 A Post-Grenfall Analysis:

Managing the risks of modern slavery in UK supply chains: A study of expert perceptions and priorities Jamie Wardman, Selim Cakir. Helen Wagner. Gabriela Gutierrez Huerter. Alex Trautrims, Stefan Gold

13:00 - 14:00

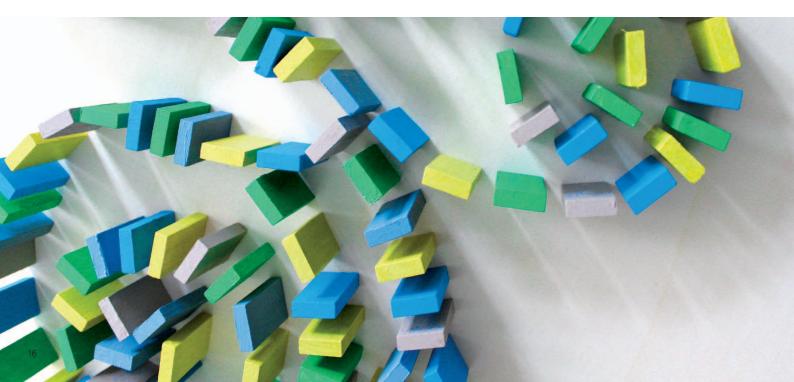
Lunch

Room: Restaurant

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14:00 - 15:30	Symposium: Risk Communication: Scientific Uncertainty and Consumer's Perceptions in a Changing Society II Room: Vortragssaal 1 Chair: Angela Bearth	Session: Risk Perception II <i>Room: Vortragssaal 2</i> Chair: Seda Kundak	Session: Risk and Technology Room: Vortragssaal 3 Chair: Ingo Wolf	Session: Climate Risk <i>Room: G359</i> Chair: Kieran Findlater
	S5-01 Risk and benefit percep- tions of nanotechnology applications in Singapore <u>Gulbanu Kaptan,</u> Saji George, Joel Lee, Lynn J Frewer	S6-01 Where are we at risk? – Spatial risk perception. Stefan Kienberger, <u>Peter Zeil</u>	S7-01 To cluster or not to cluster farmers? Influences on network interactions, risk perceptions, and adop- tion of aquaculture risk management practices Marijn Poortvliet, Olivier Joffre, Laurens Klerkx	S8-01 Acceptability of the use of enhanced weathering to help reduce climate change <u>Elspeth Spence</u> , Nick Pidgeon, Emily Cox
	S5-02 Synthetic biology applied in the agrifood sector: Public perceptions, attitudes and implications for future studies Shan Jin, Beth Clark, Sharron Kuznesof, Xuan Lin, Lynn Frewer	S6-02 Changes on Perceived Risks over time <u>Seda Kundak</u> , Eda Beyazit Ince, Imge Akcakaya Waite	S7-02 Risk perceptions of new transport technologies and services Ingo Wolf	S8-02 Climate Risk, Hot Days and Economic Outcomes: Evidence from a Rep- resentative Sample of 42,152 Indian Households Anthony Heyes
	S5-03 HPV Vaccination Advertisements Focused on Males Lacks Specific Information About HPV Risks and Related Cancers in Men Susan Grantham	S6-03 Risk perception in dealing with High Consequence Infectious Diseases <u>Nadine Müller</u> , Katharina Hodes, Daniela Gröschke, Stefan Strohschneider	S7-03 Towards a more environ- mentally sustainable society: Public percep- tions of strategies to real- ize low material futures Katharine Steentjes, Nick Pidgeon, Catherine Cherry	S8-03 Hazy hedging and cogni- tive thresholds: How South Africa's commercial grain farmers manage weather and climate risks using conservation agriculture <u>Kieran Findlater</u>
		S6-04 PFASs contamination in Italy: analysis of online risk communication Barbara Tiozzo, Mirko Ruzza, Valentina Rizzoli, Luca Lunardi, Licia Ravarotto	S7-04 Public perceptions of gasification technologies and their susceptibility to the 'nasty effect' Christopher Jones, Roh Pin Lee	S8-04 Understanding Catholic engagement on global warming Nicholas Smith

