2025 ANNUAL MEETING

Washington, DC • December 7-10, 2025

CONFERENCE PROGRAM

SRA 2025

What Comes Next?

Washington, DC • December 7-10, 2025

SAVE THE DATE

Society for Risk Analysis

2026 Annual Meeting

December 6-10, 2026

Atlanta Marriott Marquis · Atlanta, GA

Thank you to our 2025 Annual Meeting Sponsors

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Society For Risk Analysis Annual Meeting

2025 Conference Program • December 7-10, 2025

2025 Program Committee

Program Co-Chair:
Benjamin D. Trump

Program Co-Chair:
David R. Johnson

Fabio Massacci
Allison Reily
David Berube
Nancy Beck
Douglas Bessette
Alex Cohen
Benjamin Trump
Jade Mitchell
Kan Shao

SRA Worldwide Headquarters

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Herndon, VA USA 20170
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www.SRA.org, SRA@BurkInc.com

Venue and Room Information

Westin Downtown DC
999 9th St NW
Washington, DC 20001 USA

2025 Council

President: Dr. Jacqueline MacDonald Gibson

President-Elect:
Benjamin D. Trump

Secretary: Ben Rachunok

Treasurer: Jun Zhuang

Past President: Felicia Wu

Ex-Officio Students and Young Professionals Chair:
Sarah Duckett & Mitchell Anderson

Executive Secretary: Brett Burk

Managing Director: Jill Drupa

Councilors

Douglas Bessette
Rui Gaspar
Khara Grieger
Nathalie de Marcellis-Warin
Jade Mitchell
Laura Rickard
Adam Zwickle

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2025 Award Winners

Distinguished Achievement Award
Warner North

Outstanding Practitioner Award
Kenneth Crowther

Chauncey Starr Award
Sayanti Mukherjee

Distinguished Educator Award
Elisabeth Paté-Cornell

Richard J Burk Outstanding Service Award
James Lambert

Fellow
Jade Mitchell
Robert O'Connor
Greg Paoli
Kuen-Yu-Wu
Marja Ylonen

2025 Specialty Group Winners

Advanced Materials and Technologies
Madison Horgan

Hazard and Dose Response
Wei-En Huang
(Runner Up)
Yun-Jhen Li

Economics and Benefits Analysis
Jia Choi

Engineering and Infrastructure
Theo Sprouse
Diako Abbasi
(Honorable Mentions)
Megan Marcellin
Amirreza Mohammadi

Exposure Assessment
Bince Russo Crieta

Foundational Issues in Risk Analysis
Patrick Curran

Hazard and Dose Response
Utkuhan Genc

Justice Equity and Risk
Utkuhan Genc

Microbial Risk Analysis
(Merit Award)
Juan Xu
(Travel Award)
Aishwarya Rao

Security and Defense
Yiqi Zhao

Student and International Travel Award Winners

Bikash Adhikari
Mohammad Ahmadi Gharehtoragh
Parastoo Akbari
Barret Akhatsokhe
Christopher Alegbeleye
Rusu Anca
Yu-Qi Bai
Alantis Baldwin
Samiksha Bhattarai
Monirujjaman Biswas
Jenna Blyler
Emmanuelle Bourigault
Nathalia Canellys
Pablo Cea Frías
Mario Cerna
Liton Chakraborty
Jia Choi
Bince Russo Crieta
Florence Dadzoe
Francesco De Pretis
Tharindu De Silva Manikkuwahandi
Yamil Essus
Hoda Fakhari
Xue Feng
Tommy Gallagher
Utkuhan Genc
Darcy Glenn
Matthew Gunn
Megan Gunn
ChoongHee Han
Kyle Heneveld
Madison Horgan
Hung-Yen Hsu
Wei-En Huang
Joshua Inwald
Yung-Cheng Jair
Kyungjun Jeong
Zachary Kallenborn
Kayla Kendricks
Aaron Khazan
Emma Korein
Alexandros Krassakis
Ngoc Diep Le
Minjung Lee
Camille Levine
Yuhan Li
Yun-Jhen Li
Ziyue Liu
Jonathan Mantey
Megan Marcellin
Joshua McDuffie
Adam Mendler
Emanuele Mezzi
Amirreza Mohammadi
Reyhaneh Mohsenzadeh Yazdi
Lam Nguyen Thi Hong
Seungik Oh
Gigi Pavur
Elizaveta Pinigina
Salvatore Polizzi
Hunter Quon
Aishwarya Rao
Lauren Reising
Poulomee Roy
Marcelle Scadden
Nathan Smith
Theo Sprouse
Ujjwol Subedi
Tyler Swanson
Nurfaidah Tahir
Behnam Tahmasbi
Amy Van Zanen
Meredith Walsh
Joy Jiayi Wang
Lin Wang
Celine Wehbe
Emma Wheeler
Juan Xu
Yingqiang Xu
Yi-Zhen Yang

Committee Meetings and Events

Sunday, December 7

12:00 PM – 5:00 PM
SRA Board Meeting *(By Invitation Only)*
Meeting Room 2

6:00 PM – 7:30 PM
Welcome Reception
Rock Creek Ballroom

Monday, December 8

12:10 PM – 1:25 PM
Specialty Group Meetings
See page 5

5:15 PM – 6:00 PM
Young Professional/Student Mixer
Rock Creek Ballroom

Tuesday, December 9

7:00 AM – 8:00 AM
Specialty Group Chair Breakfast
Redbud

12:00 PM – 1:30 PM
Business Meeting and Awards Lunch
Rock Creek Ballroom

6:30 PM – 9:30 PM
Council Meeting and Dinner *(By Invitation Only)*
Meeting Room 10/11

Childcare
Hickory

Sunday, December 7 *(must be pre-registered)*	8:00 AM – 6:00 PM
Monday, December 8	7:30 AM – 5:00 PM
Tuesday, December 9	7:30 AM – 5:00 PM
Wednesday, December 10	7:30 AM – 5:00 PM

Speaker Ready Room Hours
Sycamore

Sunday, December 7	2:00 PM – 5:00 PM
Monday, December 8	7:00 AM – 5:00 PM
Tuesday, December 9	7:00 AM – 5:00 PM
Wednesday, December 10	7:00 AM – 12:00 PM

Registration Desk Hours
Rock Creek Registration Desk

Sunday, December 7	7:30 AM – 1:30 PM
	4:30 PM – 6:30 PM
Monday, December 8	7:30 AM – 4:00 PM
Tuesday, December 9	8:00 AM – 3:00 PM
Wednesday, December 10	8:00 AM – 3:00 PM

Committee Meetings and Events

Specialty Group Meetings

Monday, December 8

All specialty group meetings will take place during lunch time.
Pick up your box lunch near the registration desk and attend the meeting(s) of your choice.

12:10 PM – 12:45 PM

- Hazard and Dose Response (DRSG)
  River Birch Ballroom A
- Economics & Benefits Analysis (EBASG)
  River Birch Ballroom B
- Occupational Health & Safety (OHSSG)
  Potomac Ballroom Salon 1
- Risk Communication (RCSG)
  Meeting Room 2
- Security & Defense (SDSG)
  Meeting Room 3
- Justice, Equity, and Risk (JERSG)
  Meeting Room 4
- Ecological Risk Assessment (ERASG)
  Meeting Room 5
- Risk, Policy & Law (RPLSG)
  Meeting Room 7
- Foundational Issues in Risk Analysis (FRASG)
  Meeting Room 16

12:50 PM – 1:25 PM

- Exposure Assessment (EASG)
  River Birch Ballroom A
- •
  Applied Risk Management (ARMSG)
  Potomac Ballroom Salon 1
- Decision Analysis and Risk (DARSG)
  Meeting Room 2
- Advanced Materials and Technologies (AMTSG)
  Meeting Room 3
- Resilience Analysis (RASG)
  Meeting Room 4
- Engineering & Infrastructure (EISG)
  Meeting Room 5
- Microbial Risk Analysis (MRASG)
  Meeting Room 16

Specialty Group Mixers

Tuesday, December 9

6:00 PM – 7:30 PM

- Mixer 1: Dose response, Microbial Risk Analysis, Exposure Assessment, Advanced Risk Management
  Magnolia A
- Mixer 2: Security and Defense, Decision Analysis and Risk, Engineering and Infrastructure, Foundational Issues in Risk Analysis
  Magnolia B
- Mixer 3: Ecological Risk Assessment, Risk Communication, Risk & Development, Occupational Health and Safety, Resilience Analysis
  Blossom
- Mixer 4: Economics and Benefits Analysis, Advanced Materials and Technologies, Justice, Equity and Risk, Risk, Policy and Law
  Redbud

Workshops

Sunday, December 7

8:30 AM – 5:30 PM

Workshop 1: From Modeling to Prediction: A Comprehensive Bayesian Dose-Response Modeling System to Advance Chemical Risk Assessment

Kan Shao

Meeting Room 3

This full-day workshop will begin with an introduction on the benchmark dose modeling in a Bayesian framework and then provide participants with hands-on experience of using the Bayesian Benchmark Dose modeling (BBMD) system to perform dose-response assessment using dichotomous, continuous, and categorical dose-response data from toxicological or epidemiological studies. The workshop will cover a number of important topics in Bayesian BMD modeling, including using Markov Chain Monte Carlo (MCMC) algorithm to fit dose-response models, using appropriate statistics to evaluate goodness of fit, estimating the distributions of model parameters and quantities of interest (e.g., BMD), calculating model averaged BMD estimates to take model uncertainty into account, and probabilistic low-dose extrapolation, etc. The workshop will extensively explore the major functionalities of the BBMD system for dose-response assessment through case studies: (1) for toxicological data, BMD analysis of single and multiple datasets for dichotomous, continuous, and categorical data will be discussed and practiced; (2) for epidemiological data, BMD modeling with quantification for exposure uncertainty will be explored. Additionally, the workshop will cover a newly developed function that allows users to conveniently use the BBMD system to model dose-response data in EPA's BMDS system and comparing results with comments and suggestions on the modeling results. In short, the workshop will provide participants with both theoretical and practical skills of using the BBMD system for dose-response assessment.

8:30 AM – 5:30 PM

Workshop 3: Integrative Approaches to Human Health and Environmental Risk Assessment: From Regulatory Foundations to Emerging Applications

Abdel-Razak Kadry, Babasaheb (Bob) Sonawane

Meeting Room 5

This dynamic full-day workshop offers a comprehensive exploration of environmental health risk assessment approaches, bridging regulatory context and principles with cutting-edge applications across health and environmental domains. Designed for graduate students and professionals (academic, private industry, and government) at all career stages—from early-career scientists to seasoned regulators—the workshop provides foundational knowledge on how environmental chemical exposures (acute and chronic) could affect human health and ecosystems.

The workshop will present current risk assessment processes used by U.S. regulatory agencies (EPA, FDA) and international bodies (IARC, WHO, EFSA, Codex), with emphasis on both qualitative and quantitative approaches for hazard identification, dose-response modeling, exposure assessment, and risk characterization. It will examine microbial, chemical, and pesticide risks in water, food, and ecological habitats and how the "weight of evidence" informs regulatory decisions.

A special focus will be placed on risk communication, including an interactive session to build skills in conveying scientific findings to diverse stakeholders amid uncertainty and misinformation.

8:30 AM – 5:30 PM

Workshop 4: Tutorial on Influence Diagrams: From Basic Shapes to Software Solutions

Cameron MacKenzie

Meeting Room 6

Influence diagrams, also known as Bayesian belief networks, are extremely useful tools in risk analysis. They can incorporate several uncertain factors, combine data and expert opinion, and facilitate Bayesian analysis to update probabilities. However, many risk professionals have little-to-no knowledge about influence diagrams or know how to create an influence diagram to calculate the probability of a risk or the consequences that may arise from the risk. This workshop will teach attendees about influence diagrams by beginning with the basic shapes in influence diagrams and finishing by showing them how to use Netica software to solve influence diagrams.

This workshop will introduce the four basic node types for influence diagrams: uncertainty or chance nodes, decision nodes, deterministic nodes, and value nodes. Arcs or arrows can have different meanings depending on the type of nodes that they connect. Influence diagrams link different factors together via conditional probabilities. Attendees at the workshop will practice creating influence diagrams for different risks in engineering and infrastructure, securityand defense, and ecology and climate. These examples will demonstrate risk problems with no decisions, with one decision, with sequential decisions, and for single and multiple criteria.

Although influence diagrams represent an easier method to visualize a problem than with a mathematical model, influence diagrams can be very difficult to solve without computer software. Attendees will learn how to use Netica software (which can be downloaded for free for limited-size problems) to solve influence diagrams and identify the optimal risk management alternative for complex, uncertain risks.

Workshops

Sunday, December 7

8:00 AM – 12:00 PM

Workshop 6: Eliciting Judgments from Experts and Non-experts

Aylin Sertkaya, Cristina McLaughlin, and Frank Hearl

Meeting Room 16

Decision makers must frequently rely on data or information that is incomplete or inadequate in one way or another. Judgment, often from experts and occasionally from nonexperts, then plays a critical role in the interpretation and characterization of those data as well as in the completion of information gaps. But how experts or non-experts are selected, and their judgments elicited matters – they can also strongly influence the opinions obtained and the analysis on which they rely. Several approaches to eliciting judgments have evolved. The workshop will cover topics ranging from recruitment, elicitation protocol design, different elicitation techniques (e.g., individual elicitations, Delphi method, nominal group technique, and focus groups) to aggregation methods for combining opinions of multiple individuals. The role of judgment elicitation and its limitations, problems, and risks in policy analysis will also be addressed. The workshop will include presentation of two case studies that will include a discussion of the selection process; elicitation protocol development, elicitation technique utilized, and the various issues that arose before, during, and after the elicitation process and the way they were resolved. The class will also include two hands-on exercises where participants will 1) learn about calibration of experts using a mobile application and 2) apply the Delphi and nominal group techniques to examine risk management issues associated with a popular topic.

8:00 AM – 12:00 PM

Workshop 7: A Strategic Approach to Risk-Related Communication

John Besley

Meeting Room 7

This workshop will provide participants with an evidence-based and strategic way of thinking about risk-related communication. It is meant for scientists and communication practitioners who want to move beyond just 'raising awareness,' 'correcting misinformation,' or 'telling stories,' and think more deeply about what they want to achieve when putting resources into communication. Building on the book 'Strategic Science Communication,' the workshop will draw on key insights from theories of behavior change and trust to provide a framework for making communication decisions in the context assessing and managing risk. The workshop will combine brief content overviews with hands-on activities and discussion to help participants address their real-world communication challenges.

1:00 PM – 5:00 PM

Workshop 8: The Epistemology of Risk Analysis in the Social Sciences: Bridging Fields, Building Insight

Ruo Alex Jia, Runhuan Feng, and, Tianyang Wang

Meeting Room 7

What does risk mean from different perspectives within the social sciences, and why does it matter? This engaging workshop welcomes participants at all levels and explores how three major disciplines within social sciences conceptualize and analyze risk in distinct yet complementary ways. These include actuarial science, insurance economics, and financial risk management. Participants will gain a broader understanding of each field's research questions, methodologies, data sources, and publication outlets. The goal is to spark interdisciplinary thinking and inspire new research directions.

We will explore how actuarial science quantifies risk by assessing the likelihood and financial impact of uncertain events using probability analysis, how insurance economics analyzes risk by examining how contracts and markets are structured to allocate it efficiently and enhance social welfare, and how financial risk management addresses risk by identifying, measuring, and managing exposures within complex and interconnected financial systems.

Each topic will be presented in a one-hour session consisting of forty-five minutes of lecture followed by fifteen minutes of open discussion. Optional hands-on exercises will be available for participants interested in applying the concepts. Two informal networking breaks will offer opportunities to connect with instructors and fellow attendees.

Whether you are pursuing interdisciplinary research, exploring new methodological approaches, or simply curious about how different fields understand and manage risks, this workshop offers both insight and inspiration.

Keynote Sessions

Monday, December 8

8:30 AM – 10:00 AM

Advancing Systemic Risk Governance for a Resilient Future

Potomac Ballroom

Growing systemic risks, from climate impacts and infrastructure interdependencies to financial vulnerabilities, are reshaping how governments, development banks, and international organizations plan, invest, and deliver essential services. This plenary brings together global leaders who are driving the transition toward more integrated and forward-looking risk governance.

The session will be guided around two core questions:

1. How can organizations manage day-to-day operations while they transition toward advanced systemic risk management approaches?

