# NHERI GSC November General Meeting

2024



# **Agenda**

11:00-11:10 Welcome & Announcements

11:10-11:45 Dr. JoAnn Browning

**11:45-11:55** Questions

**11:58-12:00** Wrap up

**12:00-12:30** RSR Meetings



# CALL FOR ABSTRACTS

# **EMI 2025**

MECHANICS FOR A SUSTAINABLE FUTURE

May 27-30
University of California, Irvine | Anaheim, CA USA

### **TOPICS INCLUDE**

- Probabilistic Mechanics
- Mechanics of Materials
- Fluid Mechanics
- Computational Mechanics
- Data-driven Methods
- Structural Health Monitoring
- Multiscale and Multiphysics

- Geomechanics and Geomaterials
- Biomechanics and Bio-inspired Engineering
- Damage and Fracture Mechanics
- Material Science
- Sustainability and Resilience of Civil Infrastructure

Submit Abstracts by December 1st

# Submit your abstract!





# STUDENT COMPETITIONS

May 27-30, Anaheim, CA

- Computational Mechanics
- Dynamics
- Elasticity
- Fluid Dynamics
- Granular Materials
- Machine Learning in Mechanics
- Objective Resilience

- Modeling Inelasticity and Multiscale Behavior
- Poromechanics
- Probabilisitic Methods
- Properties of Materials
- Structural Health
   Monitoring and Control
- Structural Stability

www.emi-conference.org

# tor Submissions

# Check out the website!









# Conference Opportunities!

Conference	Dates	Abstract
AAG: 2025 American Association of		
Geographers	March 24-25, <b>2025</b>	Closed
EMI: ASCE Engineering Mechanics Institute	May 27-30, <b>2025</b>	December 1, <b>2024</b>
<b>IWSHM</b> : International Workshop on Structural		
Health Monitoring	February 1, <b>2025</b>	
YCSEC: Young Coastal Scientist and Engineers		December 20,
Conference	April 3-4, <b>2025</b>	2024
ACWE: 15th Americas Conference for Wind		
Engineering	May 19-25, <b>2025</b>	Closed
		Open, Paper
ANNSIM: Annual Modeling & Simulation		deadline Jan. 19,
Conference	May 26th-29th, <b>2025</b>	2025
Geotechnical Frontiers Conference	March 2-5, <b>2025</b>	Closed
Natural Hazards Workshop	July 13-16, <b>2025</b>	Unknown



# **Conference Opportunities!**

Conference	Dates	Abstract
AGU24: American Geophysical Union	December 9-13, <b>2024</b>	Closed
Forensic Engineering Congress	November 4, <b>2024</b>	Closed
Society of Risk Analysis Conference	December 8-12, <b>2024</b>	Closed
IMAC	February 10-13, <b>2025</b>	Closed
American Sociological Association Virtual	January 30-31, <b>2025</b>	Closed
Association for Public policy Analysis &	November 21st- 23rd,	
Management	2024	Closed
NHERI Computational Symposium	February 5-7, <b>2025</b>	Closed

Abstracts are closed but registration is open.



# NHERI GSC Research Subcommittee Meetings!

### **Group Breakout Rooms!**

# Breakout Rooms (30 Minutes):

- 1. Social Science Subcommittee (Erin Boyle):
- Discuss volunteering at the 50th Annual Natural Hazards Workshop
- **2. Simulation & Computational Methods Subcommittee** (Bijan Sayyafzadeh and Pooria Mazaheri):
- Introduce RSR activities (10 mins)
- Presentation by Pooria Mazaheri on research and Q&A: (10 min)
  - Title: "Risk Assessment for Transmission Lines Under Wind Extremes"
- Discuss the next activities for the RSRs and getting familiar with the members

### Presented by:

### Pooria Mazaheri

Chair of Research

### **Erin Boyle**

**RSR of Social Science** 

### Bijan Sayyafzadeh

RSR of Simulation & Computational Methods





NATALIE COLEMAN
US Army Corps of
Engineers

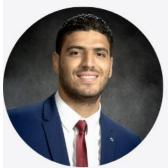


Friday, 12:00 pm CT

### Registration!



REZA FILIZADEH
Simpson Gumpertz
& Heger



**KARIM MOSTAFA**Wiss, Janney, Elstner
Associates, Inc.



Cummins Cederberg

# NHERI GSC WORKSHOP: CAREER IN INDUSTRY OR GOVERMENT SECTOR

Register today:

https://bit.ly/2024NHERIGSC\_IndustryPanel



# **NSF NHERI Summer Institute**

GSC members who attend 2 meetings between August 1, 2024-February 23, 2024, are eligible to apply for funding to apply for the Institute.