15:30 - 16:00	Coffee break Room: Foyer			
16:00 - 16:40	General Assembly Room: Auditorium			
16:45 - 17:30	Nordic Chapter meeting Room: Vortragssaal 1	Benelux Chapter meeting Room: Vortragssaal 2	Iberian Chapter meeting Room: Vortragssaal 3	DACHL Chapter meeting Room: G359
17:30 - 18:30	Poster Session & Refreshme <i>Room: Restaurant</i>	ents		



TUESDAY

08:30 - 09:00	Registration Room: Foyer					
09:00 - 09:15	SRA-E Awards Ceremony Room: Auditorium					
09:15 - 10:00	Keynote by Andrew Collins: Framing Action Data for Disaster Risk Reduction and Resilience Room: Auditorium					
10:00 - 10:30	Coffee break Room: Foyer					
10:30 - 11:10	Keynote by Manfred Laubic Evolution as 3.5 Billion Year Room: Auditorium					
11:15 - 12:45	Symposium: Transcultural dialogue: Chinese Experiences on Risk Governance in Globalization Context Room: Vortragssaal 1 Chair: Man Fang	Symposium: Systemic Risks I Room: Vortragssaal 2 Chair: Pia-Johanna Schweizer	Symposium: Interaction ('Samhan- dling') under risk – and the Unforeseen I Room: Vortragssaal 3 Chair: Trygve Steiro	Session: Risk Perception III Room: G359 Chair: Anne-Kathrin Fischer		
	S9-01 Design of Social Stability Risk Assessment Indicator System Based on Fuzzy Analytic Hierarchy Process Qiong Li, Jie Yang, Yilin Xiang	S10-01 Systemic Risks: Concept and Implications for Governance Pia-Johanna Schweizer	S11-01 Interaction under risk – and the Unforeseen Glenn-Egil Torgersen, Trygve Steiro	S12-01 Risk Perception of pharmaceuticals in the environment Sílvia Luís, Maria Luísa Lima, Lucia Poggio, Juan Ignacio Aragones, Audrey Courtier, Benoit Roig, Carole Blanchard		

11:15 - 12:45	S9-02 A curse or blessing? The use of social media in risk communication and emergency recovery in China Shuhua Monica Liu, Zui Chen, Xueqi Yu, Liting Pan	S10-02 Global Financial Risks: A Call for Conceptual Break- throughs in Risk Analysis <u>Armin Haas</u> , Manfred Laubichler, Gesine Steudle, Carlo Jaeger	S11-O2 The Relationship Between Stress and Samhandling: Some Challenges for Leaders in High-Risk Organizations Ole Boe	S12-02 The effect of emotions about heat waves on perceived demands, perceived resources, and intentions to take protective action. Samuel Domingos, Wändi Bruine de Bruin, Rui Gaspar, João Marôco
	S9-03 Understanding policy tools for risk manage- ment in China's authori- tarian system: text as data <u>Peng Tao</u>	S10-03 Is Climate Engineering a Systemic Risk? A critique and research framework Sean Low	S11-03 Social Support and Concurrent Learning as Basic Components of Interaction Under Risk Marius Herberg, Glenn Egil Torgersen, Torbjørn Rundmo	S12-03 Determinants of Terror- ism Risk Concern in the USA and Germany over Time Anne-Kathrin Fischer
	S9-04 Transdisciplinary Narra- tive study on Conceptions of Risk Perception based on the Literature in CNKI from 1988 to 2016 Man Fang	S10-04 Social inequality: Systemic risk itself or symptom of the global socio-ecological crisis? Katharina Beyerl, Oliver Putz		
13:00 - 14:00	Lunch Room: Restaurant			
14:00 - 15:30	Symposium: Psychological Aspects of Health-Related Risk Perception and Behavior I Room: Vortragssaal 1 Chair: Bernhard Streicher	Symposium: Plastic – A systemic risk? Public perceptions and governance approaches Room: Vortragssaal 2 Chair: Katharina Beyerl	Symposium: Interaction ('Samhan- dling') under risk – and the Unforeseen II Room: Vortragssaal 3 Chair: Trygve Steiro	Session: Advances in Risk Research Room: G359 Chair: Nick Pidgeon
	S13-01 Risk Culture of laypeo- ple's health - Psycho- logical beliefs, attitudes, and assumptions on health risks Moritz Bielefeld, Bernhard Streicher	S14-01 Environmental plastics: systemic risk or merely a conventional pollution risk? Oliver Putz	S15-01 Interaction in Aerial Warfare: The Role of the Mission Commander in Composite Air Operations (COMAO) Pål Kristian Fredriksen	S16-01 Major Accidents in a Risk Society: Do we Now Need to Search for Safety IV? Nick Pidgeon

