2023 RESEARCHERS MEETING

NEW FRONTIERS OF DISASTER RESEARCH

ACTION-ORIENTED APPROACHES TO SOLVE COMPLEX CHALLENGES



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ACTION-ORIENTED APPROACHES TO SOLVE COMPLEX CHALLENGES

JULY 12 - 13, 2023 OMNI INTERLOCKEN HOTEL BROOMFIELD, COLORADO

The Researchers Meeting is organized by the International Sociological Association Research Committee on Disasters (ISA-RC39) with the support of the Natural Hazards Center and the Natural Hazards Engineering Research Infrastructure (NHERI) CONVERGE facility at the University of Colorado Boulder.















This meeting is supported by the National Science Foundation (NSF), Division of Civil, Mechanical, and Manufacturing Innovation (CMMI) (Award #1841338 and Award #1635593). Any opinions, findings, conclusions, or recommendations expressed in this meeting are those of the participants and do not necessarily reflect the views of the NSF.

TABLE OF CONTENTS

MEETING DETAILS ≥	
Welcome and Overview	1
Wireless Internet Access	
Meals	2
An Inclusive Meeting, An Inclusive Community	3
COVID-19 Safety Protocols	3
Hotel Map	4
SESSIONS AND EVENTS >	
Welcome, Recognition, and Opening Remarks	5
Plenary: Interdisciplinary Collaboration, Equity, and Community Engagement	
Wednesday Afternoon Concurrent Paper Sessions	7
Evening Reception with the Research Community	14
Coffee with National Science Foundation Program Directors	14
Thursday Morning Concurrent Paper Sessions	15
Thursday Afternoon Concurrent Paper Sessions	29
Closing Discussion and Agenda Setting	
Researchers Meeting Abstracts	43
MEETING COORDINATION AND RESOURCES ≥	
Organizing Committee	44
Student Volunteers	45
ISA-RC39 Executive Board 2022-2023	46
Hazards and Disaster Journals	47
International Journal of Mass Emergencies and Disasters	
Global Hazards and Disaster Research Centers List and Map	
CONVERGE	
Subscription Information	
Researchers Meeting Survey	
Save the Dates	
ACKNOWLEDGMENTS ≥	
Special Thanks	
Funding Support	
PARTICIPANTS >	
Participant List	58



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NEW FRONTIERS OF DISASTER RESEARCH: ACTION-ORIENTED APPROACHES TO SOLVE COMPLEX CHALLENGES

Many social and environmental forces are driving ever more complex disasters that take a disproportionate toll on marginalized communities. Their compounding and cascading impacts challenge risk reduction, response, and recovery actions, while confronting researchers with novel problems to be understood and solved. In response, the 2023 Researchers Meeting will focus on convergent and action-oriented approaches to disaster research. Special sessions will showcase best practices and provide opportunities to further build interdisciplinary teams that partner with frontline communities to address increasingly frequent and intense disasters.

This year, we are excited to return to an in-person format for the first time since 2019. We received submissions from hazards and disaster researchers in two categories:

- General submissions summarizing ongoing or recently completed research projects focused on any pressing topic in the field of hazards and disaster research; and
- Thematic submissions summarizing research involving partnerships with frontline communities to conduct interdisciplinary, convergent research that informs and supports action.

In addition to providing updates on cutting-edge research, this year's program is designed to provide new opportunities for building research collaborations. New session formats include lightning talks and training and networking sessions to help establish partnerships and research-to-action synergies. We will also strengthen teams by connecting diverse researchers across career stages and disciplines.

On behalf of the Researchers Meeting Organizing Committee, we are so pleased to feature new research and are excited to see you at the Omni Interlocken Hotel in Broomfield. Colorado. We look forward to learning from you as we work together to advance hazards research and disaster science.

Sara Hamideh, 2023 Researchers Meeting Chair Stony Brook University

Sabine Loos, 2023 Researchers Meeting Co-Chair University of Michigan



WIRELESS INTERNET ACCESS

Wireless Internet is available in all the Researchers Meeting areas in the hotel. Login information to access the Internet is listed below and will be displayed on social media screens in the Interlocken Foyer.

Network Name: Natural Hazards Workshop

Password: 2023Workshop

MEALS

Tickets for lunches at the outdoor pavilion on Wednesday and Thursday should have been purchased when you registered for the Researchers Meeting. If you do not have a ticket and would still like to join, please see the staff at the registration desk in the Atrium of the hotel to see if there are any tickets still available for purchase.

If you purchased meals in advance, your name badge will have stickers indicating which lunches you will attend.

The cash bar and appetizers on Wednesday evening, morning coffee, and afternoon breaks are open to all participants. Please scan the QR code below for additional meal and dining options near the Omni Hotel.



PARTICIPANT LIST

A list of participants and their contact information is included at the end of this program. We compiled this list of Researchers Meeting attendees to ensure that you can find and follow up with people that you meet here. Please be courteous and refrain from sending product or service solicitations to participants.

FOR THE MOST RECENT PROGRAM UPDATES, VISIT:

HAZARDS.COLORADO.EDU/WORKSHOP/2023/RESEARCHERS-MEETING/SCHEDULE



AN INCLUSIVE MEETING, AN INCLUSIVE COMMUNITY

The Natural Hazards Center is a part of the University of Colorado Boulder, which is an institution committed to providing an inclusive environment where all individuals can achieve their academic and professional aspirations free from discrimination, harassment, and/ or related retaliation based on race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation, or political philosophy. We ask that all Researchers Meeting attendees be respectful and supportive of one another. Should an issue arise that violates these ideals, please report it to Natural Hazards Center staff members at the registration desk so appropriate action can be taken. All staff members will have ribbons on their badges.

COVID-19 SAFFTY PROTOCOLS

We are excited to return to an in-person Researchers Meeting here in Broomfield, Colorado. Please know that while we are thrilled to be together again, our top priority is to keep all members of our community safe and respect those concerned about COVID-19 or other infections

In recognition of our commitment, we strongly encourage you to take the following precautions for the health and safety of all participants:

- Take a COVID-19 test before traveling to the Workshop.
- Do not attend any sessions or events if you are COVID-19 positive or otherwise feeling ill.
- Consider wearing a mask in all public areas, maintain a reasonable distance from others whenever possible, and frequently sanitize your hands.

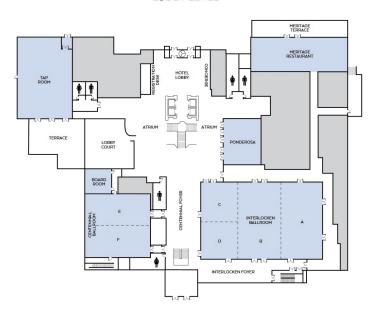
We have included a complimentary Natural Hazards Center mask in your welcome bag and additional masks can be picked up at the registration table as needed. Hand sanitizer is available in each meeting room.

We ask all participants to please follow all University of Colorado Boulder, Boulder County, and Centers for Disease Control and Prevention public health policies related to COVID-19 as guidance is subject to change at any time. We have links to each of the policies on our website at: hazards.colorado.edu/workshop/2023/covid-19-guidance.



OMNI INTERLOCKEN HOTEL

LOBBY LEVEL



GARDEN LEVEL





WEDNESDAY, JULY 12

REGISTRATION

12:45 to 5:45 p.m. MDT

Location: Atrium



12:45 to 2:00 p.m. MDT - Outdoor Pavilion

WELCOME, RECOGNITION, AND OPENING REMARKS

2:00 to 2:30 p.m. MDT

Location: Centennial Ballroom

Please join us for this opening session for the 2023 Researchers Meeting, organized by the International Sociological Association Research Committee on Disasters (ISA-RC39) with the support of the Natural Hazards Center and the Natural Hazards Engineering Research Infrastructure (NHERI) CONVERGE facility at the University of Colorado Boulder. Participants will hear more about this year's theme and the organization of the sessions. In addition, ISA-RC39 leadership will recognize award recipients, share ideas for getting involved in the committee, and encourage presenters to publish their work in the International Journal of Mass Emergencies and Disasters.