### **Info Sessions**

Learn more about the NSF
NHERI Summer Institute @
5:00 pm Central Time
<a href="mailto:bit.ly/2025NHERI\_SummerInstitute">bit.ly/2025NHERI\_SummerInstitute\_InfoSessions</a>

- December 5, 2024
- January 28, 2024

### **Apply**





# **Speaker Introduction**



**Dr. JoAnn Browning** 

Interim Vice President for Research

Office of Research

The University of Texas at San Antonio

joann.browning@utsa.edu





# NHERI History, Structure, and Resources

NHERI GSC

November 15, 2024

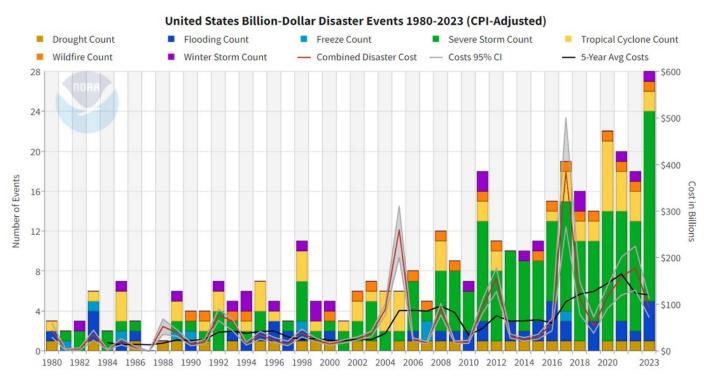
JoAnn Browning, VPR UTSA

NHERI-Network Coordination Office (NCO)

CMMI-2129782



# Why NHERI



www.climate.gov: NOAA NCEI



# Why NHERI

### Hypothetical 7.2 magnitude earthquake on Hayward fault near San Francisco:

### **Relative Well-Being Losses**

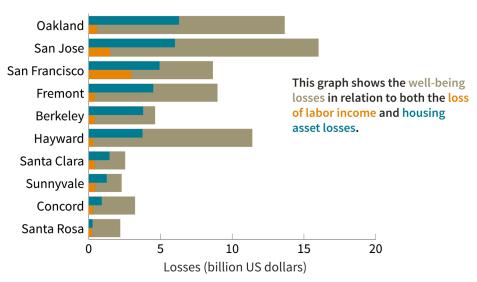


Chart B. This chart shows how, in every city, the losses of well-being during the recovery period after a hypothetical earthquake greatly exceed actual property damages. This difference is most pronounced in cities with large populations of low-income people, who have less aavings, insurance and other resources to cushion the loss. The new Stanford study enables policymakers to understand and plan for these previously unaccounted human costs of earthquake recovery. Credit: Farrin Abbott

# Large Testing Facilities

George E. Brown, Jr.

**Network for Earthquake Engineering Simulation (NEES)** 

2004 - 2014

NSF Network for Earthquake Engineering Simulation (NEES) 2004 – to date

Transform our ability to carry out research vital to reducing vulnerability to catastrophic earthquakes



...next generation....



# What is NHERI?



<u>Mission of NHERI</u>: to enable research and educational advances that can contribute knowledge and innovation to improve the resilience of the civil infrastructure against earthquakes, tsunamis, windstorms and storm surge.





# ...next generation....

### **PURDUE UNIVERSITY**

Network Coordination Office NSF Award #2129782



SimCenter

Computational Modeling and Simulation NSF Award #2131111

### UNIVERSITY OF WASHINGTON

Natural Hazard Reconnaissance (RAPID) Facility NSF Award #2130997

UNIVERSITY OF COLORADO BOULDER

Social Science/Interdisciplinary Resources

### UNIVERSITY OF TEXAS, AUSTIN

DesignSafe Community Cyberinfrastructure NSF Award #2022469

### OREGON STATE UNIVERSITY

Large Wave Flume and Directional Wave Basin NSF Award #2037914



### LEHIGH UNIVERSITY

Large-Scale Multi-Directional Hybrid Simulation Testing NSF Award #2037771

### UNIVERSITY OF TEXAS, AUSTIN

Mobile Field Shakers NSF Award #2037900



CONVERGE

NSF Award #1841338

### UNIVERSITY OF FLORIDA

**Boundary Layer Wind Tunnel** NSF Award #2037725



### UNIVERSITY OF CALIFORNIA, DAVIS

Geotechnical Centrifuges NSF Award #2037883



### **FLORIDA** INTERNATIONAL UNIVERSITY

Wind Simulation NSF Award #2037899



### IOWA STATE UNIVERSITY

Planning for the new, shared-use National Testing Facility for Enhancing Wind Resiliency of Infrastructure in Tornado-Downburst-Gust Front Events (NEWRITE) NSF Award #2330150

**SAN DIEGO** Large High-Performance Outdoor Shake Table NSF Award #2227407

CALIFORNIA.