2. How can interconnectedness across economic, financial, climate, and infrastructure systems be modeled and integrated into practical decision-making?

Together, the keynotes and discussion will provide strategic and actionable insights for researchers, policymakers, and practitioners working to strengthen resilience in an increasingly complex world.

Moderator

Igor Linkov,
U.S. Army Corps of Engineers,Carnegie Mellon University

Speakers

Jordan Schwartz, Inter-American Development Bank (IADB)
Abhilash Panda, UN Office for Disaster Risk Reduction (UNDRR)

Wednesday, December 10

12:00 PM – 1:30 PM

On the Ground: Moving from Risk Insight to Resilient Action

Rock Creek Ballroom

Dr. Horton will bring practice into focus by showing how risk insights become real-world action in infrastructure, communities, and organizations. He will highlight how planning, coordination, training, and partnerships help everyone from engineers to everyday citizens be better prepared. He will also discuss how critical infrastructure hubs like airports can harness emerging data science and artificial intelligence to improve safety, optimize operations, and anticipate disruptions before they occur. These tools are transforming how complex systems like DFW manage weather, logistics, and passenger flows, demonstrating how innovation turns information into readiness.

Speakers

Robert Horton, Dallas-Fort Worth International Airport
LTG (ret.) Thomas Bostick, Bostick Global Strategies

YOU'RE INVITED!

Join us on-site to share your research and reflect on SRA 2025. Tell us...what's next for risk science? SRA's podcast *Let's Talk Risk* will be recording content throughout the conference.

Visit our satellite studio!

LET'S TALK RISK

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Exhibitors

Applied Risk Management Specialty Group (ARMSG)

PO Box 540192
Houston, TX, 77254

The Applied Risk Management Specialty Group is where the rubber meets the road — translating risk analysis into action. Our objectives are to:

- facilitate the exchange of ideas and tools among risk management practitioners and technical risk analysis specialists;
- encourage collaborative and interdisciplinary research on applied risk management concepts, terminology, and frameworks that promote understanding and effective use of risk management practices; and
- provide active, worldwide leadership that promotes risk management as an effective approach for addressing a wide range of technically and socially complex problems facing the world today.

Toxicology Education Foundation (TERA)

4303 Kirby Avenue
Cincinnati, OH 45223
tera.org
513-542-7475

TERA was founded on the belief that an independent non-profit organization can provide a unique function to protect human health by conducting scientific research and development on risk issues in a transparent and collaborative fashion and communicating the results widely.

Exhibition
Rock Creek Foyer

Monday, December 8 . . . . 10:00 AM – 4:00 PM
Tuesday, December 9 . . . . . 9:30 AM – 4:00 PM
Wednesday, December 10 . . 9:30 AM – 4:00 PM

University of Cincinnati, Lindner Center for Insurance & Risk Management

2906 Woodside Drive
PO Box 210020
Cincinnati, OH 45221
www.business.uc.edu/about/centers-partnerships/insurance-and-risk-management.html
513-556-7852

Named a Global Center of Insurance Excellence (GCIE) by the International Insurance Society, the Lindner Center for Insurance and Risk Management is an industry-leading research center that seeks to understand, analyze and improve how economies, corporations and individuals manage risk.

By engaging faculty and students throughout the University of Cincinnati and (inter)nationally recognized scholars in insurance and risk management research and collaboration, as well as cultivating industry partnerships, the Center is the premier provider of thought leadership through high-impact risk research and exchange of knowledge between academia and industry..

Coffee Breaks
Rock Creek Foyer

AM Coffee Breaks . . . . . 10:00 AM – 10:30 AM
PM Coffee Breaks . . . . . 3:00 PM – 3:30 PM

University of Michigan

1109 Geddes Avenue
Ann Arbor, MI 48109-1079
cee.engin.umich.edu/research/infrastructure/hazards-risks-and-resilience/
734-764-1817

The University of Michigan created new Masters and PhD programs in Hazards, Risk, and Resilience. Stop by the table to learn more about this exciting program at one of the leading research universities in the U.S. or just to get some free SWAG.

USACE ERDC Risk & Decision Sciece Team

3909 Halls Ferry Road
Vicksburg, MS 39180
riskdecision.el.erdc.dren.mil

The U.S. Army Engineer Research and Development Center helps solve our nation's most challenging problems in civil and military engineering, geospatial sciences, water resources, and environmental sciences for the Army, Department of Defense, civilian agencies, and our Nation's public good. Our vision is to become the world's premier public engineering and environmental sciences research and development organization.

8:30 AM-10:00 AM **Plenary Session** – Advancing Systemic Risk Governance for a Resilient Future, *Potomac Ballroom*

10:00 AM-10:30 AM **Coffee Break**, *Rock Creek Foyer*

	River Birch Ballroom A	River Birch Ballroom B	Potomac Ballroom	Meeting Room 2
10:30 AM – 12:00 PM	M2-A: Air Quality and Risk	M2-B: Flood Risk and Compound Hazards	M2-C: Roundtable: Building Human Capacity During and After High-Stress Events	M2-D: Space Exploration, Autonomous Vehicles, and Emerging Materials
12:00 PM – 1:30 PM	Pick up your box lunch near the registration desk and attend the specialty group meeting(s) of your choice. 12:10 PM-12:45 PM – Hazard and Dose Response (DRSG), Economics & Benefits Analysis (EBASG), Occupational Health & Safety (OHSSG), Risk, Policy & Law (RPLSG), Security & Defense (SDSG), Justice, Equity, and Risk (JERSG), Ecological Risk Assessment (ERASG), Foundational Issues in Risk Analysis (FRASG) 12:50 PM-1:25 PM – Exposure Assessment (EASG), Risk Communication (RCSG), Applied Risk Management (ARMSG), Decision Analysis and Risk (DARSG) , Advanced Materials and Technologies (AMTSG), Resilience Analysis (RASG), Engineering & Infrastructure (EISG), Microbial Risk Analysis (MRASG)			
1:30 PM-3:00 PM	M3-A: Interdisciplinary Aspects of PFAS Risks	M3-B: Local Knowledge and Justice Perspectives on Climate Adaptation	M3-C: Roundtable: Planning for The Day After: Rebuilding a Risk Management and Risk Regulatory System out of the Ashes	M3-D: Finance and Technology Risks

3:00 PM-3:30 AM **Coffee Break**, *Rock Creek Foyer*

3:30 PM – 5:00 PM	M4-A: Roundtable: Communicating Risk in a Time of Division, Distrust, and Disruption	M4-B: Global Approaches to Climate Adaptation and Natural Hazards Management	M4-C: Roundtable: Reflections on the State of Equity-Based Work and Paths Forward	M4-D: Bioengineering Foods, Crops & Governance

6:00 PM-8:00 PM **Poster Session and Reception**, *Rock Creek Ballroom*

8:30 AM-10:00 AM **Plenary Session** – Advancing Systemic Risk Governance for a Resilient Future, *Potomac Ballroom*

10:00 AM-10:30 AM **Coffee Break**, *Rock Creek Foyer*

	Meeting Room 3	Meeting Room 4	Meeting Room 5	Meeting Room 16
10:30 AM – 12:00 PM	M2-E: Risks Associated with Drinking Water	M2-F: Roundtable: The Changing Landscape on Weather and Climate Information: What are the Implications for Market Responses to Extreme Weather Events?	M2-G: Risk and Science Communication on Digital Platforms	M2-H: Bayesian Methods for Quantitative Risk Analysis
12:00 PM – 1:30 PM	Pick up your box lunch near the registration desk and attend the specialty group meeting(s) of your choice. 12:10 PM-12:45 PM – Hazard and Dose Response (DRSG), Economics & Benefits Analysis (EBASG), Occupational Health & Safety (OHSSG), Risk, Policy & Law (RPLSG), Security & Defense (SDSG), Justice, Equity, and Risk (JERSG), Ecological Risk Assessment (ERASG), Foundational Issues in Risk Analysis (FRASG) 12:50 PM-1:25 PM – Exposure Assessment (EASG), Risk Communication (RCSG), Applied Risk Management (ARMSG), Decision Analysis and Risk (DARSG) , Advanced Materials and Technologies (AMTSG), Resilience Analysis (RASG), Engineering & Infrastructure (EISG), Microbial Risk Analysis (MRASG)			
1:30 PM-3:00 PM	M3-E: Pandemics - Risks and Challenges	M3-F: Natural Hazards, Homeland Security, and Analytics	M3-G: Energy Communication	M3-H: Modeling Complexity for Systems and Networks

3:00 PM-3:30 AM **Coffee Break**, *Rock Creek Foyer*

3:30 PM – 5:00 PM	M4-E: Quantitative Microbial Risk Assessment	M4-F: Symposium: Risk, Resilience, and Water Infrastructure	M4-G: Land, Farms, Weather & Energy	M4-H: AI and Its Intersection with the Social Sciences

6:00 PM-8:00 PM **Poster Session and Reception**, *Rock Creek Ballroom*

	River Birch Ballroom A	River Birch Ballroom B	Potomac Ballroom	Meeting Room 2
8:30 AM – 10:00 AM	T1-A: Advances in Chemical Risk Assessment	T1-B: Data, Policy, and Technology in Wildfire Resilience	T1-C: Roundtable: Security and Risk: Bridging Concepts and Practice	T1-D: AI Technology Risk
10:00 AM-10:30 AM	**Coffee Break,** *Rock Creek Foyer*			
10:30 AM – 12:00 PM	T2-A: Computational Approaches and Tools for Chemical Risk Assessment	T2-B: Climate, Connectivity, and Crisis: Evolving Risks and Solutions in Emergency Infrastructure	T2-C: Roundtable: Sustainable Product Development: Life Cycle Impact Assessment and Risk Assessment Perspectives	T2-D: Symposium: Frontiers in AI Security and Risk Analysis
12:00 PM-1:30 PM	**SRA Business Meeting and Awards Lunch,** *Rock Creek Ballroom*			
1:30 PM-3:00 PM	T3-A: Quantitative Chemical Risk Analysis	T3-B: From Vulnerability to Recovery: Modeling Infrastructure Risk in Complex Hazard Environments	T3-C: Roundtable: Safer and More Sustainable by Design (SSbD): Addressing Advanced Manufacturing in Emerging Frameworks Risk and Sustainability Across the Product Life Cycle	T3-D: Symposium: Analyzing Risks in the AI Era: Models from Cyber, Supply Chains, and Infrastructure
3:00 PM-3:30 AM	**Coffee Break,** *Rock Creek Foyer*			
3:30 PM-5:00 PM	T4-A: Roundtable: Is Hazard the New Risk? Trends in Evolving Science, Public Policy, and Acceptable Risk: From Science to Policy	T4-B: Housing Transitions in a Changing Climate: Risk, Recovery, and Resilience	T4-C: Occupational Health Risks	T4-D: Symposium: Risk and Resilience Analysis of AI Systems for Critical Infrastructures
6:00 PM-7:30 PM	**Specialty Group Mixers,** *see page 6*			

	Meeting Room 3	Meeting Room 4	Meeting Room 5	Meeting Room 16
8:30 AM – 10:00 AM	T1-E: Public Health, Mortality & Medicine	T1-F: Resilience Science and Systems Thinking	T1-G: Climate Communication I	T1-H: Symposium: Quantifying Access to Essential Services
10:00 AM-10:30 AM	**Coffee Break,** *Rock Creek Foyer*			
10:30 AM – 12:00 PM	T2-E: Roundtable: Balancing Innovation and Oversight of Alternative Proteins	T2-F: Risk and Resilience Theory Analytics	T2-G: Climate Communication II	T2-H: Roundtable: The Future of Risk Analysis: Perspectives from Emerging Risk Professionals
12:00 PM-1:30 PM	**SRA Business Meeting and Awards Lunch,** *Rock Creek Ballroom*			
1:30 PM-3:00 PM	T3-E: Risk Assessment for Food Safety	T3-F: Conflict, Defense and Geopolitics	T3-G: Understanding Risk in Everyday Decisions: Food, Environment, and Emergencies	T3-H: Symposium: Stakeholder Engagement in Emerging Technologies Strategies, Challenges, and Lessons Learned
3:00 PM-3:30 AM	**Coffee Break,** *Rock Creek Foyer*			
3:30 PM-5:00 PM	T4-E: Symposium: Residues, Risk Assessment, and Regulations: Bridging Global Gaps in Food Safety Standards	T4-F: Emerging Challenges for Complex Systems and Extreme Risk	T4-G: Emergency Risk Communication	T4-H: Symposium: Talc Around Us: Using Risk Assessment to Navigate Hazards
6:00 PM-7:30 PM	**Specialty Group Mixers,** *see page 6*			

	River Birch Ballroom A	River Birch Ballroom B	Potomac Ballroom	Meeting Room 2
8:30 AM-10:00 AM	W1-A: Roundtable: Beyond Exposure - What Makes a Climate Haven?	W1-B: Sustainable and Resilient Water Resources Management	W1-C: Lightning Talks #1	W1-D: Cyber and Digital Risks
10:00 AM-10:30 AM	**Coffee Break**, *Rock Creek Foyer*			
10:30 AM – 12:00 PM	W2-A: Risk and Deep Uncertainty - Disasters and Stochasticity	W2-B: Climate Finance for Hazards and Energy	W2-C: Lightning Talks #2	W2-D: Crisis Preparedness and Systemic Risks
12:00 PM – 1:30 PM	**Plenary Lunch** – On the Ground: Moving from Risk Insight to Resilient Action, *Rock Creek Ballroom*			
1:30 PM-3:00 PM	W3-A: Advances in Risk and Resilience Practice	W3-B: Symposium: AI for Critical Infrastructure Resilience: Enhancing Adaptive Capacity to Weather Extremes	W3-C: Roundtable: Space Risks	W3-D: Symposium: Evaluating the Resilience of a Supply and Demand Network of Critical Materials by Direct Observation, Graph Analysis, and Agent-Based Stress Testing
3:00 PM-3:30 AM	**Coffee Break**, *Rock Creek Foyer*			
3:30 PM-5:00 PM	W4-A: Risk and Resilience Methodologies for Organizations	W4-B: Symposium: Enhancing Resilience to Climate Risks in Most Vulnerable Territories: Does Cultural Heritage, When Integrated With Other Approaches, Contribute to Comprehensive Adaptation Pathways?	W4-C: Modeling Infrastructure Risk and Resilience: From Networks to Communities	W4-D: Symposium: Risk Analysis of Critical Infrastructure: Leveraging Function-driven Ontologies and Graph Databases

	Meeting Room 3	Meeting Room 4	Meeting Room 5	Meeting Room 16
8:30 AM-10:00 AM	W1-E: Developments in Risk Theory and Misinformation	W1-F: Symposium: Innovative Methods Supporting Resilience of Enterprise Systems	W1-G: Democratizing Risk	W1-H: Roundtable: Entangling or Disentangling: How to Improve Mutual Understanding Between Risk Assessment and Risk Management
10:00 AM-10:30 AM	**Coffee Break**, *Rock Creek Foyer*			
10:30 AM – 12:00 PM	W2-E: Equitable Access to Critical Infrastructure in an Era of Disasters	W2-F: Symposium: Exploring Public Attitudes Toward Contemporary Risks	W2-G: Trust, Power & Politics of Risk	W2-H: Symposium: Current Issues in Benefit-Cost Analysis
12:00 PM – 1:30 PM	**Plenary Lunch** – On the Ground: Moving from Risk Insight to Resilient Action, *Rock Creek Ballroom*			
1:30 PM-3:00 PM	W3-E: Roundtable: The Inherent Normativity of Risks. Ethical Reflections on Risk Assessment	W3-F: Symposium: Quantifying Risk, Resilience, and Impacts in Communities and Infrastructure Systems	W3-G: Hydrogen and Power Grids	
3:00 PM-3:30 AM	**Coffee Break**, *Rock Creek Foyer*			
3:30 PM-5:00 PM	W4-E: Health Risk Analysis and Communication	W4-F: Symposium: Risk Analysis in the Arctic	W4-G: Public Perceptions of Emerging Risks	

Technical Program

10:30 AM – 12:00 PM

M2-A
Air Quality and Risk

River Birch Ballroom A

Chair: Lam Nguyen Thi Hong

10:30 am **M2-A.1**
Temporal and Spatial Variations and Health Risk Assessment of Non-Carcinogenic VOCs in Taiwan: A Preliminary Study with Machine Learning
Lam Nguyen Thi Hong
National Taiwan University

10:50 am **M2-A.2**
Effects of technological changes on exposure to air pollutants from Marcellus and Utica shale development, 2004-2023
Jeremy Gernand
Penn State University

11:10 am **M2-A.3**
Decoding air toxics: providing actionable and accessible information to inform Colorado's air toxics program
Rachel Burmeister
CDPHE

11:30 am **M2-A.4**
Applications of statistical analysis methods to sparse data at low fine particulate matter concentrations
Jacob Kremer
Exponent, Inc.