SPFAKERS:

Bill Lovekamp, Eastern Illinois University

Past President, ISA-RC39

Michèle Companion, University of Colorado Colorado Springs

President, ISA-RC39

Sara Hamideh, Stony Brook University

Chair, Researchers Meeting Organizing Committee

Sabine Loos, University of Michigan

Co-Chair, Researchers Meeting Organizing Committee



PLENARY—INTERDISCIPLINARY COLLABORATION, EQUITY, AND COMMUNITY ENGAGEMENT

2:30 to 4:00 p.m. MDT

Location: Centennial Ballroom

Mounting disaster losses underscore the need for deeper interdisciplinary collaboration, community engagement, and rigorous research focused on understanding and reducing risks and vulnerability. This opening plenary session features recent research concerned with co-producing knowledge with people living at risk while also addressing pressing and long-term community needs. Presenters will share methodological innovations and new findings in resilience, relocation, and other areas in the context of multiple hazards.

MODERATORS:

Sara Hamideh, Stony Brook University

Chair, Researchers Meeting Organizing Committee

Sabine Loos, University of Michigan

Co-Chair, Researchers Meeting Organizing Committee

PRESENTATIONS:

Learning From Community Approaches Towards Building Resilience to Risks in Puerto Rico

Santina Contreras, University of Southern California Monique Lorenzo Pérez, Estudios Técnicos

Mismatched Perspectives on Flood Management Among Stakeholders:

Implications for Achieving Community Resilience

Sinta Sulistyo, Arizona State University

Datu Buyung Agusdinata, Arizona State University

Katja Brundiers, Arizona State University



Rural Resilience Assessments and Strategies: A Case Study in Kamiah, Idaho

Brittany Brand, Boise State University

Carson MacPherson-Krutsky, Boise State University

Collaborating to Mitigate Compounding Trauma in Disaster: Evacuations and **Displacement in Indigenous Communities**

Lilia Yumagulova, University of Saskatchewan

Rosalita Whitehair. Diné Nation

Simon Lambert, University of Saskatchewan

Darlene Munro, Siksika Nation

Adapting and Applying the Chains of Consequences Method to Post-Fire Hazard Consequences

Briar Goldwyn, U.S. Geological Survey James Meldrum, U.S. Geological Survey Rudy Schuster, U.S. Geological Survey

4:00 to 4:15 p.m. MDT

TRACK 1: HAZARDS AND HEALTH HEALTH IMPACTS OF DISASTERS

4:15 to 5:45 p.m. MDT Location: Interlocken A

MODERATOR:

Christopher Dyer, University of New Mexico—Gallup



PRESENTATIONS:

Investigating the Long-Term Impacts of Hurricane Maria on Puerto Rican Households

Nilima Islam Luba, Florida International University

Pallab Mozumder, Florida International University

The Mental Health Impact of Displacement: Evidence From Hurricane Maria

Tanvir Pavel, Rose-Hulman Institute of Technology

Pallab Mozumder, Florida International University

Mental Health Emergency Preparedness for the Public School Workforce

Courtney Welton-Mitchell, Colorado School of Public Health

Natalie Schwatka, Colorado School of Public Health

Communicators and Mental Health: Considerations for Disaster Anniversaries

Suzanne Horsley, The University of Alabama

TRACK 2: RISK AND RESILIENCE IN A CHANGING CLIMATE LINDERSTANDING RISK PERCEPTION

4:15 to 5:45 p.m. MDT

Location: Interlocken B

MODERATOR:

Elizabeth Reddy, Colorado School of Mines

PRESENTATIONS:

Community Perceptions of Flood Risk in the Context of Actual Hazard Indicators

Hanadi S. Rifai, University of Houston

Kathryn F. Anderson, University of Houston

Omar B Bustami, University of Houston

Darralyn "Nicole" Hart, University of Houston



Francisco Haces-Garcia, University of Houston Craig G. Glennie, University of Houston

Mapping People's Perceptions of Uncertainty Associated With Natural Hazards Science Advice

Emma Hudson-Doyle, Massey University

Jessica Thompson, Massey University

Stephen Hill, Massey University

Matt Williams, Massey University

Douglas Paton, Charles Darwin University

Sara Harrison, GNS Science

Ann Bostrom, University of Washington

Julia Becker, Massey University

A Century Later: Storytelling of Disasters and Perceptions of Risk

Irene Petraroli, Kyoto University

Understanding Risk Perception and Protective Action Decisions Among Cascadia **Coastal Emergency Managers**

Ashley Moore, University of Washington

Cassandra Jean, University of Washington

Matias Korfmacher, University of Washington

Jamie Vickery, University of Washington

Ann Bostrom, University of Washington

Nicole Errett, University of Washington

Risk Perception, Attitudes, and Behavior in Multi-Hazard Environments

Lauren Vinnell, Massey University

Emma Doyle, Massey University

Julia Becker, Massey University



Examining Inequities and Risk Perceptions in Federally Overlooked 100-Year Flood Zones in Phoenix

Aaron Flores, Arizona State University

Sara Meerow, Arizona State University

Kelli Larson, Arizona State University

TRACK 3: EMERGENCY MANAGEMENT EVIDENCE-BASED PRACTICES FOR EMERGENCY MANAGEMENT

4:15 to 5:45 p.m. MDT Location: Interlocken C

MODERATOR:

Naim Kapucu, University of Central Florida

PRESENTATIONS:

Preparing Emergency Management to Engage With Volunteer Rescue Organizations in Disaster

Tyler Eutsler, Texas A&M University

J. Carlee Purdum, Texas A&M University

Michelle Annette Meyer, Texas A&M University

Community-Based Disaster Response Organizations: Seattle Emergency Hubs and Sendai Bosai Leaders

Katherine Idziorek, University of North Carolina at Charlotte

Elizabeth Maly, Tohoku University

How Street-Level Bureaucrats Manage High Workloads in Disaster Management:

The Taiwanese Case

Kaiju Chang, National Chengchi University



Identifying Critical Decision Trees of First Responders in Underserved **Communities During Disasters**

Khondhaker Al Momin, University of Oklahoma

Rabia Albalushi, University of Oklahoma

Maisha Khan, University of Oklahoma

Arif Mohaimin Sadri, University of Oklahoma

K. K. Muraleetharan, University of Oklahoma

Joseph Ripberger, University of Oklahoma

Golnaz Habibi, University of Oklahoma

Randy McClure, McClure Management Consultants

Exploring Trust in Local Organizations Involved in Emergency Management Through Boolean Measurement

Scott Robinson, Northern Illinois University Junghwa Choi, University of Nebraska Omaha Clinton McNair, University of Oklahoma

TRACK 4: NEW APPROACHES AND MODELS IN DISASTER RESEARCH INCLUSION AND INNOVATION IN DISASTER RESEARCH

4:15 to 5:45 p.m. MDT Location: Interlocken D

MODERATOR:

Andrew Rumbach, Urban Institute

PRESENTATIONS:

Examining Historically Marginalized Disaster Scholars' Experiences with National Science Foundation-Funded Resources

Cassandra Jean, University of Washington

Jamie Vickery, University of Washington

Nicole Errett, University of Washington



The New Rapid Acquisition of Pre- and Post-Incident Disaster Data (RAPIDD) **Protocol Designer**

Aubrey Miller, National Institutes of Health

Ann Liu, National Institutes of Health

Steven Ramsey, National Institutes of Health

Erin Van Fleet, National Institutes of Health

Jacqueline Barkoski, National Institutes of Health

The National Institutes of Health Disaster Research Portfolio: Analysis of **Investment Priorities**

Laura Kiesel, MDB, Inc.

Ann Liu, National Institutes of Health

Trisha Castranio, National Institutes of Health

Richard Kwok, National Institutes of Health

Stasia Widerynski, MDB, Inc.

Betsy Galluzzo, MDB, Inc.

Aubrey Miller, National Institutes of Health

Implementing Successful, Just Team Science in a Post-Disaster, Hazard-Prone Landscape

Alicia Tyson, Colorado State University

TRACK 5: RECOVERY AND RESILIENCE INITIATIVES HOUSING RECOVERY TRAJECTORIES AND DISPARITIES

4:15 to 5:45 p.m. MDT Location: Ponderosa

MODERATOR.