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14:00 - 15:30	S13-02 Accuracy in the percep- tion of lifestyle and societal risks: A compari- son between Germany and Israel Josianne Kollmann, Yael Benyamini, Nadine Lages, Luka Johanna Debbeler, Britta Renner	S14-02 Expert Views on Agents and Approaches to Plastic as a Systemic Risk – Results of an Expert Survey in Germany Julia Steinhorst, Katharina Beyerl	S15-02 Creativity draining - Abuse of Skripts in Maritime Collaboration Exercises Leif Inge Magnussen, Jarle Løwe Sørensen, Eric Carlstrøm	S16-02 Frameworks for Decision Analysis with Deepsea Mining Projects - Moving Beyond Precautionary Principles David Good, Kerry Krutilla, Michael Toman, Tijen Arin
	S13-03 Getting (not) what you expect: Risk perception after multiple health risk feedback Luka Johanna Debbeler, Nadine C. Lages, Josianne Kollmann, Harald Schupp, Britta Renner	S14-03 Pathways and governance for sustainable plastics <u>Ellen Palm</u>	S15-03 Interaction in Meeting the Unforeseen- Ways Forward and Possible Contributions Glenn-Egil Torgersen, Trygve Steiro	S16-03 From Global Catastrophe to Emancipation: Projecting Modern Slavery as a World Risk Akilah Jardine, Jamie K. Wardman
		S14-04 Plastic – A systemic risk? Public perceptions and governance approaches. <u>Katharina Beyerl</u>	S15-04 Risk Handling in the Fighter Aircraft Com- munity – An Analysis of Accidents and Severe Incidents with Norwegian F-16 Fighter Aircraft Fredriksen PÅI, Luc Lund Hafseng, Daniel Drageland Markussen, <u>Trygve Steiro</u>	S16-04 Adaptive Control Theory and Index System for Social Stability Risk Assessment of Major Projects: Based on the Typical Cases Peng Li, Jing Fan
15:30 - 15:50	Coffee break Room: Foyer			
15:50 - 17:20	Symposium: Psychological Aspects of Health-Related Risk Per- ception and Behavior II Room: Vortragssaal 1 Chair: Bernhard Streicher	Symposium: Health Risk and Crisis Communication by Government Agencies: Challenges and Perspectives Room: Vortragssaal 2 Chair: Christoph Boehmert	Session: Disaster Risk <i>Room: Vortragssaal 3</i> Chair: Magda Stepanyan	Session: High-Risk Organisations Room: G359 Chair: Nicola Paltrinieri

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15:50 - 17:20	S17-01 Persuasion in praxis: Improving hospital visitors hand hygiene behavior Susanne Gaube, <u>Eva Lermer</u>	S18-01 Improving kitchen hygiene: The transfer of behavioural risk research into risk communication practice Severine Koch, <u>Natalie</u> <u>Berger</u> , Katrin Jungnickel, Ann-Kathrin Lindemann, Mark Lohmann, Gaby-Fleur Böl	S19-01 Emergency Public Infor- mation after Earthquakes: Effects on Seismic Disasters and their Management <u>Anna Fokaefs</u> , Kalliopi Sapountzaki, Athanassios Ganas	S20-01 Dynamic modeling and simulation of LNG regasification terminal for risk assessment <u>Nicola Paltrinieri</u>
	S17-02 Flu vaccination beliefs and herd immunity: Comparing free-riders and prosocial actors Nadine C. Lages, Josianne Kollmann, Luka Johanna Debbeler, Britta Renner	S18-02 Communication of environmental health risks Wolfgang Straff	S19-02 The Choreography of Humanitarian Relief Supply Chains: Utilising the Media and Com- munications Ecosystem in Response to the Haiti Earthquake Ray Grange, Caroline McMullan, Graham Heaslip	S20-02 Embracing tensions: Dealing with safety and security in high-risk organizations Colin Glesner
	S17-03 Concern about safety and health due to the physical living environment <u>Ric van Poll</u> , Oscar Breugelmans	S18-03 Is there a potential for chatbots in governmental risk and crisis communi- cation? <u>Christoph Boehmert</u> , Christiane Poelzl-Viol, Dennis Schwarz	S19-03 The role of Institutional Local Networks on Disaster Logistics <u>Seda Kundak</u> , Eda Beyazit Ince, Huseyin Murat Celik, Yucel Torun, Nergiz Kayki, Halil Ibrahim Ogut	S20-03 Integrated Management of Safety and Security in the European process industry Marja Ylönen
			S19-04 'Risk footprint' as the Principle for Risk Govern- ance: Introduced through the prism of disaster risk reduction Magda Stepanyan, Gianluca Pescaroli	S20-04 Setting the standard: risk and professional practice in the process of standard formation Jan Hayes, Myriam Merad, Sarah Maslen
18:00 - 22:00	River Cruise and Confer- ence Dinner Notice: The ship departs from the pier (Lange Brücke 6, 14467 Potsdam, right beside Hotel Mercure Potsdam) at 18:00			