10:30 AM – 12:00 PM

M2-B
Flood Risk and Compound Hazards

River Birch Ballroom B

Chair: TBD

10:30 am **M2-B.1**
Surrogate Modeling to Evaluate Future Flood Risk and the Impact of Coastal Restoration and Risk Reduction Projects
Mohammad Ahmadi Gharehtoragh
Purdue University

10:50 am **M2-B.2**
Efficient Regional Storm Surge Surrogate Model Development Strategy Under Evolving Landscape and Climate Scenarios
Ziyue Liu
Purdue University

11:10 am **M2-B.3**
Quantifying uncertainty in probabilistic flood risk assessment for critical infrastructure
Yingqiang Xu
Vanderbilt University

11:30 am **M2-B.4**
Evidence of Time-frequency dependency between Septic failure and Hydroclimatic Stressors in coastal Virginia
Jerin Tasnim
University of Maryland

11:50 am **M2-B.5**
A Probabilistic Framework for the Analysis of the Performance of Distributed Infrastructure Systems under Spatially Correlated Compound Hazards
Amirreza Mohammadi
University of Maryland, College Park

10:30 AM – 12:00 PM

M2-C
Roundtable: Building Human Capacity During and After High-Stress Events

Potomac Ballroom

When we talk about resilience, we often refer to physical infrastructures, bridges, hospitals, and power grids, engineered to absorb shocks and recover quickly. Yet the most vital and complex system in any high-stress environment is human. Whether responding to disasters, leading and supporting critical missions, or maintaining operations in high-risk sectors, human resilience is what may determine overall success or failure.

This session explores how resilience can be and is intentionally designed into the human components of critical systems. We shift the focus from infrastructure alone to the capacity of individuals and teams to function under extreme pressure, make decisions in uncertainty, and recover in ways that sustain both health and performance over time.

Bringing together experts across a wide range of backgrounds, technology development, resilience science, Urban Search and Rescue, psychology, and public health, the panel will discuss practical strategies for fostering mental, emotional, and operational resilience within mission-critical professions. Panelists will explore emerging research and real-world case studies from prospective sectors.

This is a timely discussion for professionals in preparedness, workforce culture, risk management, and operational safety, but its relevance extends beyond. As the world confronts increasingly complex and interconnected threats, resilience must be intentionally designed, and most importantly, it must center the people at the heart of every system.

Panelists:

- JoesephBarbera, George Washington University
- Emily Wells, Colorado State University
- Thomas Janisko, USACE

10:30 AM – 12:00 PM

M2-D
Space Exploration, Autonomous Vehicles, and Emerging Materials

Meeting Room 2

Chair: Julia Griffin

10:30 am **M2-D.1**
Resiliency approaches to unmanned autonomous system surveillance missions
Michael Gaiewski
Credere Associates LLC

10:50 am **M2-D.2**
Risk-Informed Decision-Making for Lunar Site Planning and Sampling
Caitlin Ahrens
CRESST-II/NASA GSFC

11:10 am **M2-D.3**
MARS RISK INDEX, a Societal Readiness & Risks from Mars human exploration and settlement
Alexandros Krassakis
Space Risk Institute & Mars Society Hellas

11:30 am **M2-D.4**
Life-cycle risk assessment of second-generation cellulose nanomaterials
Julia Griffin
Vireo Advisors, LLC

Technical Program

10:30 AM – 12:00 PM

M2-E
Risks Associated with Drinking Water

Meeting Room 3

Chair: Kate Wernicke

10:30 am **M2-E.1**
Experimental Evidence of Disinfection Byproduct-Induced Antimicrobial Resistance in Biofilm-Associated Pseudomonas aeruginosa: Implications for Risk Assessment
Negin Iranpour Boroujeni
Ohio State University

10:50 am **M2-E.2**
Development of a biofilm mimetic model for simulating Legionella pneumophila release and risk in building plumbing systems
Juan Xu
The Ohio State University

11:10 am **M2-E.3**
Exploring emerging contaminant exposure in a drinking water risk-prioritization framework
Emily Julien
Michigan State University

11:30 am **M2-E.4**
Exploring toxicity and health criteria for the prioritization of emerging contaminants in a drinking water system
Kate Wernicke
Michigan State University

11:50 am **M2-E.5**
Nationwide assessment of Water Quality Parameters and the Effects of Legionellosis
Alexis Mraz
The College of New Jersey

10:30 AM – 12:00 PM

M2-F
Roundtable: The Changing Landscape on Weather and Climate Information: What are the Implications for Market Responses to Extreme Weather Events?

Meeting Room 4

Many aspects of Americans' health, security and economic wellbeing are highly interdependent with climate and weather. Stakeholders rely on various data sources, modeling, and analysis to guide their risk-related decision making and conduct, especially in the context of unusual or extreme weather events (EWE) such as heatwaves, droughts, hurricanes, floods, tornadoes, and wildfires. Information, data, and modelling from various sources including the federal and state governments are critical to private and public planning and response activities. These activities span EWE preparedness, prediction, mitigation, and remediation and the market products that support these risk-management functions. EWE informational resources, however, are undergoing substantial changes in their availability and sponsorship. This roundtable will address the implications of the changing landscape for risk-related information from various perspectives and the market responses that we might expect from certain business and insurance stakeholders as the availability of EWE information shifts.

Panelists will address (1) recent or likely changes in EWE informational resource availability, (2) the implications for business expectations regarding their risks and needs for insurance coverage and (3) how this might matter for existing and future insurance product performance and development.

Panelist 1:

- Kelsey Malloy
- Holly Dethero Bailey, Berkeley Research Group
- Scott Patterson

10:30 AM – 12:00 PM

M2-G
Risk and Science Communication on Digital Platforms

Meeting Room 5

Chair: Jon Benedik Bunquin

10:30 am **M2-G.1**
Social media communication before, during and after a rural tornado: A case study
Cory Armstrong
University of Nebraska-Lincoln

10:50 am **M2-G.2**
Amplifying alarm or action? Threat and efficacy messaging in infectious disease TikTok videos
Xuan Qian
Cornell University

11:10 am **M2-G.3**
Funny, felt, familiar: Memetic communication, trust in experts, and risk perception in short video-based social media
Jon Benedik Bunquin
University of the Philippines

11:30 am **M2-G.4**
A Justifiable Explanation Is the Key: Facilitating Public Acceptance of AI-Generated Images in Disaster News Coverage
Yuhan Li
University of Michigan – Ann Arbor

11:50 am **M2-G.5**
A social media affordances approach towards understanding how online science observation shapes normative perceptions of risk communication and trust in scientists
Annie Zhang
University of Washington

10:30 AM – 12:00 PM

M2-H
Bayesian Methods for Quantitative Risk Analysis

Meeting Room 16

Chair: TBD

10:30 am **M2-H.1**
Risk Assessment for Polyethoxylated Tallow Amine Using the Bayesian Statistics Benchmark Dose Method
Yung-Cheng Jair
Institute of Toxicology, College of Medicine, National Taiwan University, Taipei City, 10051 Taiwan

10:50 am **M2-H.2**
A Multi-Criteria Vulnerability Mapping Tool (VMT) for Prioritizing Abandoned Mine Land Remediation Integrated with Predictive Modeling
Emma Bonham
Arizona State University

11:10 am **M2-H.3**
Annealed Bayesian Bias Assessment in Epidemiological Studies
Matthew Wheeler
ToxStrategies

11:30 am **M2-H.4**
Probabilistic Dietary Risk Assessment of Ochratoxin A in Major Food Groups using Censored-data Methods
Bince Russo Crieta
National Taiwan University

1:30 PM – 3:00 PM

M3-A
Interdisciplinary Aspects of PFAS Risks

River Birch Ballroom A

Chair: Lin Wang

1:30 pm **M3-A.1**
Growth Curve-Informed Probabilistic Risk Assessment of Infant Exposure to PFAS in Breastmilk: An International Comparative Study
Ngoc Diep Le
National Taiwan University

1:50 pm **M3-A.2**
The interplay of scientific discovery, conflicting information, and attribution of responsibility in PFAS risk communication
Laura Rickard
University of Maine

2:10 pm **M3-A.3**
Assessing Per- and Polyfluoroalkyl Substances (PFAS) Concentrations and Source Apportionment in Wastewater-Impacted North Carolina Surface Waters
Jacelyn Rice-Boayue
North Carolina State University

2:30 pm **M3-A.4**
PFAS risk in Tennessee drinking water supply: a data-driven approach to identify vulnerable communities
Paul Johnson
Vanderbilt University

2:50 pm **M3-A.5**
Assessing Features of PFAS Groundwater Occurrence Using SHAP-Enhanced Machine Learning
Lin Wang
New Mexico State University

1:30 PM – 3:00 PM

M3-B
Local Knowledge and Justice Perspectives on Climate Adaptation

River Birch Ballroom B

Chair: TBD

1:30 pm **M3-B.1**
A Network-Science Approach to Critical Infrastructure Service Resilience
Beth Ellinport

1:45 pm **M3-B.2**
Integrating equity and community perspectives in seismic retrofit decisions
Utkuhan Genc
Purdue University

1:30 PM – 3:00 PM

M3-C
Roundtable: Planning for The Day After: Rebuilding a Risk Management and Risk Regulatory System out of the Ashes

Potomac Ballroom

The Trump administration is in the process of dismantling, cutting, or dramatically restructuring government agencies and functions that have historically played significant roles in risk regulation and other forms of risk management. This creates new threats (e.g., inadequate attention to some potentially urgent hazards in the short term; loss of tacit knowledge and institutional memory, which may make some functions difficult to reconstitute in the longer term), but also opportunities (since many government agencies and functions have been legitimately criticized for being overly slow and bureaucratic; moreover, regulations from one agency or department may be inconsistent with or in conflict with the regulations or management efforts of others). This round table will bring together experts to be drawn from a variety of areas (e.g., public health and pandemic response, occupational health and safety, environmental health, food safety, nuclear safety, climate change, emergency preparedness and response, and international development) that have already seen drastic changes in the relevant agencies. The goal of the roundtable is to create a broad discussion of opportunities for planning to build a more effective regulatory and risk management structure and to recover, develop, and maintain the human infrastructure that will support appropriate regulatory and risk management efforts. Panelists will discuss with the audience, issues such as: how some functions may be performed even in the absence of federal leadership (e.g., local/regional/state government, privatization, nonprofits/philanthropy, citizen science/volunteers); how best to evaluate various exploratory approaches; how to most effectively reorganize and restructure particular functions at the federal level; etc.

Panelists:

- Joseph Rodricks
- Allison Reilly, University of Maryland
- Chris Frey, U.S. Environmental Protection Agency
- Edward Carr, Stockholm Environment Institute US
- Felicia Wu, Michigan State University
- Vicki Bier, University of Wisconsin-Madison
- Rob Goble, Clark University GPMI

1:30 PM – 3:00 PM

M3-D
Finance and Technology Risks

Meeting Room 2

Chair: Annette Hofmann

1:30 pm **M3-D.2**
Information flows, uncertainty, and operational shocks
Nicholas Currie
Beyond Blue Limited

1:50 pm **M3-D.3**
Risk Assessment of Equity and Crypto Assets through a Statistical-Mechanics Quantal Response Framework
Francesco De Pretis
University of Modena and Reggio Emilia, Italy

2:10 pm **M3-D.4**
From Prediction to Protection: The Role of Forecast Skill in Optimizing Risk Transfer Mechanisms
Annette Hofmann
University of Cincinnati

1:30 PM – 3:00 PM

M3-E
Pandemics - Risks and Challenges

Meeting Room 3

Chair: Francois Daudelin

1:30 pm **M3-E.1**
Leveraging Diversification During Pandemics: How Hospital Pooling Reduces Healthcare Strain and Saves Lives
Francois Daudelin
University of North Carolina at Chapel Hill

1:50 pm **M3-E.2**
Individual differences in the evaluation of vaccine information on social media
Alantis Baldwin
Clemson University

2:10 pm **M3-E.3**
A Pandemic Is Not Enough: Lessons from American Risk and Privacy Perception During and After COVID
Farnaz Asrari
Indiana University

2:30 pm **M3-E.4**
Evolving Public Risk Perceptions and Trust during COVID-19: A Two-Year Study in South Korea
Minjung Lee
Yale University

1:30 PM – 3:00 PM

M3-F
Natural Hazards, Homeland Security, and Analytics

Meeting Room 4

Chair: TBD

1:30 pm **M3-F.1**
Facilitating transparency in the assessment of community resilience to climate impacts through the use of a map-based geovisualization tool
Tomasz Opach
Norwegian University of Science and Technology

1:50 pm **M3-F.2**
Optimizing resource allocation to mitigate the risk of disruptive events in homeland security and emergency management
Parastoo Akbari
Iowa State University

2:10 pm **M3-F.3**
On the complex definition of natural hazard risk: the struggle for a common vocabulary
Scott Davis
Georgetown University

2:30 pm **M3-F.4**
Innovation for enhanced resilience and resilience of innovation: an integrative approach
Aleksandar Jovanovic
Steinbeis EU-VRi

1:30 PM – 3:00 PM

M3-G
Energy Communication

Meeting Room 5

Chair: Bonnie Ram

1:30 pm **M3-G.1**
Evaluating climate risks to electricity supply for United States' balancing authorities
Abbey Kollar
George Washington University

1:50 pm **M3-G.2**
Characterizing the resilience challenges of affordable energy and the affordability challenges of resilient energy
Patrick Murphy
PSE Healthy Energy

2:10 pm **M3-G.3**
Uncertainty confounds justice: the energy development "devil they don't know"
Emma Korein
University of Delaware

2:30 pm **M3-G.4**
How benefits became risks in the clean energy transition: Social amplification of risk and capacity building
Bonnie Ram
University of Delaware

1:30 PM – 3:00 PM

M3-H
Modeling Complexity for Systems and Networks

Meeting Room 16

Chair: Benjamin Trump

1:30 pm **M3-H.1**
What happens after collapse? Analyzing the resilience of the Mediterranean in the Early Iron Age
Benjamin Trump
Tor Intelligence, LLC

1:50 pm **M3-H.2**
Risk and resilience resource navigator tool: identifying funding avenues and prioritizing resilience investments for the united states army corps of engineers
Garrett Watson
USACE Engineer Research and Development Center

2:10 pm **M3-H.3**
Modeling Strategic Interactions Among Homeowners, Insurers, and Regulators in Wildfire-Prone Insurance Markets: A Game-Theoretic Approach
Jia Choi
University At Buffalo

2:30 pm **M3-H.4**
An AI Assistant for Critically Assessing and Synthesizing Clusters of Journal Articles
Louis Cox
Cox Associates, University of Colorado

2:50 pm **M3-H.5**
Embedding Institutional Memory in AI: Simulating Transboundary Water Negotiation to Inform Resilient Infrastructure
Zahra Heydari
Stanford University

3:30 PM – 5:00 PM

M4-A
Roundtable: Communicating Risk in a Time of Division, Distrust, and Disruption

River Birch Ballroom A

The risk communication landscape has undergone profound disruption in 2025, with ripple effects extending far beyond national borders. Federal agencies responsible for risk assessment, management, and communication in the U.S.—such as the CDC, FDA, and EPA—have faced sustained funding cuts, declining staff and technical capacity, and escalating political pressure under the Trump administration. The U.S. Health Secretary, Robert F. Kennedy Jr., who oversees these agencies, has openly challenged long-standing scientific standards on vaccines, water fluoridation, food dyes, pasteurized milk, and more, drawing widespread criticisms among risk scientists. Meanwhile, risk scholars across U.S. universities and civil society organizations have faced shifting federal priorities, abrupt funding cuts, and mounting pressures that threaten academic freedom. These disruptions have affected researchers at all career stages, ranging from senior faculty to early-career scholars. These changes have also had substantial impacts on the global risk communication ecosystem, influencing governments, academic institutions, and non-governmental organizations across the world.