### FLORIDA INTERNATIONAL UNIVERSITY

Planning for the new, shared-use National Full-Scale Testing Infrastructure for Community Hardening in Extreme Wind, Surge, and Wave Events (NICHE) NSF Award #2131961

# **NHERI NCO Vision**

...To serve as a focal point and leader of a multihazards research community focused on mitigating the impact of future earthquakes and windstorms and related hazards...



Mexico Beach - Hurricane Michael 2018



NHERI Collaboration with E-Defense in Japan



# **NCO Strategic Goals**

### Leadership

- Bring communities together
- Coordinate NHERI to be more than the sum of individual contributions

### Research

- Clear and fair access to experimental facilities
- Road map for high-impact research

### **Education and Community Outreach**

- Workforce development
- Dissemination of NHERI Impact



Bolivar Island, TX, after Hurricane Ike, 2008



# NCO Leadership

### NIAC (Advisory Council) **NHERI Council (PIs) User Forum**

## Education **Communications Research Facilities Liaisons**

### **Technology Transfer** Science Plan **Operations & Technology**



Julio Ramirez (PI) Professor of Civil Engineering Purdue University Leadership Role and Expertise

 NCO Director . Chair, NCO Strategic Committee



Professor of Civil Engineering Purdue University

Leadership Role and Expertise Member, NCO Strategic Committee Leader for Geotechnical Engineering · Link to User Forum



Chervi Ann Blain Research Oceanographer Naval Research Laboratory Leadership Role and Expertise

 Member, NCO Strategic Committee Leader in Coastal Engineering Hazards Communications and Outreach Lead · Link to SimCenter and DesignSafe



Karina Vielma Assistant Professor, Engineering Education University of Texas at San Antonio

· Member, NCO Strategic Committee Engineering Education Specialist · Director of REU and SI Programs



Billy Edge (Co-PI) Professor of Practice North Carolina State University Leadership Role and Expertise

Member, NCO Strategic Committee Expert in Coastal Engineering. Inundation, Wave Dynamics, and Surge Impact Modelling Link to Oregon State (EF)



William T. Holmes Structural Engineer, Private Practice Oakland California Leadership Role and Expertise





David R. Johnson

Associate Professor of Industrial

Leadership Kole and Expertise · Member, NCO Strategic Committee · Leader in Social Sciences and Policy



Joann Browning (Co-PI) Dean of Engineering University of Texas at San Antonio Leadership Role and Expertise

 Member, NCO Strategic Committee · Leader for Education and Community Outreach



Robin Nelson Post-doctoral Fellow University of Texas at San Antonio Leadership Role and Expertise · Member, NCO Strategic Committee Education Specialist with ECO

Chair of ECO Committee



Professor of Structural Engineering University of Hawaii, Manoa

Leadership Role and Expertise · Member, NCO Strategic Committee · Expert in Tsunami Research Leader for Science Plan



Thomas L. Smith TLSmith Consulting Inc.

Leadership Role and Expertise · Member, NCO Strategic Committee Leader in Wind Engineering and Architectural Practice



Marti LaChance Purdue University Expertise

. Communications Specialist



Technology and Media Specialist Rosen Center, Purdue University Leadership Role and Expertise Publicize Research and Other Deliverables

Cyberinfrastructure Awardee

Implement SoftwareTools in Partnership with



Facility Scheduler and Operations Coordinator (FSOC) Purdue University Leadership Role and Expertise

Coordination of Day to Day Operations Oversee, Maintain, and Manage Centralized Experimental Facilities Schedule Link to UC Davis, UC San Diego, and UT Austin (EFs)