Alexis Merdjanoff, New York University

PRESENTATIONS:

How Mexican Immigrant Women Navigate Cumulative Disaster Impacts and Long-**Term Housing Recovery**

Melissa Villarreal, Natural Hazards Center



Assessing the Impact of Presidential Declarations on Post-Flood Housing Recovery

Edward Bolte, Stanford University

Colleen Sharp, Stanford University

Rodrigo Costa, University of Waterloo

Corinne Bowers, Stanford University

Exploring the Experiences of Homeowners in the Reconstruction Program in Puerto Rico

Ivis García, Texas A&M University

Housing Disruption and Recovery: Longitudinal Case Study of Lumberton, North Carolina

Michelle Stanley, Texas A&M University

Wayne Day, Texas A&M University

Michelle Annette Meyer, Texas A&M University

Donghwan Gu, National Institute of Standards and Technology

Maria Dillard, National Institute of Standards and Technology

Elaina Sutley, University of Kansas

Sara Hamideh, Stony Brook University

Leonardo Dueñas-Osorio, Rice University

Shane Crawford, National Institute of Standards and Technology

Jarrod Loerzel, National Institute of Standards and Technology

John van de Lindt, Colorado State University

Jamie Kruse, East Carolina University

Advancing Equity-Focused Post-Disaster Community Recovery Using a Human-**Centered Uncertainty-Informed Decision Framework**

Sayanti Mukherjee, University at Buffalo

Diana Ramirez-Rios, University at Buffalo



EVENING RECEPTION WITH THE RESEARCH COMMUNITY

5:45 to 8:00 p.m. MDT Location: Lobby Court

Please join us for this casual evening reception where we will continue the day's discussions. Complimentary appetizers will be served and drinks will be available for purchase.

> ADJOURN 8:00 p.m. MDT

THURSDAY, JULY 13

REGISTRATION

7:30 a.m. to 3:00 p.m. MDT

Location: Atrium

COFFFF WITH NATIONAL SCIENCE FOUNDATION PROGRAM DIRECTORS

7:30 to 8:00 a.m. MDT Location: Interlocken C

Please rise and shine, grab a cup of coffee, and join us for this informal morning session. National Science Foundation (NSF) program directors will be there to share more about current funding priority areas. They will also answer questions about submitting solicited and unsolicited proposals to different programs, dissertation fellowships, early CAREER awards, and RAPID grants.

SPFAKERS:

Jacqueline Meszaros, National Science Foundation Robert O'Connor, National Science Foundation



 Break	
DHEAN	
8:00 to 8:15 a.m.	MDT

TRACK 1. HA7ARDS AND HFAITH

RESPONSE TO AND IMPACTS OF PUBLIC HEALTH EMERGENCIES

8:15 to 9:45 a.m. MDT Location: Interlocken C

MODERATOR:

Amy Helene Schnall, Centers for Disease Control and Prevention

PRESENTATIONS:

Pandemic Impacts on Homelessness in the New River Valley, Virginia

Christopher Dyer, University of New Mexico—Gallup Sharon Christner, Harvard Divinity School

Agenda Setting by Models: Exclusion, Short Circuiting, and Power in COVID-19 **Policy**

Eric Kennedy, York University

The Impact of Natural Disasters on Paycheck Protection Program Loan Utilization

Azin Al Kajbaf, Johns Hopkins University

Christina Gore, National Institute of Standards and Technology

Jarrod Loerzel, National Institute of Standards and Technology

Jennifer Helgeson, National Institute of Standards and Technology

The Local Approach to Public Health Emergencies

Vaswati Chatterjee, Villanova University

Theodore Arapis, Villanova University



Resilience Amid Role Strain: Childcare Providers During the COVID-19 Pandemic

Jessica Pardee, Rochester Institute of Technology

Jennifer Schneider, Rochester Institute of Technology

TRACK 2: RISK AND RESILIENCE IN A CHANGING CLIMATE INNOVATIONS IN VULNERABILITY AND RISK ASSESSMENT

8:15 to 9:45 a.m. MDT

Location: Interlocken D

MODERATOR:

Austin Becker, University of Rhode Island

PRESENTATIONS:

Quantifying Social Vulnerability With Empirical Predictive Modeling

Yi Victor Wang, Chapman University

Accounting for Social Equity in Quantitative Assessments of Disaster Risk

Sabine Loos, University of Michigan

Robert Soden, University of Toronto

Karen Barns, Arup

David Lallemant, Nanyang Technological University

Jocelyn West, Natural Hazards Center

Spatial Variability of Social Vulnerability Indicators to Flood Exposure

Shelley Hoover, University of Iowa

Eric Tate, University of Iowa

Network Governance for Enhancing Infrastructure Resilience to Flood Disasters

Naim Kapucu, University of Central Florida

Abdul-Akeem Sadiq, University of Central Florida

Qian Hu, University of Central Florida

Greg Foliente, The University of Melbourne

Samiul Hasan, University of Central Florida



Check on the Cemetery: A Geospatial Risk Assessment of Cemeteries in Southeast Louisiana

Jennifer Blanks, Texas A&M University

Alexander Abuabara, Texas A&M University

Flood Hazards for Public Housing From National Risk Index and Flood Factor

Janet Li, U.S. Department of Housing and Urban Development

TRACK 3: EMERGENCY MANAGEMENT IMPROVING FMFRGFNCY RESPONSE

8:15 to 9:45 a.m. MDT Location: Centennial E

MODERATOR:

Erica Gralla, The George Washington University

PRESENTATIONS:

Managing Evacuation Traffic in Rapidly Intensifying Hurricanes: Insights From Florida Emergency Managers

Barsha Manandhar, Florida International University

Nafisa Halim, Boston University

Pallab Mozumder, Florida International University

Samiul Hasan, University of Central Florida

Chiradip Chatterjee, University of North Florida

Placing the Blame: Disaster Looting Myths After Hurricanes Katrina and Ian

Mary Nelan, University of North Texas

Ashley Thomas, University of North Texas

Gary Webb, University of North Texas

Don't Look Up: Local Emergency Management and Falling Space Debris

Hans Louis-Charles, Virginia Commonwealth University



Amidu Kalokoh, Virginia Commonwealth University Jose Torres, The Bill Anderson Fund Thomas Jamieson, Victoria University of Wellington

Tsunami Drills to Increase Community Resilience and Disaster Research

Chen Chen, Oklahoma State University Haizhong Wang, Oregon State University Dan Cox, Oregon State University Lori Cramer, Oregon State University

TRACK 4: NFW APPROACHES AND MODELS IN DISASTER RESEARCH INNOVATIONS IN HAZARD MODELING

8:15 to 9:45 a.m. MDT Location: Centennial F

MODERATOR:

Chukwuebuka Nweke, University of Southern California

PRESENTATIONS:

The New Fire Weather Testbed From the National Oceanic and Atmospheric Administration

Daniel Nietfeld, National Oceanic and Atmospheric Administration Zach Tolby, National Oceanic and Atmospheric Administration

Puerto Rico Landslide Forecast Network

Stephen Hughes, University of Puerto Rico Mayagüez

Flood Finder: An Al-Enhanced Internet Search and Information Retrieval System for **Flooding**

Rohan Singh Wilkho, Texas A&M University Nasir Gharaibeh, Texas A&M University



A GeoAnnotator for Labeling Location Descriptions From Disaster-Related Text Messages

Yingjie Hu, State University of New York at Buffalo

A Framework for Flexible Peak Storm Surge Prediction

Benjamin Pachev, University of Texas at Austin

Prateek Arora, New York University

Carlos del-Castillo-Negrete, University of Texas at Austin

Eirik Valseth, Norwegian University of Life Sciences

Clint Dawson, University of Texas at Austin

Spatio-Temporal Storm Surge Predictions Using Gaussian Process Surrogate Models

Aikaterini Kyprioti, University of Oklahoma

Chris Irwin, University of Notre Dame

Alexandros Taflanidis, University of Notre Dame

Norberto Nadal-Caraballo, United States Army Corps of Engineers

TRACK 5: RECOVERY AND RESILIENCE INITIATIVES

DISASTER DISPLACEMENT AND SHELTER NEEDS IN RECOVERY

8:15 to 9:45 a.m. MDT

Location: Spruce

MODERATOR:

Scott Robinson, The University of Oklahoma

PRESENTATIONS:

Safe but Stifled: The Impact of Risk and Resilience Among Shelter Residents

Kaila Witkowski, Florida Atlantic University

Matt Marr, Florida International University

Natalia da Silva, Stetson University

Jack Vertovec, Behavioral Science Research Institute



The Governance of Post-Disaster Relocation Sites as "Camps"

Christine Gibb, University of Ottawa

Kaira Zoe Alburo Cañete, International Institute of Social Studies

Kanako luchi, Tohoku University

Temperatures Experienced by Unsheltered Communities Based on Different Tent **Shading Materials**

Joseph Karanja, Arizona State University Jaime Vieira, University of Arizona Jennifer Vanos, Arizona State University

A Framework for Estimating Post-Disaster Long-Term Homeless K-12 Students

Ram Krishna Mazumder, Arcadis

S. Amin Enderami, University of Kansas

Nathanael Rosenheim, Texas A&M University

Elaina Sutley, University of Kansas

Michelle Stanley, Texas A&M University

Michelle Annette Meyer, Texas A&M University

	BREAK	
9·45 t	o 10·15 a m	MDT

TRACK 1: HA7ARDS AND HFAITH COMPOUNDING FFFFCTS OF DISASTERS AND HEALTH VIII NERABILITY

10:15 to 11:45 a.m. MDT Location: Interlocken C

MODERATOR:

Oronde Drakes, U.S. Geological Survey



LIGHTNING TALKS:

Analyzing Health Impacts of Natural Disasters in Puerto Rico for Promoting Resilience

Pallab Mozumder, Florida International University

Linnette Rodriguez-Figueroa, University of Puerto Rico

Mayra Quiles-Miranda, University of Puerto Rico

Barsha Manandhar, Florida International University

Sisi Meng, University of Notre Dame

Nafisa Halim, Boston University

Leaving No One Behind: A Public Policy Perspective on Disability-Inclusive **Disaster Risk Reduction**

Valentina Grossi, Global Policy Insights

Examining the Impact of Financial Loss on Depression Symptoms Among **Hurricane Survivors in North Carolina**

Kristen N. Cowan, University of North Carolina

Elizabeth Frankenberg, University of North Carolina

Nikhil Kothegal, University of North Carolina

Nathan Dollar, University of North Carolina

Children With Disabilities and Social Vulnerability During Pandemic School Closures

Shawna Bendeck, Colorado State University

Excess Mortality Modeling of Hurricane Michael

Blake Scott, University of South Florida

Russell Kirby, University of South Florida

Anthony Masys, University of South Florida

Jennifer Marshall, University of South Florida

Jaime Corvin, University of South Florida

Analysis of the Impact of the COVID-19 Epidemic on People's Travel

Jen te Pai, National Chengchi University



Integrative Planning in Tribal Communities: The Hazards-Health Nexus

Nicole S. Hutton, Old Dominion University

Wie Yusuf, Old Dominion University

Risk and Protective Factors Associated With Post-Tornado Distress Among Persons with Disabilities

Sangwon Lee, University of Tennessee, Knoxville Jennifer First, University of Tennessee, Knoxville

TRACK 2: RISK AND RESILIENCE IN A CHANGING CLIMATE

CRITICAL APPROACHES IN DISASTER RISK REDUCTION

10:15 to 11:45 a.m. MDT

Location: Interlocken D

MODERATOR:

Maria Ilcheva, Florida International University

LIGHTNING TALKS:

Down the Rabbit Hole: How Free Web Searching Can Sap Preparedness Motivation

Erik Nilsen, Lewis & Clark College

Bryan Sebok, Lewis & Clark College

Elizabeth Safran, Lewis & Clark College

Peter Drake, Lewis & Clark College

How Does Hazard Information Affect Risk Perceptions During a Rare Tornado Event?

Hao Zhang, University of North Texas

Barend Stander, University of North Texas

Chih-Chun Lin, Jacksonville State University

H. Tristan Wu, University of North Texas

Haley Murphy, Oklahoma State University

Shih-Kai Huang, Jacksonville State University



A Decision Support Framework to Integrate Household-Level Risk Perception on **Multiple Hazards**

H. M. Imran Kays, University of Oklahoma

Arif Mohaimin Sadri, University of Oklahoma

K. K. "Muralee" Muraleetharan, University of Oklahoma

Exploring Ways Cultural Meaning-Making Ties Smokey Bear to Disaster Risk Creation

Jay Balagna, Pardee RAND Graduate School

Using Engineering Models to Compare Social Impacts of Multiple Hazards

Emily Mongold, Stanford University

Jack Baker, Stanford University

Rodrigo Costa, University of Waterloo

24-Hour Weather Prediction Technology and Evacuation Behavior: Resident Workshops in Japan

Kensuke Otsuyama, The University of Tokyo

Shinichiro Nakamura, Nagoya University

Fuko Nakai, Nagoya Institute of Technology

TRACK 3: FMFRGENCY MANAGEMENT

PREPAREDNESS—LESSONS AND BEST PRACTICES

10:15 to 11:45 a.m. MDT

Location: Centennial E

MODERATOR:

Emma Hudson-Doyle, Massey University

LIGHTNING TALKS:

Understanding Community Preparedness and Emergency Supply Kit Knowledge, Attitudes, and Practices

Amy Helene Schnall, Centers for Disease Control and Prevention

Arianna Hanchey, Centers for Disease Control and Prevention



Impact of Emergency Supply Kit Use Among Those Impacted by Hurricane Ian

Amy Helene Schnall, Centers for Disease Control and Prevention

Arianna Hanchey, Centers for Disease Control and Prevention

Alicia Frasier, RTI International

Laura DiGrande, RTI International

Centers for Medicare and Medicaid Emergency Preparedness Rule: Improving Disaster Preparation in U.S. Nursing Homes

Tihara Sommers, Tulane University

Incorporating Pets in Disaster Planning in Atlantic Canada: A Collaborative Approach

Kyle Breen, Dalhousie University

Haorui Wu, Dalhousie University

Amy Birschall, Dalhousie University

Amy Schneider, Valley Veterinary Hospital

Jessica Rock, Valley Veterinary Hospital

State Compound Hazard Planning and Emergency Manager Experience During COVID-19

Logan Gerber-Chavez, University of Delaware

Debated or Deluged: Social Media Conversation Surrounding Drought Conditions **Around FEMA Region 7**

Cory Armstrong, University of Nebraska—Lincoln

Sharon Meaker-Medcalf, University of Nebraska Medical Center

Sharon Baldinelli, University of Nebraska—Lincoln

Kelly Smith, University of Nebraska-Lincoln

What Are Our Plans Missing and What Are Our Missing Plans?

Vivien Coop, Swinomish Indian Tribal Community

Rebekah Paci-Green, Western Washington University



Exploring Vulnerability and Preparedness: Applying the Collaborative Multiracial **Post-Election Survey to Disaster Studies**

Jason Pudlo, East Carolina University William Curtis Ellis, Oral Roberts University Ernest McGowen, University of Richmond

TRACK 4. NEW APPROACHES AND MODELS IN DISASTER RESEARCH ACTION- AND EQUITY-ORIENTED APPROACHES TO DISASTER RESEARCH

10:15 to 11:45 a.m. MDT Location: Centennial F

MODERATOR.