Panelists:

- Ann Bostrom, University of Washingtom
- Amanda Boyd, Washington State University
- Katherine McComas
- Jeff Niederdeppe
- Ortwin Renn
- Gabrielle Wong-Parodi, Stanford University

3:30 PM – 5:00 PM

M4-B
Global Approaches to Climate Adaptation and Natural Hazards Management

River Birch Ballroom B

Chair: TBD

3:30 pm **M4-B.1**
Global Perspectives on Climate Risk Assessments: An evaluation of local climate risk assessments for effective adaptation planning.
Mitchell Anderson
University of Canterbury

3:50 pm **M4-B.2**
From risk research to practical action and back again: implications of real-world climate risk assessments for research
Tom Logan
University of Canterbury

4:10 pm **M4-B.3**
Disaster preparedness and perceptions of people who experienced water insecurity: insights from the Lloyd's Register Foundation's World Risk Poll
Joshua Inwald
University of Southern California

4:30 pm **M4-B.4**
Partnering with Communities for Coastal Hazard Adaptation Planning in Christchurch New Zealand
Ruby Clark
Christchurch City Council

3:30 PM – 5:00 PM

M4-C
Roundtable: Reflections on the State of Equity-Based Work and Paths Forward

Potomac Ballroom

As the SRA community is well aware, equity-based work is under attack across the U.S. Diversity, equity, and inclusion (DEI) programs are being cancelled, equity-based research funding is being terminated, and federal datasets like EJScreen have been removed from official sites. During these uncertain and challenging times, the Justice, Equity and Risk Specialty Group (JERSG) is hosting a roundtable and open forum to discuss the state of equity-based research, funding, and programming across academia, industry, community groups, and regulatory bodies and to share possible solutions to continue to advance this critical work. Panelists will be invited to briefly speak about their own challenges and strategies to progress their work, and the majority of the session will be dedicated to open discussion and group sharing. Community is especially important as we navigate this new environment, and we hope to create a space to process, learn from one another, and identify concrete ways to move forward.

Panelists:

- Jessica Boakye
- Kelsea Best, The Ohio State University
- Ann Verwiel, ToxStrategies, Inc.
- Adriana Bryant, University of Maryland

3:30 PM – 5:00 PM

M4-D
Bioengineering Foods, Crops & Governance

Meeting Room 2

Chair: Christopher Cummings

3:30 pm **M4-D.1**
Risk Analysis and Governance in a Changing World: Reframing Risk Paradigms to Challenges Posed by Emerging Technologies Part I.
Larisa Rudenko
BioPolicy Solutions, LLC

3:50 pm **M4-D.2**
Risk Analysis and Governance in a Changing World: Part II the Example of Food
Laura Plunkett
Biopolicy Solutions, LLC

4:10 pm **M4-D.4**
What mass media reported for the offshore discharge of ALPS-treated water from the Fukushima Daiichi Power Station
Midori Aoyagi
Chuo University

4:30 pm **M4-D.5**
Risk, Responsibility, and Standardization: Global Lessons from a NATO-Sponsored Biotechnology Workshop
Christopher Cummings
USACE

3:30 PM – 5:00 PM

M4-E
Quantitative Microbial Risk Assessment

Meeting Room 3

Chair: TBD

3:30 pm **M4-E.1**
Quantitative microbial risk assessment: Clostridium botulinum in raw honey
Kayla Kendricks
Michigan State University

3:50 pm **M4-E.2**
Bridging Risk Models and Case Data: A QMRA Approach to Nosocomial Legionnaires' Disease
Hunter Quon
Arizona State University

4:10 pm **M4-E.3**
Evaluating the impact of merging paralogs on source attribution models of Vibrio parahaemolyticus built by integrative methods
Shuyi Feng
University of Maryland

4:30 pm **M4-E.4**
Can Microbial Source Tracking Markers Reliably Predict Pathogen Persistence in Environmental Waters?
Jade Mitchell
Michigan State University

3:30 PM – 5:00 PM

M4-F
Symposium: Risk, Resilience, and Water Infrastructure

Meeting Room 4

Chair: TBD

3:30 pm **M4-F.1**
Risk, Resilience, and Water Infrastructure
Benjamin Rachunok
North Carolina State University

3:50 pm **M4-F.2**
An Ensemble-Based Approach for Coastal Urban Flood Probability Mapping using a novel 1D/2D Coupled Model
Julianne Quinn
University of Virginia

4:10 pm **M4-F.3**
Rethinking Flood Risk & Insurance: Integrating the Spatiotemporal Dynamics of an Evolving Climate
Adam Nayak
Columbia University

4:30 pm **M4-F.4**
The Role of Infrastructure and Behavioral Uncertainties in Amplifying Flood Risks
Vivek Srikrishnan
Cornell University

3:30 PM – 5:00 PM

M4-G
Land, Farms, Weather & Energy

Meeting Room 5

Chair: Tyler Swanson

3:30 pm **M4-G.1**
Structural influences on land manager risk perceptions, efficacy, and management decisions
Margaret Beetstra
The Ohio State University

3:50 pm **M4-G.2**
From entanglement to action: risk-informed resilience of the power grid
Ryan McGranaghan
Jet Propulsion Laboratory

4:10 pm **M4-G.34**
Your dollar, my community: Regulatory risk and procedural justice in large-scale solar energy development
Tyler Swanson
Michigan State University

3:30 PM – 5:00 PM

M4-H
AI and Its Intersection with the Social Sciences

Meeting Room 16

Chair: Madison Horgan

3:30 pm **M4-H.1**
Revolution or Reckless Risk: Navigating the Generative AI Paradigm Shift in Academic Publishing
Madison Horgan
Arizona State University

3:50 pm **M4-H.2**
Median number of years in the US market for new molecular entity (NME) drugs
Daniel McGeeney
ERG, Inc.

4:10 pm **M4-H.3**
Acceptance of Artificial Intelligence in Medicine for Cancer Diagnosis
Michael Sobolev
University of Southern California

6:00 PM – 8:00 PM

Poster Session
Rock Creek Ballroom

P.1
Driven by Risk: Understanding Reference-Dependent Preferences using Simulated Auto Racing
Annette Hofmann
University of Cincinnati

P.3
Applying systems thinking to plastic governance: an integrated approach identifying interconnected risks through policy mapping and stakeholder engagement
Paul Einhäupl
Research Institute for Sustainability at GFZ

P.4
Evaluating irrigation water as a potential risk pathway for enteric pathogen contamination of microgreens and soil
Aishwarya Rao
University of Maryland

P.6
Exploring end-of-life fate and effects for alternatives to selected conventional plastics
Cheng Wang
Argonne National Laboratory

P.5
An Evaluation of Intermittent Lead Exposure in Children and Adults Using US EPA Blood Lead Models
Kyle Colonna
Gradient

P.7
Risk Misunderstanding and Access: A Thematic Analysis of Flood Professionals' Survey Responses on Community Preparedness Gaps
Joshua McDuffie
Vanderbilt University

P.8
Risk Communication about Alzheimer's Disease with Indigenous Peoples
Amanda Boyd
Washington State University

P.9
Understanding Exposure to Avalanche Hazard and Avalanche Information Product Use of Snowshoers and Winter Hikers: Insights from Western Canada
Pascal Haegeli
Simon Fraser University

P.10
Evaluating the complexity of health and environmental risks: A pilot test of a perceived risk complexity scale
Hoda Fakhari
Northwestern University

P.11
Effects of Extreme Temperature Interventions on Human Thermal Perception
Seung-Han Hong
Yonsei University

P.12
Risk perception of 5G exposure among pregnant women in Japan: a cross-sectional panel survey
Noriko Kojimahara
Shizuoka Graduate University of Public Health

P.15
How norms influence recycle and reuse behavioral intention
Yifei He
University at Buffalo

P.16
Towards context based assessment and visualization of community resilience in Norwegian municipalities
Emma Wheeler
Norwegian University of Science and Technology

P.17
Enhancing Cross-Regional Prediction of Household Preparedness Through Appraisal-Based LLM Simulation
Liming Lu

P.18
A Machine Learning Approach to Estimating Evolving Flood Hazards
Brenna Losch
Purdue University

P.19
Sensitivity Analysis of AIST-IDEA as Background Data for Life Cycle Assessment
Patrick Gurian
Drexel University, CAEE Dept.

P.21
Sensor-enabled machine learning for food-waste risk mitigation: insights from the ONFOODS "INTENTION" case study
Dario Gregori
University of Padova

P.22
Unpacking risk preferences for catastrophic climate damages: evidence from a discrete choice experiment on willingness-to-pay
Saiwen Zhang

P.23
Influence of bioinformatics analyses on Random Forest models for source attribution of Vibrio parahaemolyticus
Shuyi Feng
University of Maryland

P.24
Assessing the potential for human pathogen contamination of agricultural fields by dust from animal feeding operations
Francisco Garces-Vega
Consultant

P.25
Bridging Epidemiology and Supply Chain Traceback Methodologies: Opportunities for Fresh Produce Outbreak Investigations
Emma Moynihan
Exponent

P.26
Benzyl isothiocyanate nanoemulsion for inhibiting foodborne pathogens
Samiksha Bhattarai
University of Maryland

P.27
A Benefit Analysis of Heavy Metal Reduction in Food Products
Seung-Han Hong
Yonsei University

P.28
Assessment of the potential consumer risk from imported tuna and swordfish containing elevated levels of mercury
Andy Axon
Food Standards Agency (UK)

P.29
Predicting the establishment risk of pale cyst nematode in Idaho using a process-based, stage-structured population dynamics model
Roden Carlo Lizardo
North Carolina State University

P.32
Analysis of Hurricane Impact in Communities Based on Social Vulnerability
Meredith Walsh
University of Maryland

P.33
Disparities in Maintenance Services Across D.C. Public Schools: Examining School- and Community-Level Characteristics
Safoura Safari

P.34
Impact of culvert failures on transportation network
Sanaz Soori
University of Massachusetts Amherst

P.36
Systemic Risk Modeling of United States In-Person Voting: Threat Analysis of Precinct Count Optical Scanners
Natalie Scala
Towson University

P.37
When All Systems Fail: A Review of Resilience Strategies for the Next Generation of Satellites
Aaron Khazan
Arlington High School

P.38
Operational Foundations of Resilience Stress Testing: Structuring the Foundations of Infrastructure Resilience Assessment
Elizaveta Pinigina
Tor Intelligence

P.40
Information Needs and VOI for the Metadisciplines of Science-Policy Assessment
Mitch Small
Carnegie Mellon

P.42
Pursuing continuance in the face of multiple, diverse risks: Considering the consequences of connectivity for food system resilience among Alaskan communities
Erika Gavenus
Indiana University

P.43
Developing a Probabilistic Social Vulnerability Index: A Machine Learning Approach to Identifying At-Risk Communities in Canada
Liton Chakraborty
University of Waterloo

P.44
Risk Factors and Enabling Approaches to Black Student Engagement and Retention in STEM
Collyn Clark
University of Virginia

P.45
A Quantitative Mapping of Swedish Municipalities' Operational Work with Civil Defence
Olov Hemmingsson
Mid Sweden University

P.46
Are conservatives more sensitive to psychological distance?
Janet Yang
University at Buffalo

P.47
It's All About Accessibility! A Geospatial Analysis of Healthcare Access for ADRD Patients
Saeed Saleh Namadi
University of Maryland

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Understanding Public Perceptions of Institutions in Managed Flood Contexts
Adam Zwickle
Michigan State University

P.50
Strategic community engagement for renewable energy development
Julia Goolsby
Cornell University

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Association between less health plant-based diet (PBD) food intake and dementia risk among diabetic patients using statins in Taiwan
Wen-Chao Ho
China Medical University

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Protective Effect of Reduced Particulate Matter Exposure on Pulmonary Function and Cognitive Performance Among School Children: a Cross-over Trial
Kyungjun Jeong

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The Relationship Between Air Pollution Exposure and the Risk of Colorectal Polyp Occurrence
Yi-Zhen Yang
China Medica University

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Comparative evaluation of natural antimicrobial treatments against Escherichia coli O157:H7 and Salmonella spp.
Ujjwol Subedi
University of Maryland

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The Role of Information Design in Technology Adoption, case study: Battery Energy Storage Systems (BESS)
Reyhaneh Mohsenzadeh Yazdi
Carnegie Mellon University

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Integrating Mechanistic and Machine Learning Models for Predicting Environmental Exposures: A Systematic Review of Emerging Hybrid Modeling Frameworks
Timothy Leung
North Carolina State University

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Coastal cities at high flood risk along the U.S. Gulf and Atlantic coast: a machine learning driven approach
Wanyun Shao
University of Alabama

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"When Should I Leave?": The Effect of Impact Based Hurricane Wind and Storm Surge Warnings on Evacuation Intentions
Madhuri Ramasubramanian
Texas Tech University

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The sports betting motivations scale (SBMS): development, validation, and behavioral correlates
Kevin Kapadia
University of Southern California

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Health information dynamics and parental vaccine hesitancy: insights from hierarchical linear regression
Joy Wang
University of Illinois Urbana Champaign

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Modeling the degradation rates of plastics in the environment
Kevin Hickey
Argonne

P.64
From Heat Risk to Health System Response: A Multilevel Strategy for Institutional Adaptation in Chile
Pablo Cea Frías
Pontificia Universidad Catolica De Chile

P.65
How the industrial revolution gave rise to the u.s. public health service and tsca reform
Frank Hearl
Hearl Environmental Consulting LLC

P.66
U.S. FDA's Total Diet Study-based estimates of dietary lead exposure in older children, females of childbearing age and adults: Preliminary Findings
Alexandra Gavelek
FDA

P.67
Beyond Decibels: How Complex Spatiotemporal Interactions Drive Aircraft Noise Complaints
Savannah Morgan
DFW International Airport

P.70
Developing a Risk Tool for Agricultural Water Use: Integrating Quantitative Microbial Risk Assessment and Stakeholder Input for Scenario-Based Decision Support
Hunter Quon
Arizona State University

P.71
Guiding Principles for a Risk-Based Scientific Research Enterprise to Inform Decisions at the U.S. Environmental Protection Agency
Chris Frey
North Carolina State University

P.72
A re-examination of the inverse cognitive correlation between perceived risk and benefit
Mafumi Murata
The University of Tokyo

P.73
Quantification of inter-individual variability in multipollutant air pollution exposures for an urban area
Sailaja Eluri
North Carolina State University

P.74
Updates to USDA's petition process to deregulate genetically engineered plants
Amanda Kenney
USDA APHIS Biotechnology Regulatory Services

P.75
Does sargassum on beaches pose a health risk to children through arsenic exposure during recreational play?
Brittany McIntyre
University of Miami

P.76
Allocating Households to the National Structure Inventory for Household-Individual-Level Risk Assessment
Xiao Qian
University of Delaware

P.77
Human Adenovirus Risk Assessment and Public Perception of Biosolids Application in Southwestern United States
Mehedi Hasan
The University of Arizona

P.78
Hold My Beer: The Risk of PFAS in America's Favorite Brew
Jennifer Hoponick Redmon
RTI International

P.79
PREDICTing Healthy Homes Using mixed modeling, participatory science testing, and mapping to identify households at highest risk of lead exposure
Jacqueline MacDonald-Gibson
North Carolina State University

P.80
Disaster Multiplayer Online Game (DMOG) for Training Emergency Management Officials
Cameron MacKenzie
Iowa State University

P.81
Intersections of science and culture for microbes across centuries
Margaret (Peg) Coleman
Coleman Scientific Consulting

P.82
Human Health Risk Assessment for the Occurrence of PFAS in Biosolids that are Land-Applied in the Southwestern United States
Ronewa Netshithothole
Arizona State University

P.83
Predictive Modeling of Dialysis Access and Resilience Using Mobility Data
Saurabh Mohite
University of Delaware

P.84
Improving community resilience to disrupted food access: Empirical spatio-temporal analysis of volunteer-based crowdsourced food delivery
Gretchen Bella
The University of Maryland

P.85
Risk without values: the necessity of including Indigenous perspectives in climate risk assessments
Marcelle Scadden
University of Canterbury

P.86
Cooperation or competition: equity implications in mixed prosumer–consumer energy communities
Weijie Pan
Dartmouth College

P.87
A novel access method for highly competitive situations
Darcy Glenn
University of Canterbury

P.88
Managing the Business Cybersecurity Risk of the Future: The Aging Workforce Analysis and Development of Recommendations for Training and Risk Minimization
Diane Henshel
Indiana University

P.89
Health Security in Peril? The Impacts of the Second Trump Administration on U.S. Health Preparedness and Resilience
Katarzyna Klasa
Rutgers University, The State University of New Jersey

P.90
An Assessment of the Contribution of LEED Credits to Building and Community Resilience
Ayda Marshall
University of Michigan

P.91
Developing a Hydroclimatic Risk Assessment Framework for Food Safety Outbreak Investigations & Developing Prevention Strategies
Mehran Niazi
US Food and Drug Administration

P.92
Exploring Occupational Health and Well-Being of Yoga and Naturopathy Healthcare Professionals: Insights from a Cross-Sectional Study in Delhi, India
Monirujjaman Biswas
Jawaharlal Nehru University

P.93
Empirical analysis of the complementarity and role of reinsurance, catastrophe bonds within broader ILS, and disaster relief funds
Yosuke Imori
Boston University

8:30 AM – 10:00 AM

T1-A
Advances in Chemical Risk Assessment

River Birch Ballroom A

Chair: Gustavo Salcedo

8:30 am **T1-A.1**
Changes in Survival, Swimming Behavior, and Stress Biomarker Expression in C. virginica Larvae in Response to Exposure to Drugs of Abuse
Gustavo Salcedo
University of Massachusetts

8:50 am **T1-A.2**
Benchmark-Dose Genomic Risk Assessment Coupled with PBPK Translation for Precision Nicotine and Buprenorphine Dosing
Francesco De Pretis
University of Modena and Reggio Emilia, Italy

9:10 am **T1-A.4**
Application of a Bayesian Network to derive a probability of causality for weight of evidence assessments, with a case study on a drinking water assessment
Franco Momoli
Risk Sciences International

9:30 am **T1-A.5**
Importance of integrating cumulative chemical exposures into cumulative impact assessment for vulnerable communities
Ann Verwiel
ToxStrategies, Inc.