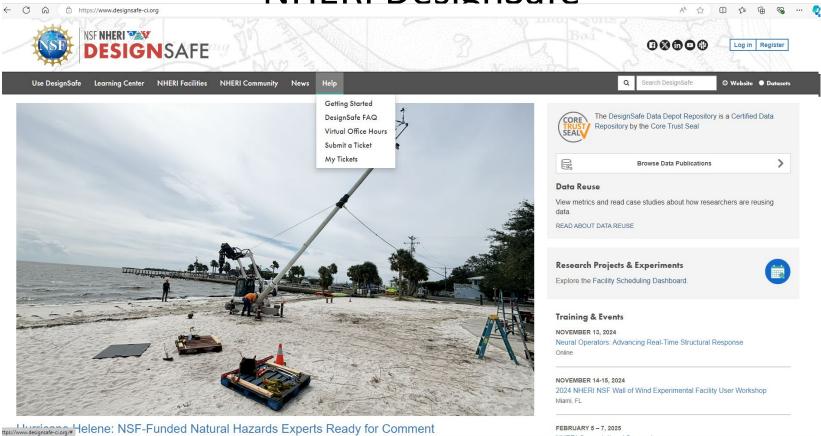


Associate Professor of Civil Engineering Texas Tech University Leadership Role and Expertise

· Member, NCO Strategic Committee Expert in Wind Hazard Research Link to Wind Experimental Facilities



# NHERI DesignSafe



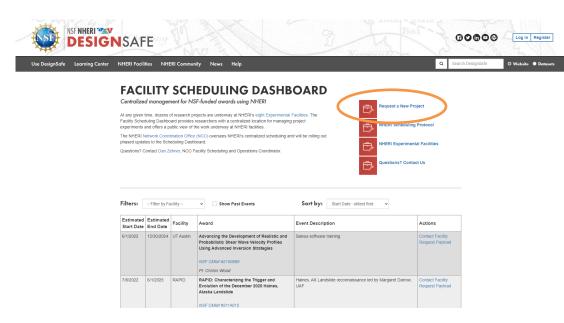
FEBRUARY 5 - 7, 2025

# NHERI Access & Funding

Access through <u>NCO Centralized</u> Facility Scheduling of user time (NSF-supported and non-NSF-supported) at each Experimental Facility, including the RAPID.

### Funding:

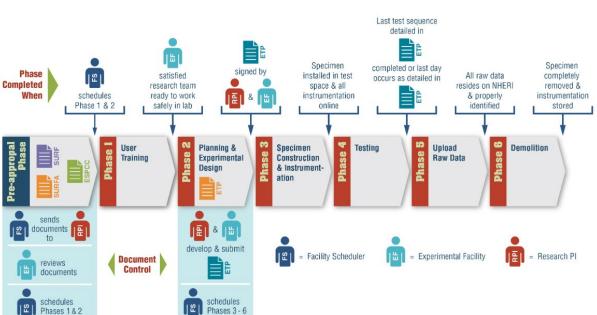
- NSF CMMI and other directorates
- Other Federal and State Agencies and Industry





# **NHERI Access & Funding**

# FACILITY PROJECT REQUEST



### NHERI

NHERI - Site Utilization Request Form (SURF)