WEDNESDAY

08:45-09:00	Registration Room: Foyer					
09:00 - 09:15	SRA-E 2019 Closing Ceremo Room: Auditorium	SRA-E 2019 Closing Ceremony and SRA-E 2020 Announcement Room: Auditorium				
09:15 - 10:00	Keynote by Barbara Adam: Risk as Futures Matter Room: Auditorium					
10:00 - 10:30	Coffee break Room: Foyer					
10:30 - 11:20	Panel Discussion Systemic Risks: Challenges for Risk Analysis and Governance Room: Auditorium					
11:30 - 13:00	Session: Systemic Risks II Room: Vortragssaal 1 Chair: Catherine Wong	Session: Cyber Risk II <i>Room: Vortragssaal 2</i> Chair: Piotr Zebrowski	Session: Risk Communication III <i>Room: Vortragssaal 3</i> Chair: Frederic Bouder	Session: Worldviews and decision-making Room: G359 Chair: Oliver Todt		
	S21-01 Systemic Risk, Temporality and Governance: the case of Green Finance Catherine Wong	S22-01 Risk-based selection of mitigation strategies for cybersecurity of electric power systems Alessandro Mancuso, <u>Piotr Zebrowski,</u> Aitor Couce Vieira	S23-01 Algorithms in the context of genetic risk informa- tion (part 1) <u>Frederic Bouder</u> , Sanja Mrksic Kovacevic	S24-01 How worldviews shape the recollection and communication of climate change narratives Gisela Boehm, Hans- Rüdiger Pfister, Andrew Salway, Kjerst Fløttum		

11:30- 13:00	S21-O2 Work-related psycho- social hazards as systemic risk factors Katrin Leifels	S22-02 The relation of cyber risks to traditional risks: an experience of using an extended psychometric model in online survey Kirill Gavrilov, Maria Butynko	S23-02 Algorithms in the context of genetic risk informa- tion (part 2) Sanja Mrksic Kovacevic, Frederic Bouder	S24-02 Decision making styles, demographic factors and phishing: results from a large-scale investigation <u>Angelo Pirrone</u> , Gisela Böhm, Ingvar Tjøstheim
	S21-03 Shaping digital futures – Tackling the systemic risks of digitalisation through deliberative governance <u>Kerstin Fritzsche</u> , Pia-Johanna Schweizer, Daniel Oppold	S22-03 Risk perception and expe- rience of cyber-physical attacks on in-home IoT: A naturalistic field experiment. Nicole Huijts, Antal Haans, Sanja Budimir, Johnny Fontaine, George Loukas, Anatolij Bezemskij, Anne- Marie Oostveen, Ivano Ras, Wijnand IJsselsteijn, Etienne Roesch	S23-03 The Organisational Side of Risk Communication by Public Agencies: A Literature Review Dimitrij Umansky	S24-03 Is the best scientific evidence also the most appropriate evidence? The case of health claims regulation. <u>Oliver Todt</u> , José Luis Luján
			S23-04 Disinformation, fake news, false news and risk communication. Models and lessons learnt Valentin Nicula	
13:00 - 14:00	Lunch Room: Restaurant			