8:30 AM – 10:00 AM

T1-B
Data, Policy, and Technology in Wildfire Resilience

River Birch Ballroom B

Chair: Joanna Robaszewski

8:30 am **T1-B.1**
Maladaptation to Structural and Relief Legislation in Wildfire-Prone Communities
Liming Lu

8:50 am **T1-B.2**
GeoFlame VISION: Developing Early Prediction of Wildfire Risk Leveraging Satellite Imagery through Vision-Guided Neural Algorithm
Poulomee Roy
University at Buffalo

9:10 am **T1-B.3**
Social Networks and Evacuation Timing During Wildfires: A Data-Driven Analysis of the 2018 CampFire
Behnam Tahmasbi
University of Maryland

9:30 am **T1-B.4**
Optimized firefighting resource prepositioning based on fire probability risk and travel times
Sukhwan Chung
Credere Associates LLC

8:30 AM – 10:00 AM

T1-C
Roundtable: Security and Risk: Bridging Concepts and Practice

Potomac Ballroom

The security field has historically evolved separately from traditional risk analysis. While risk analysts emphasize uncertainties, likelihood and impact, security practitioners are concerned about values, threats, vulnerabilities, intentions and capabilities. This roundtable explores the conceptual and practical tensions between these perspectives and approaches, aiming to foster dialogue and stronger integration between these two communities. Panelists will discuss challenges in aligning these frameworks, including differing terminologies, methodologies, and decision-making contexts. Key questions include: How can risk analysis incorporate the dynamic, intentional nature of security threats? What are the barriers to adopting probabilistic based approaches and methods in security practice? The panel will examine opportunities to bridge these fields, enhancing both theoretical understanding and practical application. This discussion is relevant for researchers, practitioners, and policymakers seeking to unify risk and security strategies in an increasingly interconnected threat landscape.

Panelists:

- Terje Aven
- Seth Guikema
- Henry Willis
- Marja Ylönen
- Jun Zhuang

8:30 AM – 10:00 AM

T1-D
AI Technology Risk

Meeting Room 2

Chair: TBD

8:30 am **T1-D.1**
Generative AI adoption and barriers: the case of the insurance industry
Aisling Owen
University of Limerick

8:50 am **T1-D.2**
Using Private Standards to Govern Artificial Intelligence Risks
Gary Marchant
Arizona State University

9:10 am **T1-D.3**
Analysis of AI Risk Governance for Compliance-Driven Applications
Natasha Slade
University of Rhode Island

9:30 am **T1-D.4**
Emotional Granularity in Risk Communication: An Ensemble Approach with Generative AI
Hung-Yen Hsu
College of Communication, National Chengchi University

9:50 pm **T1-D.5**
AI Risk Modeling – Using LLM Benchmark Data to Generate Risk Estimates
Malcolm Murray
SaferAI

8:30 AM – 10:00 AM

T1-E
Public Health, Mortality & Medicine

Meeting Room 3

Chair: Dario Gregori

8:30 am **T1-E.1**
Balancing privacy and power: federated learning for multicenter surveillance of rare cardiovascular adverse events
Dario Gregori
University of Padova

8:50 am **T1-E.2**
3D modeling of objects responsible for foreign body injuries in children: a novel web-based approach for targeted public health prevention and pediatric safety
Cinzia Anna Maria Papappicco
University of Padova

9:10 am **T1-E.3**
Bridging gaps between environmental health and healthcare
Kristy Richardson
CO Dept of Public Health and Environment

9:30 am **T1-E.4**
Federated Learning-Based Model for Predicting Mortality
Nurfaidah Tahir
China Medical University

9:50 am **T1-E.5**
Timescale Selection and Reliability Modeling for Condition-Based Maintenance of Medical Equipment
Mobolaji Shobanke
George Washington University

8:30 AM – 10:00 AM

T1-F
Resilience Science and Systems Thinking

Meeting Room 4

Chair: TBD

8:30 am **T1-F.1**
Integrated agent-based and social network modeling to stress-test resilience in coupled social-infrastructure systems
Gregory Kiker
University of Florida

8:50 am **T1-F.2**
Defining the risk of functions due to asset-level shocks
Kevin Stamber
Sandia National Laboratories

9:10 am **T1-F.3**
Visualizing strategic risks in systems-of-systems
Ambrosio Valencia-Romero
Old Dominion University

8:30 AM – 10:00 AM

T1-G
Climate Communication I

Meeting Room 5

Chair: Wandi Bruine de Bruin

8:30 am **T1-G.1**
Improving How the IPCC Addresses Uncertainty through Knowledge Decomposition
Seth Guikema
University of Michigan

8:50 am **T1-G.2**
Weather-related TV news stories can increase climate change concerns and willingness to protect against severe weather
Wandi Bruine de Bruin
University of Southern California

9:10 am **T1-G.3**
How Fast Do We Forget Near-miss Flood Disasters? A Behavioral Experiment on Memory Decay After Near-Miss and Actual Flood Events
Seungik Oh
Purdue University

8:30 AM – 10:00 AM

T1-H
Symposium: Quantifying Access to Essential Services

Meeting Room 16

Chair: TBD

8:30 am **T1-H.1**
Quantifying Access to Essential Services
Benjamin Rachunok
North Carolina State University

8:50 am **T1-H.2**
Evaluating Infrastructure Decisions' Impact on Access to Essential Services
Caroline Hayes
North Carolina State University

9:10 am **T1-H.3**
Expanding the Dimensions of Food Access: A Data-Driven Approach to Acceptability and Accommodation
Teresa Groton
North Carolina State University

9:30 am **T1-H.4**
Prepare vs Respond: Simulation of Access to Education for Rural School Districts
Juan Carlos Chala Lancheros

9:50 am **T1-H.5**
Undermining our health infrastructure: Primary healthcare access under climate change
Darcy Glenn
University of Canterbury

10:30 AM – 12:00 PM

T2-A
Computational Approaches and Tools for Chemical Risk Assessment

River Birch Ballroom A

Chair: Kan Shao

10:30 am **T2-A.1**
Advancing digital strategy for large scale multi-pathway human health risk assessment (HHRA): a comparison case study of a SQL-based tool and Lakes Environmental's IRAP-h View
Shang Shi
Ramboll Americas Engineering Solutions

10:50 am **T2-A.2**
Sensitivity and specificity assessment of quantitative structure-activity relationship (qsar) tools applied to flavor ingredients
Trudi Denoon
Altria-ALCS

11:10 am **T2-A.3**
Toxicity and Dose-Response Prediction through an AI-Based Rodent Digital Twin Model
Kan Shao
Indiana University

11:30 am **T2-A.4**
A Novel High-Throughput γH2AX-Based In Vitro Assay for Quantitative Genotoxicity Screening and Cancer Risk Assessment of Heterocyclic Amines
Wei-En Huang
National Taiwan University

11:50 am **T2-A.5**
Advancing quantitative uncertainty assessment in next generation risk assessment
Daniele Wikoff
ToxStrategies

10:30 AM – 12:00 PM

T2-B
Climate, Connectivity, and Crisis: Evolving Risks and Solutions in Emergency Infrastructure

River Birch Ballroom B

Chair: Amma Agyekum

10:30 am **T2-B.1**
Resilient by design: a multimodal, disruption-aware framework for optimal resilience hub placement
Amma Agyekum
University of Massachusetts, Amherst

10:50 am **T2-B.2**
A Human Mobility-Informed Optimization Framework for Equitable Evacuation Planning
Tommy Gallagher
California Polytechnic University San Luis Obispo

11:10 am **T2-B.3**
REACHER, a road-network resilience assessment toolkit
Andrew Jin
US Army Corps of Engineers

11:30 am **T2-B.4**
Assessing the risks associated with access to emergency services impacted by climate change-induced flooding within the Great Lakes watershed
Jeffrey Ashby
Indiana University

10:30 AM – 12:00 PM

T2-C
Roundtable: Sustainable Product Development: Life Cycle Impact Assessment and Risk Assessment Perspectives

Potomac Ballroom

Life Cycle Impact Assessments (LCIA) are increasingly being utilized within Life Cycle Assessments (LCA) to assess human health and ecological impacts and ultimately compare products or processes. This roundtable session aims to explore how current impact methodologies compare to traditional human health and environmental risk assessment for various decision contexts with particular emphasis on the use and characterization of toxicological data. In addition, life cycle risk analysis will be discussed as a potential approach to leverage the strengths of both risk and impact assessments. We will hear from industry, academic and governmental experts in LCIA and risk analysis (RA) and discuss the differences and considerations between impacts in LCIA models and risks using RA frameworks for human health toxicity and ecotoxicity endpoints. We will also examine how LCIA and RA model outputs compare and discuss practical considerations, such as data requirements, data availability, and time and effort involved in conducting these assessments. Finally, we will explore emerging trends in toxicology and how existing methodologies may be adapted to better quantify human health and environmental impacts, enabling comprehensive assessment of products and processes.

Panelists:

- Cody Wilson
- Susan Sanchez
- Craig Rowlands
- Brian Zhang
- Julia Marschallinger

10:30 AM – 12:00 PM

T2-D
Symposium: Frontiers in AI Security and Risk Analysis

Meeting Room 2

Chair: Unal Tatar

10:30 am **T2-D.1**
Frontiers in AI Safety and Security Risk Analysis
Unal Tatar
University at Albany

10:50 am **T2-D.2**
Bridging the Gaps in AI Risk Governance: Insights from the Evolution of Cyber Risk Analysis
Unal Tatar
University at Albany

11:10 am **T2-D.3**
Risk Implications for AI Adoption in Intelligent Transport Systems
Shital Thekdi
University of Richmond

11:30 am **T2-D.4**
Risks of Ignoring Uncertainty Propagation in AI-Augmented Security Pipelines
Fabio Massacci
Vrije Universiteit Amsterdam

11:50 am **T2-D.5**
A New Approach to Biothreat Benchmark Generation for Evaluating Frontier AI Models
Brandon Behlendorf
University of Albany

10:30 AM – 12:00 PM

T2-E
Roundtable: Balancing Innovation and Oversight of Alternative Proteins

Meeting Room 3

As the global food system faces growing pressures related to sustainability and food security, alternative proteins have garnered increased attention in recent years. Alternative proteins, including plant-based, fermentation-based, and cell-cultivated meat and seafood products, may have lower environmental impacts and risks, enhance food system resilience, and provide consumers with a broader range of protein based products. However, at the same time, research is still ongoing to fully understand the full range of life cycle risks and impacts, nutritional profiles and long-term health effects, and food safety evaluations. Meanwhile regulatory and policy frameworks are struggling to keep pace with the speed of innovation, and some countries and several U.S. states have proposed bans for cell-cultivated proteins in particular.

This roundtable panel brings together experts from policy, food safety, nutrition, and risk sciences to explore the rapidly evolving landscape of alternative proteins and its governance and oversight. The timeliness of this session could not be better and aligns with the theme of "What Comes Next?" given the increased pressures to secure more sustainable and resilient food and agriculture systems within broader contexts of uncertainty and evolving federal and state regulations.

Panelists:

- Katariina Koivusaari
- Jo Anne Shatkin
- Kate Stanley
- Greg Jaffe

10:30 AM – 12:00 PM

T2-F
Risk and Resilience Theory Analytics

Meeting Room 4

Chair: TBD

10:30 am **T2-F.1**
Towards Operationalizing Ecological Resilience for Infrastructure
Yamil Essus
North Carolina State University

10:50 am **T2-F.2**
Integration of Probabilistic Risk Assessment and Multi-Horizon Stochastic Programming for Risk Management
Suroosh Mosleh
University of Maryland College Park

11:10 am **T2-F.3**
Advancements in a Matrix-Based Approach for Quantifying and Prioritizing Resilience Improvements for the US Army Corps of Engineers
Luke Hogewood
Credere Associates

10:30 AM – 12:00 PM

T2-G
Climate Communication II

Meeting Room 5

Chair: Robyn Wilson

10:30 am **T2-G.1**
European public support for climate mitigation measures is resilient to uncertainty information
Valeria Sorgato
University of Geneva

10:50 am **T2-G.3**
Do low-income groups respond more positively to "climate justice" than to other terms from the public discourse about climate change?
Jenna Blyler
University of Southern California

11:10 am **T2-G.4**
Enhancing Ice Safety and Climate Change Awareness Among Ice Anglers in the Great Lakes Community
Lexi Guzman
University of Wisconsin Madison

11:30 am **T2-G.5**
Integrating behavioral heterogeneity into models of climate risk and resilience
Robyn Wilson
The Ohio State University

10:30 AM – 12:00 PM

T2-H
Roundtable: The Future of Risk Analysis: Perspectives from Emerging Risk Professionals

Meeting Room 16

Over the past four decades, risk research has played a vital role in shaping how societies understand and address the probability and severity of risks. It has also influenced policy approaches across the United States and around the world. As the field has developed, many within the discipline and the Society for Risk Analysis perceive it to be at a turning point. Recent SRA conferences have included panels and roundtable discussions focused on the future of risk analysis, often in the context of declining emphasis on evidence based policy making and the reduction of dedicated risk research groups in some countries.

This roundtable brings together emerging risk professionals working across a range of disciplines and geographic contexts within the Society for Risk Analysis to reflect on the current and future state of the field. We revisit questions raised in past conferences, such as whether risk research is in decline, and where new opportunities or enduring challenges may exist across disciplines and regions. The discussion will also explore how to encourage broader engagement with the field and with the Society. In addition, participants will consider emerging global issues that warrant attention from risk researchers, including the increasing significance of artificial intelligence, the spread of misinformation, and the globalization of risk and risk research.