Carson Macpherson-Krutsky, Natural Hazards Center

LIGHTNING TALKS:

Analysis of Lifestyle Recovery for Data-Driven Insights of Disaster Impacts Natalie Coleman, Texas A&M University

Ali Mostafavi, Texas A&M University

Modeling the Interaction Between Human Performance and Cascading Hazards

Pegah Farshadmanesh, University of Illinois Urbana-Champaign

Agriculture Flood Loss and Social Vulnerability in the United States

Md. Asif Rahman, University of Iowa Eric Tate, University of Iowa

Comparing Geographic Information System-Based Flood Resilience Models in a **Developing Nation**

Ahmad Mojtoba Riyadh, University of Utah Tom Cova, University of Utah Tim Collins, University of Utah

Richard Medina, University of Utah



Science-Practice Partnerships for Using Hurricane Forecasts To Enhance Florida's Critical Infrastructure Resilience

Yue Ge, University of Central Florida

Theresia Phoa, University of Central Florida

Rebecca Morss, National Center for Atmospheric Research

Closing the Gap Between Knowledge and Action: The Gamble of Seismic Risk

Louise Comfort, University of California, Berkeley

Suleyman Celik, Anadolu University

Burcak Erkan, Middle East Technical University

Sensitive Data Handling Lessons From Engagement With Rhode Island's Critical Infrastructure Sector

Austin Becker, University of Rhode Island

Isaac Ginis, University of Rhode Island

Pam Rubinoff, University of Rhode Island

Kyle McElroy, University of Rhode Island

Peter Stempel, Penn State University

Noah Hallisey, University of Rhode Island

Chris Damon, University of Rhode Island

Ethical Implications of Participatory Action Research in Community-Based **Response to Climate Change**

Haleh Mehdipour, University of Florida

Jason von Meding, University of Florida

Marjorie Prokosch, Rochester Institute of Technology

TRACK 5: RECOVERY AND RESILIENCE INITIATIVES

HOUSEHOLD AND BUSINESS RECOVERY TRAJECTORIES AND DISPARITIES

10:15 to 11:45 a.m. MDT

Location: Spruce



MODERATOR:

Santina Contreras, University of Southern California

LIGHTNING TALKS:

Experiences of Vulnerable Households in Low-Attention Disasters: Marshalltown, lowa

Payel Sen, Stony Brook University

Sara Hamideh, Stony Brook University

Progress and Pitfalls of Recovery After the Marshall Fire

Andrew Rumbach, Urban Institute

Katie Dickinson, Colorado School of Public Health

Elizabeth Albright, Duke University

Deserai Crow, University of Colorado Denver

Patterns of Access and the Role of Financial Resources in Housing Recovery

Sara Hamideh, Stony Brook University

Asha Venugopalan, Stony Brook University

Elaina Sutley, University of Kansas

Maria Dillard, National Institute of Standards and Technology

Opportunities for Implementation of Disaster Risk Management Strategies Among **Public Housing Authorities**

Amber Khan, University of Washington

Andrew Aurand, National Low Income Housing Coalition

Sara Hamideh, Stony Brook University

Jamie Vickery, University of Washington

Rebecca Walter, University of Washington

Nicole Errett, University of Washington

Planning for Post-Disaster Public Housing Recovery: Communities With Near **Experiences of Disasters**

Sayma Khajehei, The University of Utah

Divya Chandrasekhar, The University of Utah



The Role of Tourism in Disaster Recovery: Tacloban's Recovery From Typhoon Haiyan

Celina Mohni, University of Waterloo

Business Recovery in Lumberton, North Carolina: The Impact of Consecutive **Disasters**

Maria Gomez Saldarriaga, East Carolina University

Jennifer Helgeson, National Institute of Standards and Technology

Elaina Sutley, University of Kansas

Maria Dillard, National Institute of Standards and Technology

Bradley Ewing, Texas Tech University

Jamie Kruse, East Carolina University

Maria Watson, University of Florida

LUNCH

11:45 a.m. to 1:15 p.m. MDT - Outdoor Pavilion



TRACK 1: TRAINING AND NETWORKING SHARED-USE FACILITIES AND RESEARCH NETWORKS

1:15 to 2:45 p.m. MDT Location: Interlocken C

Please join this session to learn more about National Science Foundation (NSF)-funded shared-use facilities through the Natural Hazards Engineering Research Infrastructure (NHERI) and research networks for extreme events reconnaissance and research. Participants will find out how to draw on the NHERI Science Plan in proposals, get involved in research coordination networks, access free training resources for ethical reconnaissance, and use research equipment and cyberinfrastructure for secure data management and publication.

MODERATOR:

Jacqueline Meszaros, National Science Foundation

SPEAKERS:

Rachel Adams, Natural Hazards Center Tim Cockerill, University of Texas at Austin Daniel Cox, Oregon State University Nicole Errett, University of Washington Jennifer Horney, University of Delaware Lori Peek, Natural Hazards Center

TRACK 2: RISK AND RESILIENCE IN A CHANGING CLIMATE CONVERGENT APPROACHES TO CLIMATE RESILIENCE

1:15 to 2:45 p.m. MDT Location: Interlocken D

MODERATOR:

Alyssa Provencio, University of Central Oklahoma



LIGHTNING TALKS:

Building Community Capacity to Respond to Urban Extreme Heat in Knoxville, **Tennessee**

Jennifer First, University of Tennessee, Knoxville

Sangwon Lee, University of Tennessee, Knoxville

Emily Norris, University of Tennessee, Knoxville

Kristina Kintziger, University of Nebraska Medical Center

Kelsey Ellis, University of Tennessee, Knoxville

Land Use-Based Adaptation Against Emerging Wildfires

Tasnim Tarannum Isaba, University of Utah

Divya Chandrasekhar, University of Utah

Donovan Finn, Stony Brook University

Santina Contreras, University of Southern California

A Collaborative Framework for Complex Systems Analysis: Lessons From Uganda

Erica Gralla, The George Washington University

Jarrod Goentzel, Massachusetts Institute of Technology

Hierarchies of Affectedness After Disasters

Kate Brady, University of Melbourne

Lisa Gibbs, University of Melbourne

Louise Harms, University of Melbourne

Chicory: Roots, Resistance, and Resilience

Jennifer Lawrence, University of Virginia

Resilience, Climate Adaptation, Sustainability, and Social Equity as Convergent **Community Planning Goals**

Emily H. Walpole, National Institute of Standards and Technology

Jennifer Helgeson, National Institute of Standards and Technology

Christopher Clavin, National Institute of Standards and Technology

Matthew Malecha, Texas A&M University



TRACK 3: EMERGENCY MANAGEMENT

LEARNING FROM EVACUATION AND RESPONSE EXPERIENCES

1:15 to 2:45 p.m. MDT Location: Centennial E

MODERATOR:

Jennifer Trivedi, University of Delaware

LIGHTNING TALKS:

Examining Evacuation Decisions of People Experiencing Homelessness During Natural Disasters

Andrea Ramos, Florida Atlantic University

Household Responses to 2018 Mati Wildfire: Evacuation Logistics and Preparation **Time Estimations**

Mohammad Rayeedul Kalam Siam, Oregon State University

Brian M. Staes, Oregon State University

Michael K. Lindell, Oregon State University

Haizhong Wang, Oregon State University

Examining the Challenges of Evacuation to Special Needs Shelters During Hurricane Irma

Rebecca Entress, University of Central Florida

Ratna Okhai, University of Central Florida

Claire Knox, University of Central Florida

A Closer Look Into Hurricane Evacuation Decision-Making Among Emergency Managers in Florida

Sara Iman, University of Central Florida

Yue Ge, University of Central Florida

Daniel Klenow, North Dakota State University

Amanda Savitt, Argonne National Laboratory

Pamela Murray-Tuite, Clemson University



Environment, Society, and Technology: Learning From Earthquake Early Warning

Elizabeth Reddy, Colorado School of Mines

Invisible Benefits of Earthquake Early Warning for Water Utilities

Yolanda Lin, University of New Mexico Sara McBride, U.S. Geological Survey Madison Cox, University of New Mexico

Predicting Spatial and Temporal Route-Section Choices During Large-Scale **Disaster Evacuations**

Xiangvu "Dale" Li. Oklahoma State University Huaxia Wang, Oklahoma State University Jikui Zhao, Oklahoma State University

TRACK 4: NEW APPROACHES AND MODELS IN DISASTER RESEARCH ADVANCEMENTS IN MODELING PHYSICAL IMPACTS OF DISASTER

1:15 to 2:45 p.m. MDT Location: Centennial F

MODERATOR:

Victor Wang, Chapman University

LIGHTNING TALKS.