14:00 - 15:30	Session: Food Risk <i>Room: Vortragssaal 1</i> Chair: Manon Racicot	Session: Nuclear Risk <i>Room: Vortragssaal 2</i> Chair: Ferdiana Hoti	Session: Risk in Everyday Life <i>Room: Vortragssaal 3</i> Chair: Ian Dawson	Session: Natural Hazards <i>Room: G359</i> Chair: Ali Vaezi
	S25-01 Quantifying the food safety risk of feder- ally regulated hatcher- ies in Canada using the Establishment-based Risk Assessment Model for Hatcheries (2017 - 2018) Manon Racicot, Alexandre Leroux, Genevieve Comeau, Teresa Cereno, Marie-Lou Gaucher	S26-01 Uncertainty Classification in Nuclear Emergency Management Ferdiana Hoti, Tanja Perko, Peter Thijssen, Ortwin Renn	S27-01 The Influence of Message Repetition on the Willing- ness to Help Individuals at Risk Ian Dawson, Konstantinos Katsikopoulos	S28-01 An Evaluation of the Effectiveness of Top- Down Risk communica- tion of Arsenic to the Public using a case study Sophie Wilson
	S25-02 Street food across Italy: an online national survey to investigate the citizens' opinions and risk perceptions towards this specific food <u>Anna Pinto</u> , Stefania Crovato, Mosè Giaretta, Silvia Marcolin, Giulia Mascarello, Licia Ravarotto	S26-02 One more reflection on Fukushima: Incorporat- ing the conditionality of knowledge into nuclear safety goals Shin-etsu Sugawara	S27-02 Public understanding and experience of household energy saving in the UK George Warren	S28-02 The Challenges of Longitudinal Surveys in the Flood Risk Domain Annergreth Thieken, Philip Bubeck
	S25-03 The influence of food hygiene inspection result on consumers' risk perception and behav- ioural intention: Does the inspection result convey risk? <u>Annukka Vainio</u> , Jenni Kaskela, Eerika Finell, Janne Lundén		S27-03 Determinants of domestic risk prevention behavior: a multi-level approach. Patty Jansen, Chris Snijders, Martijn Willemsen	S28-03 A Risk-based Approach to Planning for Emer- gency Response to Rail Hazmat Incidents Ali Vaezi, Manish Verma
15:30 - 16:00	Coffee break Room: Foyer			

PRESENTING AUTHORS

Bearth, Angela | S1-02 Berger, Natalie | S18-01 Beyerl, Katharina | S10-04; S14-04 Bielefeld, Moritz | S13-01 Boe, Ole | **S11-02** Boehm, Gisela | S24-01 Boehmert, Christoph | S18-03 Bouder, Frederic | S23-01 Brown, Gavin | S2-04 Bubeck, Philip | **S28-02** Buchmüller, Kim | **S2-02** Busby, Jerry | **S4-01** Butvnko, Maria | S22-02 Claasen, Liesbeth | S2-01 Dawson, Ian | **S27-01** Debbeler, Luka Johanna | S13-03 Domingos, Samuel | S12-02 Droy, Solène | S3-O3 Fan, Jing | **S16-04** Fang, Man | **S9-04** Findlater, Kieran | S8-03 Fischer, Anne-Kathrin | S12-03 Fokaefs, Anna | S19-01 Frederiksen, Pål Kristian | S15-01 Fritzsche, Kerstin | S21-03 Gavrilov, Kirill | S22-02 Glesner, Colin | **S20-02** Good. David | **S16-02** Gonzáles-Ortega, Jorge | S4-03 Grange, Ray | **\$19-02** Grantham. Susan | S5-03 Haas, Armin | **S10-02**

Hayes, Jan | **S20-04** Herberg, Marius | **S11-03** Heyes, Anthony | **S8-02** Hoti, Ferdiana | **S26-01** Huijts, Nicole | **S22-03** Jansen, Patty | **S27-03** Jardine, Akilah | **S16-03** Jin, Shan | **\$5-02** Kollmann, Josianne | S13-02 Kaptan, Gulbanu | **S5-01** Kundak, Seda | **S6-02; S19-03** Kuttschreuter, Margôt | **S1-03** Lages, Nadine C. | **\$17-02** Lee, Roh Pin | **S3-01; S7-04** Leifels, Katrin | **S21-02** Lermer. Eva | **S17-01** Li, Qiong | **S9-01** Li, Xiaowei | S2-O3 Liu, Shuhua Monica | **S9-02** Low, Sean | **S10-03** Luís, Sílvia | **S12-01** Magnussen, Leif Inge | S15-02 Mrksic Kovacevic, Sanja | **S23-02** Müller, Nadine | S6-03 Nicula, Valentin | **S23-04** Palm, Ellen | **S14-03** Paltrinieri, Nicola | S20-01 Pidgeon, Nicholas | S16-01 Pinto, Anna | **\$25-02** Pirrone, Angelo | **S24-02** Poortvliet, Mariin | S7-01 Putz, Oliver | **S14-01**