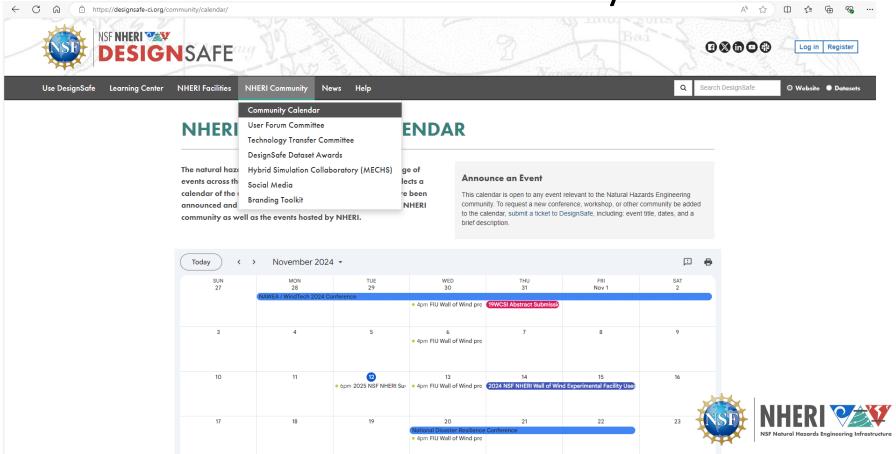
### This form should be filled-out by researchers requesting use of NHERI Equipment Site(s) Project Status: PI Home Institution Project Type: Funding Agency # 1: Funding Agency # 2: Funding Agency # 3: Award Start Date (MM/DD/YYYY): Award Start Date (MM/DD/YYYY): Award Start Date (MM/DD/YYYY): Award End Date (MM/DD/VVVV) Award End Date (MM/DD/VVVV) Award End Date (MM/DD/VVVV) Proposal Deadline (MM/DD/YYYY) Proposal Deadline (MM/DD/YYYY) Anticipated Award Amount (USD): Anticipated Award Amount (USD): Anticipated Award Amount (USD): Total Anticipated Awarded Amount (USD): (1) First NHERI Equipment Facility To Be Used: (2) Second NHERI Equipment Facility To Be Used: Anticipated Site Occupancy Start Date (MM/DD/YYYY): Anticipated Site Occupancy Start Date (MM/DD/YYYY): Anticipated Site Occupancy End Date (MM/DD/YYYY): Anticipated Site Occupancy End Date (MM/DD/YYYY): Anticipated Site Occupancy Start Date (MM/DD/YYYY): Anticipated Site Occupancy Start Date (MM/DD/YYYY): Anticipated Site Occupancy End Date (MM/DD/YYYY): Anticipated Site Occupancy End Date (MM/DD/YYYY): (3) Third NHERI Equipment Facility To Be Used: (4) Fourth NHERI Equipment Facility To Be Used: Anticipated Site Occupancy Start Date (MM/DD/YYYY): Anticipated Site Occupancy Start Date (MM/DD/YYYY): Anticipated Site Occupancy End Date (MM/DD/YYYY): Anticipated Site Occupancy End Date (MM/DD/YYYY): PHASE 2 Anticipated Site Occupancy Start Date (MM/DD/YYYY): Anticipated Site Occupancy Start Date (MM/DD/YYYY): Anticipated Site Occupancy End Date (MM/DD/YYYY): Anticipated Site Occupancy End Date (MM/DD/YYYY):

Project Summary (max 8000 character):

Summary of Facility Requirements (max 8000 character):



# **NHERI Community**





# NHERI Amplifies Broader Impacts

Grand Challenges => Grand Impact



Science



Innovation



Education

REU-Summer Institute-Graduate Student Council





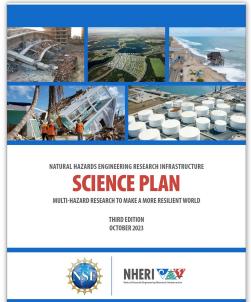
Community

# NHERI Science Plan

A roadmap for high-impact, high-reward hazard engineering research at NHERI facilities

# Three grand challenges remind us why NHERI is so vital:

- Identify and quantify the characteristics of isolated and compounding natural hazards with potential to damage civil infrastructure and disrupt communities (earthquakes, tsunamis, windstorms, storm surge and wages, pluvial and fluvial flooding, wildfires)
- Assess vulnerability and adaptive capacity of civil infrastructure and social systems in communities exposed to these hazards
- Create technologies, tools and human resources to support the design, construction, retrofit, and operation of secure and resilient civil infrastructure





Log in Register



Use DesignSafe

Learning Center

NHERI Facilities

NHERI Community

Help

Search DesignSafe

O Website Datasets

### NHERI NETWORK COORDINATION OFFICE

NCO Overview

**NCO Organization** 

**Education & Community** Outreach (ECO)

NHFRI Governance

International Partnerships

NHERI Science Plan

NHERI Diversity Initiative

### NHERI SCIENCE PLAN

A fundamental responsibility of the NHERI NCO is to oversee the development of a formal Science Plan. The NHERI Science Plan functions as a roadmap for future natural hazards research, ensuring researchers in related disciplines work together to achieve our common goal: keeping the nation's civil infrastructure, and its human inhabitants, safe.

### NHERI Science Plan, Third Edition, October 2023.

Robertson, I., A. Bobet, B. Edge, W. Holmes, D. Johnson, M. LaChance, J. Ramirez, (2023) "Natural Hazards Engineering Research Infrastructure, Science Plan, Multi-Hazard Research to Make a More Resilient World, Third Edition." DesignSafe-CI. https://doi.org/10.17603/ds2-abbs-0966.