Planning for Future Disasters: An Interdisciplinary Modeling Approach to Project **Hurricane-Induced Debris**

Mitchell Meads, Texas A&M University at Galveston

Catalina Gonzalez-Dueñas, University College London

Benjamin Pachev, University of Texas at Austin

Kooshan Amini, Rice University

Wesley Highfield, Texas A&M University at Galveston

Jamie Padgett, Rice University



Application and Comparison of Imaging Techniques for Data-Driven Disaster **Debris Quantification**

Jasmine Bekkaye, Louisiana State University Navid Jafari, Louisiana State University

Image Feature Classifier for School Infrastructure in Large-Scale Earthquake **Vulnerability Analysis**

Jikun Liu, Texas A&M University Tarea Karunaratne, New York University Cayden Chen, New York University Eva Yao, New York University

Quantifying Tornado Impacts on U.S. Critical Facilities

Nico de Toledo, National Institute of Standards and Technology Marc Levitan, National Institute of Standards and Technology Jamil Malik, National Institute of Standards and Technology Warren Stewart, National Institute of Standards and Technology Katherine J. Johnson, National Institute of Standards and Technology P. Shane Crawford, Federal Emergency Management Agency Dominique Paige, National Institute of Standards and Technology

Geometric Parameterization of Sedimentary Basins for Site Response Analysis and Modeling

Chukwuebuka Nweke, University of Southern California Rashid Shams, University of Southern California Grace Parker, U.S. Geological Survey

Critical Infrastructure Resilience During Hurricanes Harvey and Irma Using **Inoperability Model**

Shahnawaz Rafi, Florida International University Joost R. Santos, The George Washington University Pallab Mozumder, Florida International University



TRACK 5: RECOVERY AND RESILIENCE INITIATIVES

LESSONS FOR EQUITABLE RESOURCE DISTRIBUTION AND RESILIENCE

1:15 to 2:45 p.m. MDT

Location: Spruce

MODERATOR.

Rodrigo Costa, University of Waterloo

LIGHTNING TALKS:

Florida's Failing Property Insurance Market: Actuarial Soundness, Policyholder Affordability, and Legal Handwringing

Maria Ilcheva, Florida International University

Howard Frank, Florida International University

Valuing Community-Based Resilience: Modeling Choices in Estimating Willingness to Pay

Wesley Wehde, Texas Tech University

Promoting Resilience Among Asian American-Owned Small Businesses in New York City

Sua Kim, University of Utah

Divya Chandrasekhar, University of Utah

Knowledge and Barriers to Community Resources Post-Disaster to Build Canadians' Entrepreneurial Resilience

Haorui Wu, Dalhousie University

Kyle Breen, Dalhousie University

Meghann Coleman, MindFrame Connect

Erin Wynn, MindFrame Connect

Luke DeCoste, MindFrame Connect



Disruptions From Wildfire Smoke: Vulnerabilities in Local Economies and Disadvantaged Communities

Jason Vargo, Federal Reserve Bank of San Francisco Brooke Lappe, Emory University

Disaster Impacts on Urban-Rural Connectivity for Collective ResilienceNamita Poudel Bhurtel, Keio University



TRACK 1: TRAINING AND NETWORKING COASTLINES AND PEOPLE HUBS AND RECENT CAREER AWARDS

3:15 to 4:45 p.m. MDT Location: Interlocken C

Please join this session to learn more about the National Science Foundation-funded hubs supported by the Coastlines and People (CoPe) program and hear from recent Faculty Early Career Development (CAREER) award recipients. Panelists will share updates regarding the activities of the multi-institutional coastal research hubs and how they are developing new knowledge about interactions among natural, built, and social systems in coastal areas. CAREER awardees will provide advice to prospective applicants and updates on their projects, which address pressing disaster resilience questions with innovative and equity-driven approaches.



MODERATOR:

Walter Peacock, Texas A&M University

PRESENTATIONS:

Evaluating Accessibility After a Cascadia Subduction Zone Earthquake and **Tsunami**

Dan Cox, Oregon State University Amina Meselhe, Oregon State University

Dylan Sanderson, Oregon State University

Jenna Tilt, Oregon State University

Characterizing Tradeoffs of Coastal Adaptation Strategies Using Value-Informed **Objectives**

Laura Geronimo, Rutgers University

CAREER: Multiscale Probabilistic Characterization of Seismic Site Response in **Highly Uncertain Environments**

Ashly Cabas, North Carolina State University

CAREER: Affordable Versus Vacation Housing Resilience: Mechanisms that Shape Housing Vulnerability and Recovery in Coastal Communities

Sara Hamideh, Stony Brook University

CAREER: Estimating and Addressing Disaster Survivors' Unmet Needs: A Social **Vulnerability and Social Infrastructure Approach**

Michelle Annette Meyer, Texas A&M University

TRACK 2: RISK AND RESILIENCE IN A CHANGING CLIMATE FCONOMIC AND SOCIAL PERSPECTIVES ON RESILIENCE

3:15 to 4:45 p.m. MDT

Location: Interlocken D



MODERATOR:

Christina Gore, National Institute of Standards and Technology

PRESENTATIONS:

Natural Disasters and Mortgage Risk in the Federal Housing Administration

Michael Craig, U.S. Department of Housing and Urban Development Adam Hoffberg, U.S. Department of Housing and Urban Development

Exploring Household-Level Economic Decision-Making and Disaster Mitigation **Behaviors**

Dontá Council. Federal Reserve Bank of Atlanta Leah Cabrera, Georgia Tech Research Institute

Assessing Social Vulnerability to Landslides in Puerto Rico

Jocelyn West, Natural Hazards Center Luis Alexis Rodríguez-Cruz, U.S. Department of Agriculture Stephen Hughes, University of Puerto Rico at Mayagüez

Seismic Building Code Implementation in Nepal: Masons Struggle for Respect and Pay

Rebekah Paci-Green, Western Washington University Nisha Shrestha, National Society for Earthquake Technology Surya Shrestha, National Society for Earthquake Technology Suman Pradan, National Society for Earthquake Technology

TRACK 3: EMERGENCY MANAGEMENT **EQUITABLE EMERGENCY COMMUNICATION**

3:15 to 4:45 p.m. MDT Location: Centennial E

MODERATOR.

Kaila Witkowski, Florida Atlantic University



PRESENTATIONS:

Leveraging Social Media Data for Enhancing Wildfire Situational Awareness

Zihui Ma, University of Maryland

Lingvao Li, University of Michigan

Yubai Yuan, Pennsylvania State University

Gregory Baecher, University of Maryland

Behavioral Responses to the Southwest Puerto Rico Earthquake Sequence: Information Seeking and Decision-Making

Jenniffer Santos-Hernández, University of Puerto Rico Río Piedras

Sara McBride, U.S. Geological Survey

Nnenia Campbell, Natural Hazards Center

Lorna Jaramillo Nieves, University of Puerto Rico Río Piedras

Socially Equitable Access to Crisis Information Provided by Local Offices of **Emergency Management**

Brittany Haupt, Virginia Commonwealth University

Jason Rivera, City University of New York

Claire Knox, University of Central Florida

Using Communication Best Practices to Develop Cascadia Earthquake **Preparedness Workshops for Spanish Speakers**

Carson MacPherson-Krutsky, Boise State University

Brittany Brand, Boise State University

Michael K. Lindell, Boise State University

Communication Through Geohazard Situational Awareness Bulletins: Lessons Learned

Dave Gauthier, BGC Engineering

Carie-Ann Lau, BGC Engineering

Kris Holm, BGC Engineering

Hazel Wong, BGC Engineering

Patrick Grover, BGC Engineering



Wireless Emergency Alerts and Organizational Response: Instructing and Adjusting Information in Alerts

Lauren B. Cain, State University of New York at Albany Michele K. Olson, State University of New York at Albany Nicholas Waugh, State University of New York at Albany Jeannette Sutton, State University of New York at Albany