Racicot, Manon | S25-01 Schweizer, Pia-Johanna | S3-02; S10-01 Shalmani. Mohammad Ebrahimnezhad | **S4-03** Siegrist, Michael | S1-01 Smith. Nicholas | S8-04 Spence, Elspeth | S8-01 Steenties, Katherine | S7-03 Steinhorst, Julia | S14-02 Steiro, Trygve | S15-03; S15-04 Stepanyan, Magda | **S19-04** Straff, Wolfgang | **S18-02** Sugawara, Shin-etsu | **S26-02** Tao, Peng | **S9-03** Tiozzo, Barbara | S6-04 Todt. Oliver | **S24-03** Torgersen, Glenn-Egil | S11-01 Umansky, Dimitrij | **S23-03** Vaezi, Ali | **S28-03** Vainio, Annukka | **S25-03** van Poll, Ric | **S17-03** Versluis-Verhagen, Svlvia S2-01 Wardman, Jamie | S3-04; S16-03 Warren, George | **S27-02** Wilson, Sophie | **S28-01** Wolf, Ingo | **\$7-02** Wong, Catherine | **S21-01** Ylönen, Maria | S20-03 Zebrowski, Piotr | **S22-01** Zeil. Peter | **S6-01**

ORGANISERS

Society for Risk Analysis Europe (SRA-E)

The Society for Risk Analysis – Europe aims to bring together individuals and organisations interested in risk analysis in its various facets such as risk assessment, risk management, risk governance and risk communication in Europe.

The Society for Risk Analysis is an interdisciplinary society which addresses emerging issues in risk analysis, management and policy. It operates world-wide and it has many International Sections. The Society encourages those interested in all aspects of risk analysis to communicate, collaborate and develop new methodologies for risk analysis and risk management.

SRA-E shares a commom purpose with SRA and emphasises the European dimension in the promotion of interdisciplinary research and education, and in practical application in society, industry, businesses and the government. It provides a platform for academics and practitioners, policy makers, NGOs members, industry and business administrators and other stake-holders, to discuss future directions, to understand concerns about risk from both public and scientific perspectives, to promote efficient risk mitigation and to develop effective communication about hazards.

http://www.sraeurope.eu/

Institute for Advanced Sustainability Studies e.V. (IASS)

The Institute for Advanced Sustainability Studies conducts research with the goal of identifying, advancing, and guiding transformation processes towards sustainable societies. Its research practice is transdisciplinary, transformative, and co-creative. The institute cooperates with partners in academia, political institutions, administrations, civil society, and the business community to understand sustainability challenges and generate potential solutions.



https://www.iass-potsdam.de/en



Helmholtz-Zentrum Potsdam Deutsches GeoForschungsZentrum (GFZ)

The GFZ is Germany's national research center for the solid Earth Sciences. Our mission is to deepen the knowledge of the dynamics of the solid Earth, and to develop solutions for grand challenges facing society. These challenges include anticipating the hazards arising from the Earth's dynamic systems and mitigating the associated risks to society; securing our habitat under the pressure of global change; and supplying energy and mineral resources for a rapidly growing population in a sustainable manner and without harming the environment.

These challenges are inextricably linked with the dynamics of planet Earth, not just the solid Earth and the surface on which we live, but also the hydrosphere, atmosphere, and biosphere, and the chemical, physical, and biological processes that connect them. Hence, we view our planet as a system with interacting components. We investigate the structure and history of the Earth, its properties, and the dynamics of its interior and surface, and we use our fundamental understanding to develop solutions needed to maintain planet Earth as a safe and supportive habitat.

https://www.gfz-potsdam.de/en/home/

GFZ Helmholtz Centre Potsdam The Society for Risk Analysis Europe invites you to its **29th Annual Conference in Espoo**, Finland. More information and the call for abstracts will be available at **http://www.sraeurope.eu/**. We look forward to seeing you there. Safe travels!