Panelists:

- Benjamin Rachunok, North Carolina State University
- Alex Segre Cohen, University of Oregon
- Tom Logan, University of Canterbury
- Sarah Duckett, King's College London
- Christopher Wirz, National Center for Atmospheric Research

1:30 PM – 3:00 PM

T3-A
Quantitative Chemical Risk Analysis

River Birch Ballroom A

Chair: TBD

1:30 pm **T3-A.1**
Probabilistic Health Risk Assessment from Dietary Intakes of Zearalenone in Maize: An International Comparison
Yu-Qi Bai
National Taiwan University

1:50 pm **T3-A.2**
Exploring benefit and risk perceptions in public attitudes toward nanotechnology in food applications: a multidimensional analysis
Joy Wang
University of Illinois urbana champaign

2:10 pm **T3-A.3**
Development of an algorithm to evaluate the health burden of chemical hazards in foods
Tamazight Cherifi
Canada

2:30 pm **T3-A.4**
Rapid risk assessment to address emerging concerns of HPAI in raw and pasteurized milk in the United States
Kara Dean
Food and Drug Administration

1:30 PM – 3:00 PM

T3-B
From Vulnerability to Recovery: Modeling Infrastructure Risk in Complex Hazard Environments

River Birch Ballroom B

Chair: Megan Marcellin

1:30 pm **T3-B.1**
A systems approach to infrastructure risk in data-scarce regions
Megan Marcellin
University of Virginia

1:50 pm **T3-B.2**
Identifying urban cascading disaster risks from the past disaster processes: a process mining approach
Zhaoge Liu
Xiamen University

2:10 pm **T3-B.4**
Probabilistically capturing detailed human dependencies on the built environment for enriched natural-hazard risk assessments
Tom Logan
University of Canterbury

1:30 PM – 3:00 PM

T3-C
Roundtable: Safer and More Sustainable by Design (SSbD): Addressing Advanced Manufacturing in Emerging Frameworks Risk and Sustainability Across the Product Life Cycle

Potomac Ballroom

Advanced manufacturing approaches, such as additive manufacturing, the development of novel inorganic substances, and products of synthetic biology, are driving innovation in industry but also introducing new complexities in risk assessment and sustainability management. These technologies present unique challenges for protecting workers, ensuring product safety, and demonstrating sustainability throughout the product life cycle. This roundtable will explore how Life Cycle Inventory and Assessment tools can help identify and address safety, health, and environmental challenges, particularly those arising during production and use. Panelists will discuss the role of sustainable design and process optimization in delivering substantial environmental and occupational health benefits for industry. The session will also highlight how Design for the Environment (DfE) principles can integrate sustainability and safety considerations to reduce risks for both workers and communities. A central focus will be the relationship between current Sustainable Development Goals (SDGs) and the worker and environmental health impacts associated with advanced manufacturing.

Panelists:

- Jo Anne Shatkin, Vireo Advisors
- Alan Rossner, Clarkson University
- Mary O'Reilly, University at Albany

1:30 PM – 3:00 PM

T3-D
Symposium: Analyzing Risks in the AI Era: Models from Cyber, Supply Chains, and Infrastructure

Meeting Room 2

Chair: Unal Tatar

1:30 pm **T3-D.3**
Reducing Risks of IP Theft in Supply Chains: Insights from a Game Theory Model
Zachary Collier
Radford University

1:50 pm **T3-D.4**
Large Language Models are Unreliable for Risk Summarization in Cyber Threat Intelligence
Emanuele Mezzi
Vrije Universiteit Amsterdam

2:10 pm **T3-D.5**
Automating Voice of Customer Analysis with AI Workflows for Cybersecurity
Kenneth Crowther
Xylem

2:30 pm **T3-D.6**
Threat Modeling for Cyber Risk Management in Large IT Enterprise
Joost Santos
George Washington University

1:30 PM – 3:00 PM

T3-E
Risk Assessment for Food Safety

Meeting Room 3

Chair: TBD

1:30 pm **T3-E.1**
FDA-iRISK® advancements and applications for risk ranking and rapid risk assessments
Yuhuan Chen
Food and Drug Administration

1:50 pm **T3-E.2**
From Code to Cure: AI in the FDA Drug Approval Pipeline
David Berube
North Carolina State University

2:10 pm **T3-E.3**
Risk categorisation of imported foods of non-animal origin
Andy Axon
Food Standards Agency (UK)

2:30 pm **T3-E.4**
Quantitative scanning electron microscopy characterization to determine if novel cellulose materials meet the European Commission's regulatory definition of a nanomaterial
Yueyang Zhang
Vireo Advisors

2:50 pm **T3-E.5**
Cultured Meat Safety Initiative: Developing an Action Plan for Safety Research
Jo Anne Shatkin
Vireo Advisors

1:30 PM – 3:00 PM

T3-F
Conflict, Defense and Geopolitics

Meeting Room 4

Chair: TBD

1:30 pm **T3-F.1**
Towards a global heat map of civil conflict
Pragathi Jha
Purdue University

1:50 pm **T3-F.2**
Defensive Resource Allocation Versus a Realistic Attacker in a Multi-Layer Security Game
Ian Unson
University at Buffalo

2:10 pm **T3-F.3**
Conflict due to climate change: theory
Pragathi Jha
Purdue University

1:30 PM – 3:00 PM

T3-G
Understanding Risk in Everyday Decisions: Food, Environment, and Emergencies

Meeting Room 5

Chair: Patrycja Sleboda

1:30 pm **T3-G.1**
Risk perception measurement: building upon past progress
Branden Johnson
Oregon Research Institute

1:50 pm **T3-G.2**
Personal relevance as a boundary condition in secondary risk perception: Insights from sugar consumption decisions
Yi Yin Leong
University at Buffalo

2:10 pm **T3-G.3**
Watch the Label! Consumers' Understanding, Preferences and Willingness to Pay for Plant-Based Food Products.
Patrycja Sleboda
Baruch College, City University of New York

2:30 pm **T3-G.4**
Modeling Misperceived Risk in Household Judgment of Hurricane Food Shortages within a Simulated AI Environment
Junkang Xu
Clemson University

2:50 pm **T3-G.5**
Expanding our horizons: Understanding and promoting pro-environmental behavior change through regulatory scope
Naseem Dillman-Hasso
The Ohio State University

1:30 PM – 3:00 PM

T3-H
Symposium: Stakeholder Engagement in Emerging Technologies Strategies, Challenges, and Lessons Learned

Meeting Room 16

Chair: TBD

1:30 pm **T3-H.1**
Stakeholder Engagement in Emerging Technologies: Strategies, Challenges, and Lessons Learned
Madison Horgan
Arizona State University

1:50 pm **T3-H.2**
Strategic Stakeholder Engagement for the Development of Biological Harmful Algal Bloom (HAB) Control Technologies
Madison Horgan
Arizona State University

2:10 pm **T3-H.3**
Risk, Responsibility, and Standardization: Global Lessons from a NATO-Sponsored Biotechnology Workshop
Christopher Cummings
USACE

2:30 pm **T3-H.4**
Eliciting stakeholder perspectives on novel agrifood technologies through an online engagement platform
Khara Grieger
North Carolina State University

2:50 pm **T3-H.5**
Engaging stakeholders in the alternative protein field: risks, perceptions, and policy
Katariina Koivusaari
North Carolina State University

3:30 PM – 5:00 PM

T4-A
Roundtable: Is Hazard the New Risk? Trends in Evolving Science, Public Policy, and Acceptable Risk: From Science to Policy

River Birch Ballroom A

An increasing area of concern on both sides of the Atlantic is the enduring confusion that exists between hazard (possibility of harm) and risk (actual likelihood and severity of an adverse effect or impact). The deliberate or unintentional misrepresentation of these two distinct concepts has resulted in significant disagreement among regulatory and public health agencies worldwide on the best scientific approach for assessing and managing risks associated with specific technologies and substances in different settings. Some examples include renewable energy sources, manufacturing and worker health, food and consumer products, pharmaceuticals and other topics. Importantly, some regulators, policy advisors and scientists have taken the view that environmental and occupational health regulations or guidelines should be established on the basis of hazard instead of risk - for instance imposing bans on substances deemed genotoxic or carcinogenic or deriving safety levels based on potential upstream (precursor) effects at the molecular or cellular level using high-throughput technologies. Although this has been a prominent issue in Europe for many years, trends suggest a similar perspective is gaining traction in the US and globally.

Panelists:

- Frederic Bouder, University of Stavanger
- Tony Cox, University of Colorado
- Tom Jansen, RIVM National Institute for Public Health and the Environment, The Netherlands
- Katherine McComas, Cornell University
- John Evans, Harvard University
- Nancy Beck, U.S. EPA
- Dominic Balog-Way, Cornell University
- George Gray, George Washington University
- Rob Smal, Ministry of Climate Policy and Green Growth, The Netherlands
- Ragnar Lofstedt, Kings College London
- Pamela Williams, E Risk Sciences, LLP

3:30 PM – 5:00 PM

T4-B
Housing Transitions in a Changing Climate: Risk, Recovery, and Resilience

River Birch Ballroom B

Chair: Alyssa Pletcher

3:30 pm **T4-B.1**
Evaluating relocation induced risk tradeoffs: a case study of manufactured housing in coastal Louisiana
Alyssa Pletcher
Purdue University

3:50 pm **T4-B.2**
A framework for understanding infrastructure needs for the climate displaced
Kelsea Best
The Ohio State University

4:10 pm **T4-B.3**
Hurricane loss modeling for mobile and manufactured homes
Christopher Alegbeleye
University of Delaware

4:30 pm **T4-B.4**
Investigation of policy and climate-relevant drivers of sustainable residential building development in the United States
Adriana Bryant
PhD Student

4:50 pm **T4-B.5**
Spatial-Temporal Analysis of Housing Reconstruction Following the 2015 Gorkha Earthquake in Nepal
Bikash Adhikari
University of Central Florida

3:30 PM – 5:00 PM

T4-C
Occupational Health Risks

Potomac Ballroom

Chair: Nathalia Canellys

3:30 pm **T4-C.1**
Occupational Risk Assessment of Arsine
Nathalia Canellys
National Taiwan University

3:50 pm **T4-C.2**
Improving exposure estimation in occupational epidemiology studies
MacKinsey Bach
ExxonMobil Biomedical Sciences, Inc.

4:10 pm **T4-C.3**
Causal human reliability operator-centered models (CHROMO): a novel quantitative HRA method
Camille Levine
Systems Risk and Reliability Analysis Lab, Univ MD

3:30 PM – 5:00 PM

T4-D
Symposium: Risk and Resilience Analysis of AI Systems for Critical Infrastructures

Meeting Room 2

Chair: Samrat Chatterjee

3:30 pm **T4-D.1**
Risk and Resilience Analysis of AI Systems for Critical Infrastructures
Samrat Chatterjee
PNNL

3:50 pm **T4-D.2**
The Challenges in Anticipating LLM Risk: Insights from Benchmarks and Human Uplift Studies
Brandon Behlendorf
University at Albany

4:10 pm **T4-D.3**
AI-Based Threat Modeling Tool for the Industrial Internet of Things
Kenneth Crowther
Xylem

4:30 pm **T4-D.4**
Alignment of Risk Attitudes in AI Risk Management Systems
Elisabeth Pate-Cornell
Stanford Univ

4:50 pm **T4-D.5**
AI adoption and risks with insights from the financial system
Jonathan Welburn
RAND

5:10 pm **T4-D.6**
Toward Robust and Secure Reinforcement Learning for Autonomous Cyber and Cyber-Physical System Defense
Samrat Chatterjee
PNNL

3:30 PM – 5:00 PM

T4-E
Symposium: Residues, Risk Assessment, and Regulations: Bridging Global Gaps in Food Safety Standards

Meeting Room 3

Chair: TBD

3:30 pm **T4-E.1**
Residues, Risk Assessment, and Regulations: Bridging Global Gaps in Food Safety Standards
Abdel-Razak Kadry
University of Maryland

3:50 pm **T4-E.2**
Navigating Food Safety Risks in Trade: Implications of MRL Disparities for Developing Economies
Abdel-Razak Kadry
University of Maryland

4:10 pm **T4-E.3**
Determining Food Maximum Residue Limits: Lessons from Ractopamine and Fluopyram.
Kuen-Yuh Wu
National Taiwan University

4:30 pm **T4-E.4**
Panel Discussion: Globalizing Food Safety: Bridging Regulatory Gaps Through Risk-Informed, Equitable Standards
Babasaheb Sonawane
Toxicology And Risk Assessment

3:30 PM – 5:00 PM

T4-F
Emerging Challenges for Complex Systems and Extreme Risk

Meeting Room 4

Chair: TBD

3:30 pm **T4-F.1**
Contested Logistics Under Chronic Disruption: A Network Analysis of Ukraine's Highway System
Sukhwan Chung
Credere Associates LLC

3:50 pm **T4-F.2**
Societal Resilience in Times of Cascading Crises. A Socio-Spatial Analysis of Lithuanian Case
Aiste Balzekiene
Kaunas university of technology

4:10 pm **T4-F.3**
What comes next for funding risk research in the social sciences at the National Science Foundation?
Robert O'Connor
National Science Foundation

3:30 PM – 5:00 PM

T4-G
Emergency Risk Communication

Meeting Room 5

Chair: Madhuri Ramasubramanian

3:30 pm **T4-G.1**
How individuals obtain risk communication and take protective actions as a hurricane approaches: Insights from a longitudinal field study
Michelle Ng
Stanford University

3:50 pm **T4-G.2**
Effects of attributing extreme weather to climate change in risk messages
Chelsea Ratcliff
University of Georgia

4:10 pm **T4-G.3**
Users' awareness, knowledge, and response to uncertainty information in public avalanche forecasts
Pascal Haegeli
Simon Fraser University

4:30 pm **T4-G.4**
The Power of Stories in Communicating and Understanding Risk
Cindy Jardine
University of the Fraser Valley

4:50 pm **T4-G.5**
Toward Improved Emergency Communication Messages: A Linguistic Comparison of Spanish and English Short Warnings for Tropical Cyclones
Sergio García Mejía
University of Maryland

3:30 PM – 5:00 PM

T4-H
Symposium: Talc Around Us: Using Risk Assessment to Navigate Hazards

Meeting Room 16

Chair: TBD

3:30 pm **T4-H.1**
Talc around us: using risk assessment to navigate hazards
Andrey Korchevskiy
Chemistry & Industrial Hygiene

3:50 pm **T4-H.2**
What mineralogical science tells about talc.
Ann Wylie
University of Maryland

4:10 pm **T4-H.3**
How bias impacts the interpretation of talc and cancer epidemiology study results
Julie Goodman
Gradient

4:30 pm **T4-H.4**
Talc in consumer products: quantitative risk assessment and regulatory environment
Andrey Korchevskiy
Chemistry & Industrial Hygiene

4:50 pm **T4-H.5**
Case study on quantitative risk assessment for mineral particles exposure
Arseniy Korchevskiy
Chemistry & Industrial Hygiene, Inc.

8:30 AM – 10:00 AM

W1-A
Roundtable: Beyond Exposure - What Makes a Climate Haven?

River Birch Ballroom A

Climate change will induce migration and displacement of people across the world, and some municipalities are hoping to benefit from this mobility by being on the receiving end of relocations. The concept of a "climate haven" – a place with a relatively milder climate, fewer hazards, and access to fresh water – is increasingly being adopted by communities hoping to be a refuge for those moving from high-risk locations. In the United States, many towns and cities, from Buffalo, New York to Madison, Wisconsin, are hailing themselves as climate havens, but the term as popularly understood focuses primarily on hazard exposure; that is, being a locality with a relatively lower likelihood of extreme weather events. It is less clear whether these communities possess the civil infrastructure, institutional planning capacity, and social capital needed to adequately reduce cumulative risk, avert disasters, and support residents' well-being as a receiving community. This roundtable will explore the complex realities of climate-related mobility by synthesizing what is known and unknown about local planning for climate-induced migration and displacement and presenting innovative solutions to measuring new dimensions of vulnerability to climate hazards.

Panelists:

- Kelsea Best, The Ohio State University
- Natalie Herbert, Stanford University
- Allison Reilly, University of Maryland
- Gabrielle Wong-Parodi, Stanford University
- Utkuhan Genc, Purdue University

8:30 AM – 10:00 AM

W1-B
Sustainable and Resilient Water Resources Management

River Birch Ballroom B

Chair: TBD

8:30 am **W1-B.1**
Risk of weather extremes modeled as disruption of system order of water scarce transboundary basins
Gigi Pavur
USACE ERDC

8:50 am **W1-B.2**
Improving Digital Leak Detection by Optimizing Virtual District Metered Area (vDMA) Design
Thomas Ying Jeh Chen
Xylem Inc.