TRACK 4: NEW APPROACHES AND MODELS IN DISASTER RESEARCH INNOVATIONS IN DISASTER RISK AND IMPACTS ASSESSMENT

3:15 to 4:45 p.m. MDT Location: Centennial F

MODERATOR:

Louise Comfort, University of California, Berkeley

PRESENTATIONS:

Assessment of Wind Environment for Pedestrian Safety

Sungsu Lee, Chungbuk National University

Risk Mapping of Interdependent Social and Physical Infrastructure Networks for Multi-Hazard Events

Khondhaker Al Momin, University of Oklahoma Arif Mohaimin Sadri, University of Oklahoma Kristin Olofsson, Oklahoma State University David Reed, University of Science and Arts of Oklahoma

Asymmetric Urbanized River Basins: Tempo-Spatial Analysis of Transformed Land Use and Population

Takumi Yamada, The University of Tokyo Kensuke Otsuyama, The University of Tokyo U Hiroi, The University of Tokyo



Measuring Post-Disaster Accessibility to Essential Services: Availability, Adequacy,

Acceptability, and Proximity Dimensions

S. Amin Enderami, University of Kansas

Elaina Sutley, University of Kansas

Jennifer Helgeson, National Institute of Standards and Technology

John van de Lindt, Colorado State University

Leonardo Dueñas-Osorio, Rice University

Maria Watson, University of Florida

Multi-Hazard Risk Assessment in Small Island Developing States: Case Study of Fiji's Disaster Management System

Ratu Tevita Rarokolutu, University of the South Pacific

Rahul Ravneel Prasad, University of the South Pacific

Predicting the Spatial Distribution of Damage to Built Environments in Wildfire **Events**

Hussam Mahmoud, Colorado State University

Akshat Chulahwat, Colorado State University

TRACK 5: RECOVERY AND RESILIENCE INITIATIVES

ASSESSING EQUITY IN MITIGATION AND RECOVERY ASSISTANCE

3:15 to 4:45 p.m. MDT

Location: Spruce

MODERATOR:

Kristopher Young, University of Utah

PRESENTATIONS:

Challenges and Impacts of Buyout Programs in Eastern North Carolina

Kayode Adeniji, East Carolina University

Anuradha Mukherji, East Carolina University

Scott Curtis, The Citadel



Jamie Kruse, East Carolina University Jennifer Helgeson, National Institute of Standards and Technology Ausmita Ghosh, East Carolina University Meghan Millea, East Carolina University

Was Federal Emergency Management Agency Assistance Equitable After the 2015 Dam Failures in Columbia, South Carolina?

Ciara Horne. The Bill Anderson Fund

Opportunities and Challenges of Equitable Flood Mitigation Investment in Charleston, South Carolina

Farinaz Motlagh, Stony Brook University Sara Hamideh, Stony Brook University

A Systematic Approach to Identifying and Analyzing Federal (Disaster) **Funding Programs**

Maria Watson, University of Florida Farinaz Motlagh, Stony Brook University

Post-Hurricane Recovery and Relocation of Local Businesses in Puerto Rico

Divya Chandrasekhar, University of Utah

N. Emel Ganapati, Florida International University

Ivis García, Texas A&M University

Robert Olshanksy, University of Illinois Urbana-Champaign

Mark Padilla, Florida International University

Tasnim Isaba, University of Utah

BRFAK
DULAI
4:45 to 5:00 p.m. MDT



CLOSING DISCUSSION AND AGENDA SETTING

5:00 to 5:30 p.m. MDT

Location: Centennial Ballroom

Please join us for this closing session of the 2023 Researchers Meeting. The chair and co-chair of this year's meeting will offer a summary of key contributions, share opportunities for publishing research papers, and gather ideas for the next Researchers Meeting, which is scheduled for July 17 to 18, 2024, in Broomfield, Colorado.

SPFAKERS:

Sara Hamideh, Stony Brook University

Chair, Researchers Meeting Organizing Committee

Sabine Loos, University of Michigan

Co-Chair, Researchers Meeting Organizing Committee





RESEARCHERS MEETING ABSTRACTS

You can access all Researchers Meeting abstracts by scanning the QR code below or by visiting the Natural Hazards Center website at: https://dx.colorado.edu/workshop/2023/abstract/index/researchers-meeting.

If you have questions regarding any of the work presented at this year's Researchers Meeting, you can find the email addresses for all registered participants at the end of this program.





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For more information or to join, please visit:

isa-sociology.org/en/research-networks/research-committees/rc39-sociologyof-disasters.



HAZARDS AND DISASTER JOURNALS

The Natural Hazards Center has compiled the following list of hazards and disaster, risk, and climate focused journals, including the title, link to the journal, and five-year impact factor.* The most up to date list and links to journal websites can be accessed online at: hazards.colorado.edu/resources/hazards-and-disaster-journals.

JOURNAL NAME	Five-Year Impact Factor
American Journal of Disaster Medicine	n/a
Asian Journal of Environment and Disaster Management	n/a
Australasian Journal of Disaster and Trauma Studies	n/a
Australian Journal of Emergency Management	n/a
Climatic Change	4.743
Climate and Development	4.28
Climate Risk Management	4.09
Critical Disaster Studies	n/a
Disaster Medicine and Public Health Preparedness	1.385
Disaster Prevention and Management: An International Journal	1.521
Disasters	2.641
Earthquake Spectra	3.03
Ecology and Society	4.403
Economics of Disasters and Climate Change	n/a
Emergency Medicine Journal	2.794
Environment and Behavior	6.222
Environmental Hazards	1.827
Environmental Management	3.266
Environmental Sociology	.78
European Journal of Emergency Medicine	2.799
GeoHazards	n/a
Geomatics, Natural Hazards and Risk	3.528
Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards	3.868
Global Environmental Change: Human and Policy Dimensions	9.523
Health in Emergencies & Disasters	n/a
Human and Ecological Risk Assessment: An International Journal	5.19



JOURNAL NAME	Five-Year Impact Factor
International Journal of Business Continuity and Risk Management	n/a
International Journal of Climate Change Strategies and Management	2.645
International Journal of Crisis Communication	n/a
International Journal of Disaster Resilience in the Built Environment	.18
International Journal of Disaster Response and Emergency Management	n/a
International Journal of Disaster Risk Reduction	4.32
International Journal of Disaster Risk Science	3.727
International Journal of Earthquake and Impact Engineering	n/a
International Journal of Earthquake Engineering and Hazard Mitigation	n/a
International Journal of Emergency Management	.13
International Journal of Emergency Services	.6
International Journal of Mass Emergencies and Disasters	n/a
International Journal of Natural Disasters & Health Security	n/a
International Journal of Wildland Fire	3.2
Jamba: Journal of Disaster Risk Studies	.82
Journal of Business Continuity & Emergency Planning	n/a
Journal of Climate	5.148
Journal of Climate Change and Health	n/a
Journal of Contingencies and Crisis Management	4.391
Journal of Critical Incident Analysis	n/a
Journal of Disaster Research	.24
Journal of Disaster Studies	n/a
Journal of Emergency Management	n/a
Journal of Environmental Management	6.789
Journal of Extreme Events	n/a
Journal of Flood Risk Management	3.884
Journal of Geography & Natural Disasters	n/a
Journal of Homeland Security and Emergency Management	1.258
Journal of Integrated Disaster Risk Management	n/a
Journal of International Crisis and Risk Communication Research	n/a
Journal of Natural Disaster Science	n/a
Journal of Risk Research	2.583
Journal of Seismology and Earthquake Engineering	n/a
Journal of Traumatic Stress	3.476
Journal of Volcanology and Geothermal Research	2.789
Landslides	6.578
Natural Hazards	3.102
Natural Hazards and Earth System Sciences	4.345
Natural Hazards Research	n/a
Natural Hazards Review	3.169
Nature Climate Change	25.29



JOURNAL NAME	Five-Year Impact Factor
npj Natural Hazards	n/a
Population and Environment	3.537
Pracademic Affairs	n/a
Prehospital and Disaster Medicine	2.04
Progress in Disaster Science	n/a
Psychological Trauma: Theory, Research, Practice, and Policy	3.226
Risk Analysis	4
Risk, Hazards, & Crisis in Public Policy	.86
Science of Tsunami Hazards	n/a
Seismica	n/a
Traumatology	n/a
Weather	1.596
Weather, Climate, and Society	2.746

^{*}Impact factors measure the average number of yearly citations of articles published in each journal. This score is used to determine the relative importance of a journal within its field, with higher scores indicating a stronger impact. Impact factors were found using Journal Citation Reports. Journals with a n/a did not have an impact factor listed. This list was last updated on March 7, 2023. Updates or suggested journal additions should be sent to: hazctr@colorado.edu.