### Third Edition Task Group

The following members of the Science Plan Task Group guided the development of the 3rd edition of the five-year NHERI Science Plan:

- Rachel Adams Ph.D. M.P.H. Research. Associate, Natural Hazards Center, University of Colorado Boulder
- Ross W. Boulanger, Ph.D., P.E., N.A.E. Professor, Department of Civil and Environmental Engineering, University of California, Davis
- · Ann-Margaret Esnard, Ph.D., Associate Dean, Andrew Young School of Policy Studies, Georgia State University
- · Andrew Kennedy, Ph.D., Professor, Department of Civil and Environmental Engineering and Earth Sciences, University of Notre Dame
- · Tracy Kijewski-Correa, Ph.D., Professor, Department of Civil and Environmental Engineering and Earth Sciences and Keough School of Global Affairs, University of Notre Dame
- · Bret Lizundia, S.E., Principal, Rutherford + Chekene Consulting Engineers
- · Laura Lowes, Ph.D., Professor, Department of Civil and Environmental



NATURAL HAZARDS ENGINEERING RESEARCH INFRASTRUCTURE

### NHERI GRANT RESEARCH

Search for NSF-funded research awards that employ one or more NHERI resources.

The NCO Technology Transfer Committee maintains this database as a way for potential users of NHERI research and other researchers to discover cognate investigations conducted within the NHERI network.

Questions? Contact the NCO Technology Transfer Committee [ttc-inquiry@designsafe-ci.org].

- · TTC Webpage
- · Contact TTC: ttc-inquiry@designsafe-ci.org
- · NHERI Scheduler Database
- NHERI News

Please make your selections and click the Search button to change the listing.						
Filter by Facility/Group: Sort by: End Date Descending V						
Select a Grant Type: All Types	Select a Hazard Type: All Types Search Title/Abstract/PI/Co-PI:					
Cooreh						

Award Number	Title	End Date	PI / Co-PI	Grant Org	NHERI Facility	Details
2310171	CAREER: Accelerating Real-time Hybrid Physical-Numerical Simulations in Natural Hazards Engineering with a Graphics Processing Unit (GPU)-driven Paradigm	Sep 29, 2027	Barbara Simpson	Stanford University	No Facility Listed	View Details
2209190	Large-scale CoPe: Coastal Hazards, Equity, Economic prosperity, and Resilience (CHEER)	Aug 30, 2027	Rachel Davidson / Sarah DeYoung, Meghan Millea, Linda Nozick, Brian Colle	University of Delaware	No Facility Listed	View Details
2145665	CAREER: Accelerating Real-time Hybrid Physical-Numerical Simulations in Natural Hazards Engineering with a Graphics Processing Unit (GPU)-driven Paradigm	Aug 30, 2027	Barbara Simpson	Oregon State University	Oregon State University	View Details
2144760	CAREER: Engineering-Centric Thunderstorm Hazard and Loading Characterization	Apr 29	Franklin Lombardo	University of Illinois at	University of	View

### NHERI ECO Committee – Lead & Execute



**Robin Nelson** (UTSA) Chair



Stephanie Paal Sara Hamideh Texas A&M **Stony Brook** University

**User Forum** 









Arindam Chowdhury, Amal Elsaday, Erik Salna, Ioannis Zisis **Florida International University** 



Joseph Saunders Lehigh University



Jason Dejong Karissa Alacron **UC Davis** 



Lindsay Carroll, Pedro Lomonaco & Dan Cox **Oregon State University** 



Matt Schoettler **UC Berkeley** 



Candace Evans & Melissa Villareal **UC Boulder** 



Lelli Van Den Einde & Joel Conte **UC San Diego** 



**Kurtis Gurley University of Florida** 



Charlie Dey, Rosalia Gomez & Scott Brandenburg **UT Austin-CI** 



Patricia Clayton **UT Austin Shaker** 





Laura Lowes & Joseph Wartman **University of Washington** 



# NHERI ECO Committee

Plan & drive activities to engage and expand the NHERI community.



- Research Experiences for Undergraduates (REU)
- Summer Institute
- Graduate Student Council
- Webinars & other designsafe-ci.org Learning
  Center resources



# Why a Summer Institute?

### **Desired Outcomes:**

- 1. BUILD COMMUNITY: Welcome to NHERI!
- 2. BUILD SKILLS: Develop key portions of a grant proposal
  - Gain strategies and knowledge from NSF
  - Learn details of experimental facilities & site resources
  - Experience educational outreach opportunities & guidance linked to proposal development
- 3. BUILD KNOWLEDGE: Learn about NHERI resources
- 4. BUILD NETWORK: Gain interdisciplinary collaboration









### NHERI Newsletter June - July 2024

Warm regards to all!

The NHERI Summer Institute in June was another great success, and right now the students in the 2024 REU cohort are preparing to present their research at the REU Symposium, taking place this year at UC San Diego, August 8-9. See below for more educational activities around the NHERI network.