8:30 AM – 10:00 AM

W1-C
Lightning Talks #1

Potomac Ballroom

Chair: TBD

8:30 am **W1-C.1**
Legionella, a survival story: persistence and rebound events and chlorine and heat treatment.
Alexis Mraz
The College of New Jersey

8:35 am **W1-C.2**
Living with and without water: modeling human-infrastructure interactions in disaster preparedness
Utkarsh Gangwal
University of Delaware

8:40 am **W1-C.3**
Explicit problem formulation in USDA's risk assessment of genetically modified plants
Abigail Walter
USDA APHIS

8:45 am **W1-C.4**
Framing Risk of Innovations in Healthcare Systems: A Unified Approach Integrating TOPSIS and LLM Technologies
Ester Rosa
University of Padua

8:50 am **W1-C.5**
From meeting chatter to forecast headlines – Examining forecasters' practices and perspective for communicating uncertainty in avalanche forecasts more effectively
Eeva Latosuo
Simon Fraser University

8:55 am **W1-C.6**
How Does Scientific Reasoning Ability Relate to Trust in Science and Scientists?
Caitlin Drummond Otten
Arizona State University

9:00 am **W1-C.7**
Advancing the Public Health-Engineering Interface through Educational and Operational Convergence
Amelia Kupper
Tufts University

9:05 am **W1-C.8**
Introducing the Hormetic Model of Accident (HMA): Leveraging complexity to enhance system resilience
Karim Hardy
Embry-Riddle Aeronautical University

9:10 am **W1-C.9**
Mirror Life: It's Different
Henry Willis
RAND

8:30 AM – 10:00 AM

W1-D
Cyber and Digital Risks

Meeting Room 2

Chair: Andrew Lysakowski

8:30 am **W1-D.1**
A deep dive using social psychological factors for human behavior in the context of autonomous vehicle cyber-attacks
Rae Zimmerman
New York University

8:50 am **W1-D.2**
Modeling nuclear command, control, and communications for inadvertent nuclear war risk estimation in the new nuclear age
Andrew Lysakowski
North Carolina State University

9:10 am **W1-D.3**
A scenario-based risk profiling for maritime cyber-attacks
Mawuli Afenyo
Texas A&M University

8:30 AM – 10:00 AM

W1-E
Developments in Risk Theory and Misinformation

Meeting Room 3

Chair: Mario Cerna

8:30 am **W1-E.1**
Motivated Risk Misinformation
Richard Williams
Center for Truth in Science

8:50 am **W1-E.2**
An assessment of the Anticipation Hub's communication strategies on social media: a dialogic communication perspective
Mario Cerna
The University of Alabama

9:10 am **W1-E.3**
The risk literacy difficulty analysis: A method for estimating the probability of risk misunderstanding
Jinan Allan
Clemson University

9:30 am **W1-E.4**
Information avoidance related to sexually transmitted infections: An application of uncertainty management theory (UMT)
Kyle Heneveld
University at Buffalo

9:50 am **W1-E.5**
Do people want to know about uncertainty in science? Two brief scales for capturing information preferences
Chelsea Ratcliff
University of Georgia

8:30 AM – 10:00 AM

W1-F
Symposium: Innovative Methods Supporting Resilience of Enterprise Systems

Meeting Room 4

Chair: TBD

8:30 am **W1-F.1**
Innovative Methods Supporting Resilience of Enterprise Systems
Davis Loose
Univsersity of Virginia

8:50 am **W1-F.2**
Trust in IoT Device Supply Chains with Automation of Counterfeit Tracking
Davis Loose
Univsersity of Virginia

9:10 am **W1-F.3**
Water and energy infrastructure security and emergency response
Megan Marcellin
University of Virginia

9:30 am **W1-F.4**
Process and Technology Integration for Wildfire Risk Management
Megan Gunn
University of Virginia

9:50 am **W1-F.5**
Policy Analysis for Resilience of Water Systems with Emergent Threats
Matthew Gunn
University of Virginia

8:30 AM – 10:00 AM

W1-G
Democratizing Risk

Meeting Room 5

Chair: Marcelle Scadden

8:30 am **W1-G.2**
Building Community Trust in Public Health Institutions
Latifa Salangi
MSU

8:50 am **W1-G.3**
Risk without values: the necessity of including Indigenous perspectives in climate risk assessments
Marcelle Scadden
University of Canterbury

9:10 am **W1-G.4**
“The World is a Scary Place”: Gen Z Views on Risk
Gabriel Rubin
Montclair State University

9:30 am **W1-G.5**
Strengthening Local Crisis Preparedness: Using a Crisis Scenario to Examine Crisis Communication and Community Preparedness in a Lithuanian Border Community
Audrone Telesiene
Kaunas University of Technology

9:50 am **W1-G.6**
Understanding what leads scientists to prioritize societally useful research
John Besley
Michigan State

8:30 AM – 10:00 AM

W1-H
Roundtable: Entangling or Disentangling: How to Improve Mutual Understanding Between Risk Assessment and Risk Management

Magnolia A

Chairs: Michael Dourson, Robert Waller

The Society for Risk Analysis' (SRA) Applied Risk Management Specialty Group (ARMSG) developed the Risk Analysis Quality Test (RAQT) to clarify understanding of what both risk analysts and risk managers should expect in terms of quality in risk analysis. This has proven valuable for identifying and addressing many shortfalls in meeting technical requirements for risk analysis, Still, some risk managers considered that it did not adequately address the issue of whether the resulting, technically correct, analysis would be "fit for purpose". It appears that addressing the issue of fit for purpose through direct communication between technical risk analysts and risk management decision maker would be required. This roundtable is being jointly organized and sponsored by the ARMSG and Risk Policy and Law Specialty Group (RPLSG)

Four prominent and respected panelists will each present, in their experience, how to best connect risk assessment and risk management for overall benefit to society. Each presenter will be asked to speak for 5 to 10 minutes highlighting past failures as well as leaps in success and provide their thoughts on the greatest challenges and opportunities ahead. 40 to 50 minutes is planned for audience and panel discussion and exploration. Ideally, the discussion will lead to concrete suggestions for what risk practitioners individually, and SRA collectively, can do to improve our service to society. The sponsoring specialty groups, Applied Risk Management and Risk Policy and Law anticipate that the session will provide ideas on how the groups can work together to address common challenges and opportunities.

Panelists:

- Tony Cox, Cox Associates
- Sharon Calvin, Public Health Agency of Canada
- Silvia Maberti, ExxonMobil Biomedical Sciences, Inc.
- Karyn Schmidt, American Chemistry Council

10:30 AM – 12:00 PM

W2-A
Risk and Deep Uncertainty - Disasters and Stochasticity

River Birch Ballroom A

Chair: TBD

10:30 am **W2-A.1**
Understanding the Resilience of Supply Chains: A Case for Reverse Stress Testing
Madison Smith
Credere Associates LLC

10:50 am **W2-A.2**
Assessment of community resilience frameworks: a validation through community outcomes after disaster events
Donghwan Gu
National Institute of Standards and Technology

11:10 am **W2-A.3**
Strategic uncertainty and heterogeneous costs in a collective risk social dilemma
Connor Lubsen
University of Wyoming

11:30 am **W2-A.4**
Advancing Supply Chain Network Resilience Modeling with Public Empirical Data
Nolan Feeny
University of Michigan

10:30 AM – 12:00 PM

W2-B
Climate Finance for Hazards and Energy

River Birch Ballroom B

Chair: TBD

10:30 am **W2-B.1**
Economic implications of climate change and infrastructure resilience on inland waterways through climate finance
Celine Wehbe
Vanderbilt University

10:50 am **W2-B.2**
Climate Change and Regulatory Risk in Banking: The Double-Edged Sword of France's Law on Energy Transition for Green Growth
Salvatore Polizzi
Università degli Studi di Palermo

10:30 AM – 12:00 PM

W2-C
Lightning Talks #2

Potomac Ballroom

Chair: TBD

10:30 am **W2-C.1**
Climate resilience in French Polynesia: a mixed methods exploration in Bora-Bora
Charlotte Heinzlef
University Paris Saclay, UVSQ - CEARC

10:35 am **W2-C.2**
A Comprehensive Framework for Solar-Powered EV Charging Station Placement in Washington DC Using Hierarchical Clustering and Cost Optimization
Easha Rajalaxmi Vivesh
The George Washington University

10:40 am **W2-C.3**
USDA regulation of genetically engineered organisms
Amanda Kenney
USDA APHIS Biotechnology Regulatory Services

10:45 am **W2-C.4**
Expanding the Results Pyramid to facilitate risk communication
George Gruetzmacher
WI State Laboratory of Hygiene

10:50 am **W2-C.5**
Blending mechanistic models with machine learning to improve exposure risk predictions for environmental contaminants
Jacqueline MacDonald-Gibson
North Carolina State University

10:55 am **W2-C.6**
Risk Governance of Artificial Intelligence in Europe: National Strategies and the EU AI Act
Anca Rusu
International Risk Gouvernance Center

11:00 am **W2-C.7**
A framework for evolving assumptions in risk analysis
Kendrick Hardaway
Purdue University

10:30 AM – 12:00 PM

W2-D
Crisis Preparedness and Systemic Risks

Meeting Room 2

Chair: Henry Willis

10:30 am **W2-D.1**
Systemic Risk and Critical Infrastructure: Insuring Catastrophic Cyber Risk
Henry Willis
RAND

10:50 am **W2-D.2**
Systemic Risk and Critical Infrastructure: Building Urban Water Security Ahead of Crisis
Sara Hughes
RAND

11:10 am **W2-D.3**
Systemic Risk and Critical Infrastructure: How Coastal Managers in the Great Lakes Use Hydroclimate Information for Risk Communication and Decision-Making
Amy Van Zanen
University of Michigan School for Environment and Sustainability

11:30 am **W2-D.4**
Order of magnitude strategy to assess the relative efficacy of strategies to reduce risks to distribution systems from tropical cyclones
Maryam Hamidi
Carnegie Mellon University

10:30 AM – 12:00 PM

W2-E
Equitable Access to Critical Infrastructure in an Era of Disasters

Meeting Room 3

Chair: Florence Dadzoe

10:30 am **W2-E.2**
Undermining our health infrastructure: Risks to primary healthcare access under climate change
Darcy Glenn
University of Canterbury

10:50 am **W2-E.3**
Coupling Land Use Planning and Multi-Stakeholder Dynamics to Inform Disaster Risk Management: Who Pays for Risk and Who Gains from Intervention?
Jingya Wang
University of Delaware

11:10 am **W2-E.4**
Enhancing Equitable Access to Pharmacies: Integrating Human Mobility into Location Optimization
Theo Sprouse
California Polytechnic State University, San Luis Obispo

11:30 am **W2-E.5**
Analysis of EV Charging Infrastructure Vulnerabilities During Disaster-Induced Power Outages
Man Liang
University of Maryland

11:50 am **W2-E.6**
Bridging the Maintenance Gap: Equity-Centered Prioritization for Transportation Infrastructure
Florence Dadzoe
University of Massachusetts Amherst

10:30 AM – 12:00 PM

W2-F
Symposium: Exploring Public Attitudes Toward Contemporary Risks

Meeting Room 4

Chair: TBD

10:30 am **W2-F.1**
Exploring public attitudes toward contemporary risks
Fabienne Michel
ETH Zurich

10:50 am **W2-F.2**
Hope or Hype? Public perceptions of the direct air capture of CO2 for mitigating (or compounding?) the risks from climate change.
Joe Arvai
USC

11:10 am **W2-F.3**
License to Krill: Psychological Mechanisms Underlying Public Endorsement of Fish Oil and Other Dietary Supplements
Caitlin Drummond Otten
Arizona State University

11:30 am **W2-F.4**
Trust and acceptance of model-based chemical risk assessment
Tom Jansen
RIVM: National Institute for Public Health and the Environment

11:50 am **W2-F.5**
Understanding public acceptance of AI in the context of medicine and finance: Insights from Switzerland
Fabienne Michel
ETH Zurich

12:10 pm **W2-F.6**
How reliable are results from commercial online panels in risk perception research
Michael Siegrist
ETH Zurich

10:30 AM – 12:00 PM

W2-G
Trust, Power & Politics of Risk

Meeting Room 5

Chair: Janet Yang

10:30 am **W2-G.1**
Communicating risk across the political divide: Assessing Institutional Trust over Time
Cherie Metcalf
Queen's University

10:50 am **W2-G.2**
Dominance and depth: the role of petro-masculinities in geothermal rhetoric and policy
Catherine Lambert
Northeastern University

11:10 am **W2-G.3**
Values, Risks, and Trust: Understanding Determinants of Stage Progression within the Social License to Operate Framework
Nathan Smith
University of Maine

11:30 am **W2-G.5**
A Cohered Model of Business Resilience Capability for Small Businesses
Jonathan Mantey
Anglia Ruskin University

10:30 AM – 12:00 PM

W2-H
Symposium: Current Issues in Benefit-Cost Analysis

Magnolia A

Chair: TBD

10:30 am **W2-H.1**
Stated Preferences and Numerical Ability: Implications for Public Policy Analysis
Michael Eber
University of Massachusetts Amherst

10:50 am **W2-H.2**
Analysis in the New Administration
Caroline Cecot
The George Washington University Law School

11:10 am **W2-H.3**
Equity and the value per statistical life
Maddalena Ferranna
University of Southern California

11:30 am **W2-H.4**
Benefit-cost analysis in low- and middle-income countries
Lisa Robinson
Harvard T.H.Chan School of Public Health

11:50 am **W2-H.5**
Social Welfare Functions and Health Policy
Matthew Adler
Duke University

1:30 PM – 3:00 PM

W3-A
Advances in Risk and Resilience Practice

River Birch Ballroom A

Chair: TBD

1:30 pm **W3-A.1**
Globally Critical Infrastructure: the Unique Systemic Risks and Challenges
Henry Willis
RANDn

1:50 pm **W3-A.2**
Risk Assessment of the Impacts of Climate Change on the Operational Resiliency of Health System Operations
Emma Hartnett
Risk Sciences International

2:10 pm **W3-A.3**
Critical infrastructure network resilience optimization
Yifei Li
Stanford University

2:30 pm **W3-A.4**
An expert judgment process for improving the scientific credibility of resilience indicator selection
Michael Gerst
National Institute of Standards and Technology

1:30 PM – 3:00 PM

W3-B
Symposium: AI for Critical Infrastructure Resilience: Enhancing Adaptive Capacity to Weather Extremes

River Birch Ballroom B

Chair: TBD

1:30 pm **W3-B.1**
AI for Critical Infrastructure Resilience: Enhancing Adaptive Capacity to Weather Extremes
Sayanti Mukherjee
University at Buffalo, The State University of New York

1:50 pm **W3-B.2**
Renewable Energy Systems under Climate Extremes: An AI-Driven Framework for Proactive Resilience Planning
Renee Obringer
Pennsylvania State University

2:10 pm **W3-B.3**
A GenAI Integrated Predictive Framework for Wildfire Risk Forecasting of Interdependent Critical Infrastructures Under Information Uncertainty
Poulomee Roy
University at Buffalo

2:30 pm **W3-B.4**
Integrating Big Data Analytics and AI to Model County-level Composite Wildfire Risk and Damage Index in the US
Sayanti Mukherjee
University at Buffalo, The State University of New York

2:50 pm **W3-B.5**
A data-driven three-stage decision making framework to enhance wildfire resilience of electricity distribution systems
Sayanti Mukherjee
University at Buffalo, The State University of New York

3:10 pm **W3-B.6**
Quantifying uncertainty in probabilistic flood risk assessment for critical infrastructure
Yingqiang Xu
Vanderbilt University

1:30 PM – 3:00 PM

W3-C
Roundtable: Space Risks

Potomac Ballroom

Chair: Jonathan Wiener

Human activities in space are rising rapidly, with many more actors (both government and private/commercial) undertaking many more launches every year. This Roundtable on "Space Risks" will address the risk assessment, risk communication, and risk management (regulation/policy) of several pressing space risks, including: human health in space travel, space stations, and planetary settlement bases; planetary defense against asteroids; planetary protection against contamination; and geopolitical conflict or cooperation in space technologies.

Speaker topics will include addressing the need for interplanetary-scale risk management, including for planetary protection against contamination, and planetary defense against asteroids). Interaction with audience members is welcome.

Panelists:

- Dan Buckland
- Mary Van Baalen, NASA Johnson Space Center
- Arden Rowell, University of Illinois
- James Phillips, University of Oregon
- Charles (Chase) Hamilton, Akin Gump
- Jonathan Wiener, Duke University

1:30 PM – 3:00 PM

W3-D
Symposium: Evaluating the Resilience of a Supply and Demand Network of Critical Materials by Direct Observation, Graph Analysis, and Agent-Based Stress Testing

Meeting Room 2

Chair: John Santini

1:30 pm **W3-D.1**
Evaluating the Resilience of a Supply and Demand Network of Critical Materials by Direct Observation, Graph Analysis, and Agent-Based Stress Testing
John Santini
RTX BBN Technologies

1:50 pm **W3-D.2**
Stress Testing Supply Chains for Resilience using an Agent-Based Model
Jonathan Goldstein
RTX BBN Technologies

2:10 pm **W3-D.3**
Are More Competitive Supply Chains More Resilient? Evidence from Defense Industrial Base (DIB) Supply Chains
Noah Dormady
The Ohio State University

2:30 pm **W3-D.4**
The Impact of US-China Trade Wars on Supply Chains for Critical Materials: A Computable General Equilibrium Analysis
Adam Rose
University of Southern California

1:30 PM – 3:00 PM

W3-E
Roundtable: The Inherent Normativity of Risks. Ethical Reflections on Risk Assessment

Meeting Room 3

Chairs: Jenjamin Hofbauer, Paul Einhäupl

Risk is an inherently normative, value-laden concept – one cannot speak of a risk, without implying that something should be avoided, protected, or is at least worthy of care. Colloquially, one might claim that something can only be described as being a risk in the context of harm, or a potential consequence that we seek to avoid. Regardless, even an outcome we might welcome, such as a 'happy accident,' is value-laden because it was unanticipated but positively evaluated. This is what scholars from risk ethics and the philosophy of risk mean, when they assert that risks cannot be discussed without an underlying, implicit ethical basis of what matters, and what we should care about.