S Sage



International Journal of Mass Emergencies & Disasters

eISSN: 27535703 | ISSN: 02807270



Created in 1983 by the International Sociological Association's Research Committee on the Sociology of Disasters (ISA RC39), the International Journal of Mass Emergencies and Disasters has the distinction of being one of the oldest and most respected disaster science journals of the world, focused on the social and behavioural aspects of relatively sudden collective stress events be they natural, technological or human induced, typically referred to as disasters or mass emergencies. Since its transition to SAGE Publishing in 2023 it is being relaunched with revisions to the 'Aims and Scope' and an expansion of the Editorial Board members, reflecting the changing definitions of hazards and disasters during these current times and the growing interdisciplinarity of this field.

Journal URL:

https://us.sagepub.com/en-us/nam/international-journal-of-mass-emergencies-disasters/journal203777 http://journals.sagepub.com/home/med

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GLOBAL HAZARDS AND DISASTER RESEARCH CENTERS LIST AND MAP

In an effort to increase collaboration and access to emerging research, the Natural Hazards Center has compiled information on more than 375 academic hazards and disaster research centers, institutes, and laboratories around the world. This resource includes a comprehensive list of centers, organized by geographic regions, doing work on a wide range of disciplinary and interdisciplinary research in the hazards and disaster field.



The interactive web map and associated published data are available at: hazards.colorado.edu/resources/research-centers.

For further information, please see: Hines, Emmanuelle, Mason Mathews, and Lori Peek. 2020. "Global List and Interactive Web Map of University-Based Hazards and Disaster Research Centers." *Natural Hazards Review* 21(2), doi.org/10.1061/(ASCE)NH.1527-6996.0000371.

If you have questions about this project or would like to add your academic research center to the website, please contact Lori Peek at lori.peek@colorado.edu.



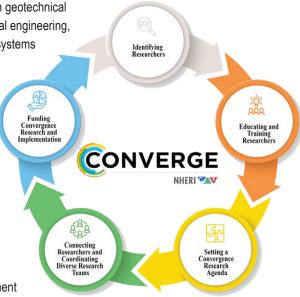
CONVERGE

The National Science Foundation-supported CONVERGE facility was established in 2018 as the first social science-led component of the Natural Hazards Engineering Research Infrastructure (NHERI) for the nation. CONVERGE, which is headquartered at the Natural Hazards Center, brings together networks of hazards and disaster researchers across disciplinary boundaries to advance research that is problem-focused and solutions-based.

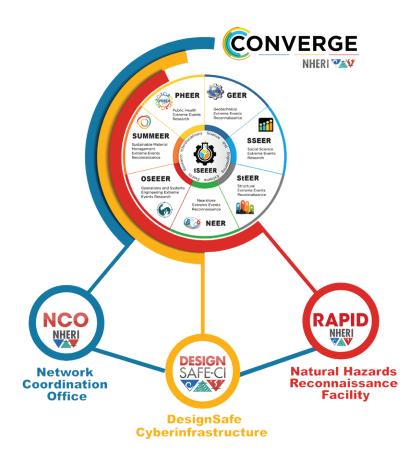
CONVERGE supports research that is conceptually integrative by: (a) identifying researchers; (b) educating and training researchers; (c) setting a community-driven convergence research agenda; (d) connecting researchers and coordinating functionally and demographically diverse research teams; and (e) supporting and funding convergence research, data collection, data sharing, and solutions implementation.

CONVERGE serves as the leadership hub for eight Extreme Events Reconnaissance and

Research (EER) networks focused on geotechnical engineering, social sciences, structural engineering, nearshore research, operations and systems engineering, sustainable materials management, public health, and interdisciplinary research. This EER ecosystem connects and coordinates disciplinary communities and encourages interdisciplinary data collection and information sharing. The EERs also partner with other NHERI facilities such as DesignSafe, RAPID, and the Network Coordinating Office to access reconnaissance tools and cyberinfrastructure for data management and integration.







CONVERGE also offers free online resources including a series of research check sheets that help prepare students and others new to the field to conduct hazards and disaster research. CONVERGE has developed 11 interactive training modules as well. These webbased trainings cover a range of foundational and advanced topics in hazards and disaster research. The modules take an all-hazards approach and draw on case examples from natural hazards, technological disasters, public health emergencies, and willful humancaused disasters. Each module takes between 30 and 60 minutes to complete. At the end

of the module, users can take a 10-question quiz worth one contact hour of emergency management training through a partnership with the International Association of Emergency Managers (IAEM) certification program.

More information on CONVERGE is available at: **converge.colorado.edu**.





SUBSCRIPTION INFORMATION

Scan the QR codes below to subscribe to Natural Hazards Center and CONVERGE publications, activities, and updates.



Natural Hazards Center



CONVERGE

RESEARCHERS MEETING SURVEY



We hope you will share your feedback so we can continue to improve the Researchers Meeting!

Please follow this link or scan the QR code to complete a short survey:

hazards.colorado.edu/workshop/2023/researchersmeeting-survey.



49TH ANNUAL NATURAL HAZARDS WORKSHOP

Sunday, July 14 to Wednesday, July 17, 2024

RESEARCHERS MEETING

Wednesday, July 17 to Thursday, July 18, 2024

PRACTITIONERS MEETING

Thursday, July 18, 2024

OMNI INTERLOCKEN HOTEL || BROOMFIELD, COLORADO

50TH ANNUAL NATURAL HAZARDS WORKSHOP

Sunday, July 13 to Wednesday, July 16, 2025

RESEARCHERS MEETING

Wednesday, July 16 to Thursday, July 17, 2025

PRACTITIONERS MEETING

Thursday, July 17, 2025

OMNI INTERLOCKEN HOTEL || BROOMFIELD, COLORADO



ACKNOWLEDGMENTS

The Natural Hazards Center and CONVERGE teams and the leadership of the International Sociological Association Research Committee on Disasters (ISA-RC39) are pleased to convene the 2023 Researchers Meeting. We are especially grateful to be back in person again this year, and we thank all those who are attending this year's meeting.

SPECIAL THANKS

The Natural Hazards Center, CONVERGE, and the ISA-RC39 wish to offer special thanks to the following people and organizations.

- Sara Hamideh and Sabine Loos who served as chair and co-chair, respectively, of this year's Researchers Meeting. They have worked together in this capacity—always with great exuberance, intellect, and passion—since 2020. They have taken the meeting in exciting new directions, and the entire research community has benefited from their leadership.
- We are grateful for all of the other members of the Researchers Meeting Organizing Committee. Rodrigo Costa and Alyssa Provencio served as lead session organizers this year. We also gratefully acknowledge the service of Kyle Breen, Paula Bürgi, Dontá Council, Oronde Drakes, Alexis Merdjanoff, Robert Soden, Alyssa Stansfield, Jennifer Trivedi, Chandler Wilkins, and Kristopher Young. The dedicated members of the organizing committee read, evaluated, and edited the abstracts and helped to assemble an intellectually engaging final program.
- We thank the student volunteers, who committed their time and talent to ensure the success of both the Natural Hazards Workshop and Researchers Meeting.
- Bill Lovekamp, past ISA-RC39 president, has long supported this meeting. We are grateful for his guidance and thank him for his leadership and longstanding service.
- Finally, we thank the program directors from the National Science Foundation who support science, engineering, and interdisciplinary research efforts in hazards and disasters. We are so grateful that they recognize the value in bringing together researchers to share our recent findings and to push the field forward.



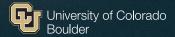
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2023 RESEARCHERS MEETING





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