In this issue, you will read about the NSF-funded CHEER Hub, which is partnering with NHERI's SimCenter and DesignSafe. Also, be sure to read how fundamental research at NHERI UC Davis will improve soil investigations for geotechnical engineers.

As you plan for fall activities, keep in mind that NHERI and the natural hazards community will be on hand at the 2024 AGU Meeting, December 9-13. We encourage you to consider attending, Also, for the first time, NHERI researchers will present at the Science Summit at the United Nations General Assembly in September. Stay tuned for details. Be sure to peruse all upcoming events in the community calendar below.

We encourage DesignSafe users to set up multi-factor authentication for their account by August 5. Find instructions here.

Best regards!

Julio

### NHERI RESEARCH:

Aeroelastic Real-Time Hybrid Simulation. I: Validation

Journal of engineering mechanics, Sept 2024. AeroRTHS tests conducted in the Boundary Layer Wind Tunnel at the NHERI University of Florida EF.

### NHERI RESEARCH:

GIS-Based Regional Seismic Risk Assessment for Dubai, UAE, Using NHERI SimCenter R2D Application

Buildings. May 1, 2024.

### NHERI RESEARCH:

Empirical hurricane fragility assessment of elevated and slab-on-grade residential houses

International Journal of Disaster
Risk Reduction, August 2024.
Study employed STEER-collected
data now available on the
DesignSafe Data Depot.

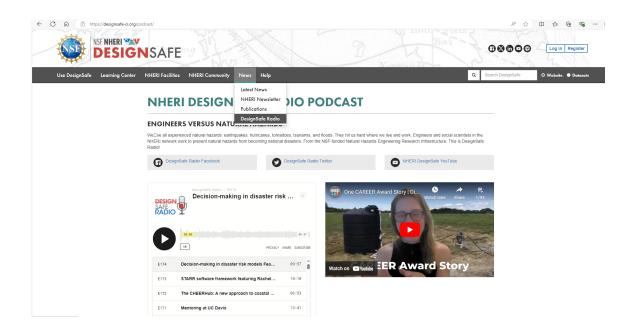
### NHERI DATASET:

Characterization and Geotechnical

NHERI FIELD RESEARCH:

StEER-2024 Houston Derecho

# NHERI NEWS







# **NHERI: Next Generation Natural Hazards Engineering & Science**





U. S. National Science Foundation



# An Overview on

# Simulation & Computational Methods (SCM) Research Subcommittee (RS)

Bijan Sayyafzadeh

SCM Research Subcommittee Representative (RSR)

# Before We Begin:

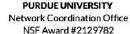
What is the Purpose of Simulation?

To develop a model capable of producing a credible prediction of the behavior of an existing/proposed structure.

Frank McKenna UC Berkeley



# Natural Hazards Engineering Research Infrastructure (NHERI)





NHERI consist of 13 components that aid in developing ways to mitigate the consequences of natural hazards.

UNIVERSITY OF CALIFORNIA, SAN DIEGO Large High-Performance Outdoor Shaker Table

NSF Award #2227407



### NICHE

Planning for the new, shared-used National Full-Scale Testing infrastructure for Community Hardening in Extreme Wind, Wave and Surge Events NSF Award #2131961



#### Various Fields and Areas in NHERI

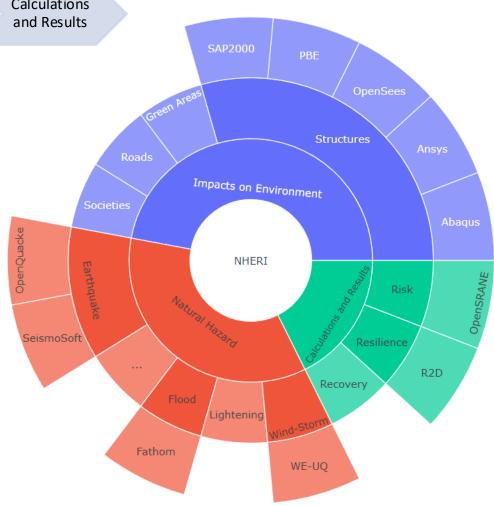
NHERI

Natural Hazards

Impacts on Environment Calculations

 Many Software, tools and **Applications** for various purposes are developed with various assumptions and algorithms.

 Various modeling techniques have been proposed for them and still there are many challenges for their users.