This panel explores risk's inherent normativity and the implications this brings for risk analysis and assessment. This exploration should serve as a foundation for further practical and theoretical deliberation in the field. This means the panel will also explore how value considerations can be systematically integrated into risk assessment methods and modeling practices. This includes examining practical strategies for embedding normative reflection into both qualitative assessments and quantitative modeling approaches. Importantly, the panel should create a space for open deliberation and reflection on the moral questions that inevitably arise in the context of analyzing and assessing risks.

The panel will address three central questions:

1. How can we systematically identify and account for values embedded in risk assessment processes?
2. What ethical responsibilities arise for those involved in analyzing and distributing risk?
3. How should competing or conflicting values be navigated in participatory or stakeholder-oriented risk assessment and modeling?

1:30 PM – 3:00 PM

W3-F
Symposium: Quantifying Risk, Resilience, and Impacts in Communities and Infrastructure Systems

Meeting Room 4

Chair: TBD

1:30 pm **W3-F.1**
Quantifying Risk, Resilience, and Impacts in Communitites and Infrastructure Systems
Benjamin Rachunok
North Carolina State University

1:50 pm **W3-F.2**
A Generative AI approach to model household-level adaptation in a historically flood-prone city
Chao Fan
Clemson University

2:10 pm **W3-F.3**
Combining synthetic generators, machine learning, and open-source simulation models for current and future grid stress-testing
Jordan Kern
North Carolina State University

2:30 pm **W3-F.4**
Incorporating Equity and Fairness into a Mathematical Model for Power Restoration After Natural Hazards
Benjamin Rachunok
North Carolina State University

2:50 pm **W3-F.5**
Characterizing Population Mobility Patterns from Low-Attention Urban Flooding in Southeast Michigan
Yue "Major" Zeng
University of Michigan

3:10 pm **W3-F.6**
Dependence Analysis Between County Level Power and Cell Tower Outages in the United States
Elizabeth Harris
North Carolina State University

1:30 PM – 3:00 PM

W3-G
Hydrogen and Power Grids

Meeting Room 5

Chair: TBD

1:30 pm **W3-G.1**
Enabling Safe Growth in Hydrogen: The Transformative Role of Risk Analysis
Katrina Groth
University of Maryland

1:50 pm **W3-G.2**
Paving the Way for Safe and Reliable Hydrogen Fueling Stations with Probabilistic Component Data Analysis and Bayesian Methods
Lauren Reising
University of Maryland

2:10 pm **W3-G.3**
Integrating societal and environmental impacts into power sector modeling
Bethany Kwoka
PSE Healthy Energy

3:30 PM – 5:00 PM

W4-A
Risk and Resilience Methodologies for Organizations

River Birch Ballroom A

Chair: TBD

3:30 pm **W4-A.1**
Analysis of an Illustrative Civil Aviation Authority Organization Using System-Theoretic Process Analyses (STPA)
Joao Souza Dias Garcia
Embry-Riddle Aeronautical University

3:50 pm **W4-A.2**
Stochastic Modeling for Improved Safety Risk Analysis
José Luis Covarrubias R.
EdukaSafety

4:10 pm **W4-A.3**
A weighted-based judgement aggregation approach using expert capability and closeness measures
Hanqin Zhang
University of Southampton

4:30 pm **W4-A.4**
From surviving to thriving: stress testing for threat-agnostic urban resilience
José Manuel Palma-Oliveira
University of Lisbon

3:30 PM – 5:00 PM

W4-B
Symposium: Enhancing Resilience to Climate Risks in Most Vulnerable Territories: Does Cultural Heritage, When Integrated With Other Approaches, Contribute to Comprehensive Adaptation Pathways?

River Birch Ballroom B

Chair: TBD

3:30 pm **W4-B.1**
Enhancing resilience to climate risks in most vulnerable territories: does cultural heritage, when integrated with other approaches, contribute to comprehensive adaptation pathways?
Charlotte Heinzlef
University Paris Saclay, UVSQ - CEARC

3:50 pm **W4-B.2**
Who defines resilience? What dominant narratives miss about community resilience in Coastal Northern Norway
Emma Wheeler
Norwegian University of Science and Technology

4:10 pm **W4-B.3**
Climate migration and community relocation as an adaptive strategy: The reality in the Arctic
Guangqing Chi
Indiana University

4:30 pm **W4-B.4**
Climate resilience in the pacific: critical review of concepts, methods and cultural integration
Hugo Comes
Université Paris Saclay

4:50 pm **W4-B.5**
Pursuing continuance in the face of multiple, diverse risks: Considering the consequences of connectivity for food system resilience among Alaskan communities
Erika Gavenus
Indiana University

3:30 PM – 5:00 PM

W4-C
Modeling Infrastructure Risk and Resilience: From Networks to Communities

Potomac Ballroom

Chair: David Alderson

3:30 pm **W4-C.1**
A Risk-Centric Evaluation of Filling Station Siting Practices: Insights on Safety, Compliance, and Environmental Sustainability
Barret Akhatsokhe

3:50 pm **W4-C.2**
The impact of extreme weather event exposure on violence against women in low- and middle-income countries
Liza Goldberg
Stanford University

3:30 PM – 5:00 PM

W4-D
Symposium: Risk Analysis of Critical Infrastructure: Leveraging Function-driven Ontologies and Graph Databases

Meeting Room 2

Chair: Ruby Booth

:30 pm **W4-D.1**
Risk Analysis of Critical Infrastructure: Leveraging Function-driven Ontologies and Graph Databases
Cyrus Bonyadi
Sandia National Laboratories

3:50 pm **W4-D.2**
Aligning Operational Functional Analysis for Enhanced Critical Infrastructure Resilience.
Danielle Jacobs
Sandia National Laboratories

4:10 pm **W4-D.3**
Defining the Risk of Functions Due to Asset-Level Shocks
Kevin Stamber
Sandia National Laboratories

4:30 pm **W4-D.4**
Assessing Consequences of Digitally Integrated Assets through the Cyber Risk Framework
Cyrus Bonyadi
Sandia National Laboratories

3:30 PM – 5:00 PM

W4-E
Health Risk Analysis and Communication

Meeting Room 3

Chair: TBD

3:30 pm **W4-E.1**
Time series analysis of highly pathogenic avian influenza H5N1 in commercial and non-commercial flocks in the United States
Mark Powell
USDA/OCE

3:50 pm **W4-E.2**
Framing Invisible Risks: A Cross-National Comparison of UV-C Technology Adoption and Risk Communication Strategies
Young Yun
University of Maryland - College Park

4:10 pm **W4-E.3**
Interpreting the risks of lead ammunition: a relational theory of risk case study
Dominic Balog-Way
Cornell University

4:30 pm **W4-E.4**
A century of success in creating scientific knowledge and regulating health risks of ionizing radiation
Roger McClellan
Toxicology and Risk Analysis

4:50 pm **W4-E.5**
Making sense of risk: How structured information delivery enhances patient participation
Hoda Fakhari
Northwestern University

3:30 PM – 5:00 PM

W4-F
Symposium: Risk Analysis in the Arctic

Meeting Room 4

Chair: TBD

3:30 pm **W4-F.1**
Risk Analysis in the Arctic
Rajesh Kandel
Vanderbilt University

3:50 pm **W4-F.2**
An Integrated Risk Prediction Framework for Arctic Maritime Shipping
Rajesh Kandel
Vanderbilt University

4:10 pm **W4-F.3**
A Game-Theoretic and MCDA Framework for Sustainable Arctic Development: Balancing Economic Interests, Security, and Indigenous Rights
Yiqi Zhao
PhD Student

4:30 pm **W4-F.4**
Maritime Security and Enterprise Risk Management for Arctic Regions
James H. Lambert
University of Virginia, USA

4:50 pm **W4-F.5**
A Bayesian network approach for incident risk assessment in global maritime transport
Alireza Azadnia
George Mason University

3:30 PM – 5:00 PM

W4-G
Public Perceptions of Emerging Risks

Meeting Room 5

Chair: TBD

3:30 pm **W4-G.1**
Public health risk perception, healthcare access, and confidence in emergency preparedness: an analysis of urban–rural disparities in Africa
Lois Addo Agyepong
Shandong University

3:50 pm **W4-G.2**
Cognitive Determinants of Normalcy Bias
Robin Dillon-Merrill
Georgetown University

4:10 pm **W4-G.4**
A lending service for magnetic field meters and its role in mitigating public risk perception of electromagnetic fields (EMFs)
Chiyoji Ohkubo
JapanEMF Information Center

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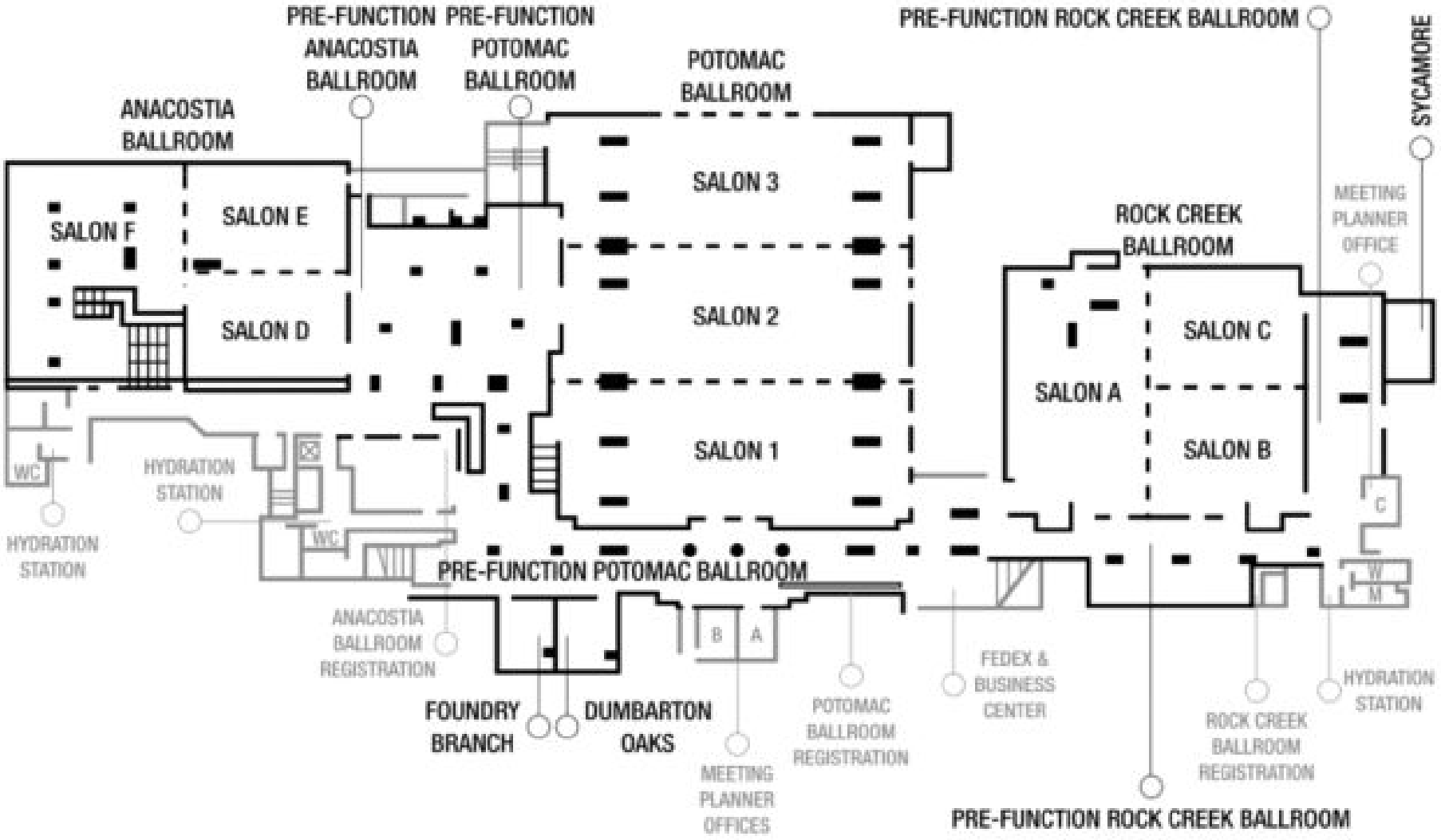
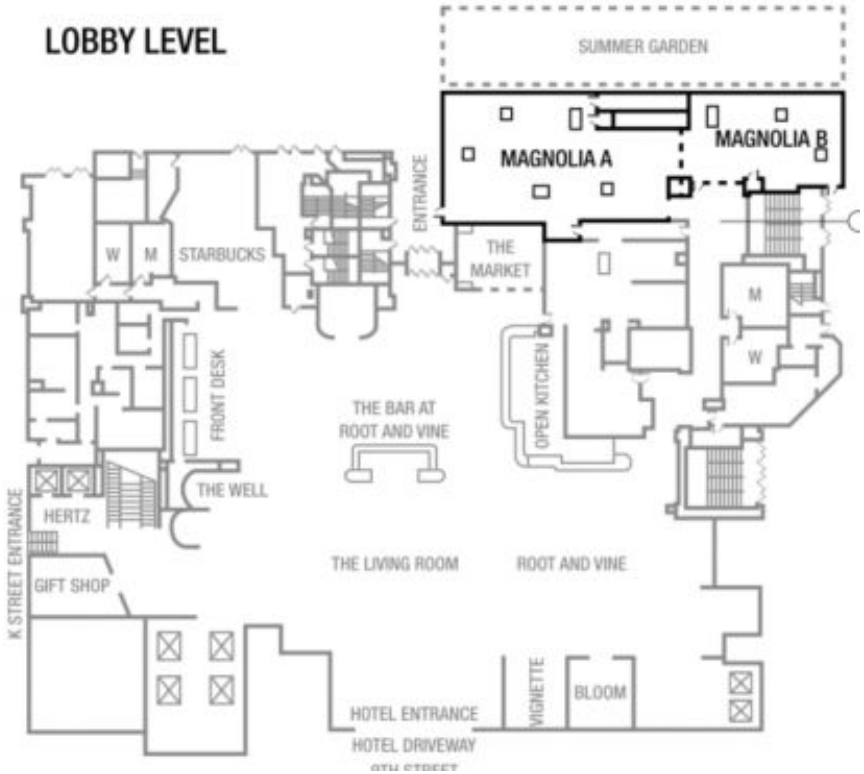
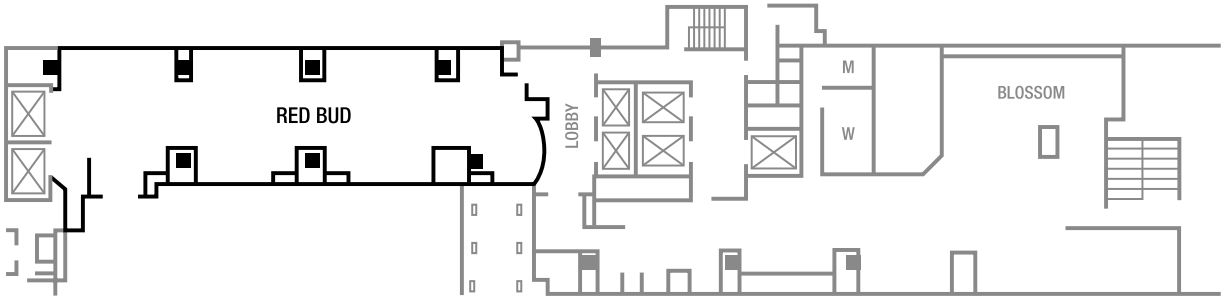
Westin Downtown DC Floor Plans

BALLROOM LEVEL



Westin Downtown DC Floor Plans





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