## What are SCM RS goals

- Inviting graduated or under graduate students to present their studies with emphasize on simulation and modeling aspects and challenges they encountered with.
- Providing workshops for introducing various
   Software and applications by their producer or professions.
- Trying to coordinate training courses for some of most useful software and platforms.



# Let's get connected and Join our Subcommittee

Fill the Shared Excel file in the Chat

Anything in mind to do in this subcommittee?

Want to share your insight in private? Email me at: B.Sayyaf@yahoo.com



## Today presentation



### Pooria Mazaheri

- PhD in structural engineering and is a Research Assistant at Iowa State University
- Chair of Research in NHERI GSC





U. S. National Science Foundation



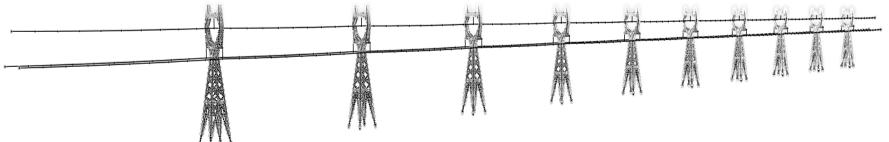
# Risk Assessment for Transmission Lines Under Wind Extremes Considering Multiple Failure Criteria

Pooria Mazaheri, PhD Student Alice Alipour, Associate Professor

# Background & Gap

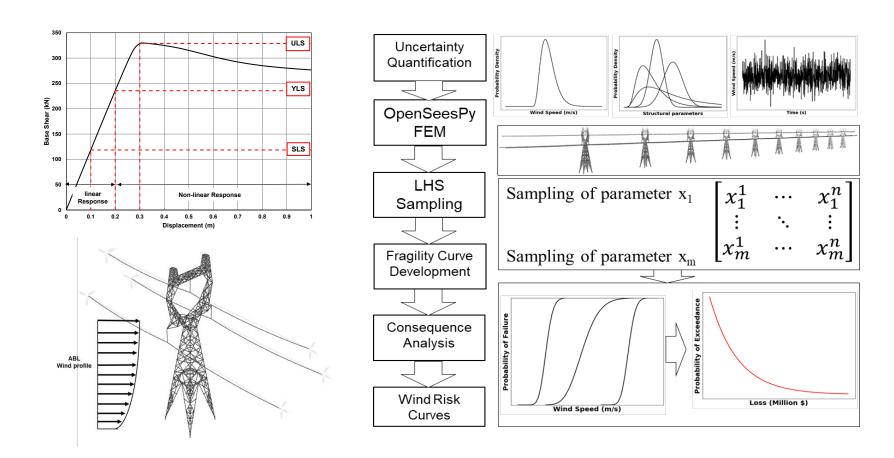






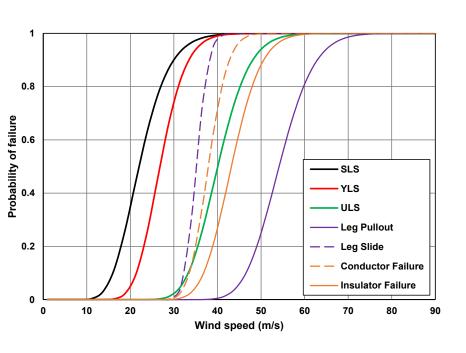


### Methods

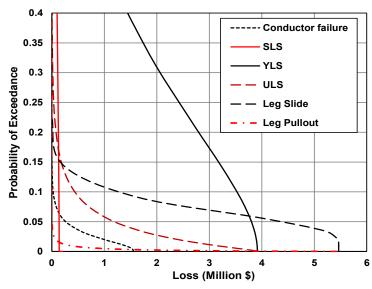




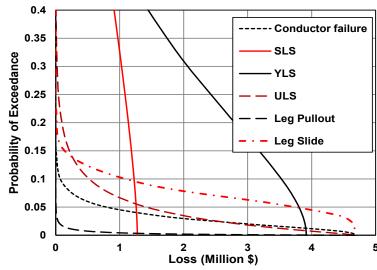
# Research Findings & Conclusions







#### **Outage Risk:**







# Funding from National Science Foundation CAREER award #1751844 is highly appreciated.



National Science Foundation

The NHERI Network Coordination Office is supported by the National Science Foundation award CMMI 2129782. Any statements in this material are those of the presenter(s) and do not necessarily reflect the views of the National Science Foundation.













## 50th Annual Workshop





Sunday, July 13 to Wednesday, July 16, 2025

Wednesday, July 16 to Thursday, July 17, 2025



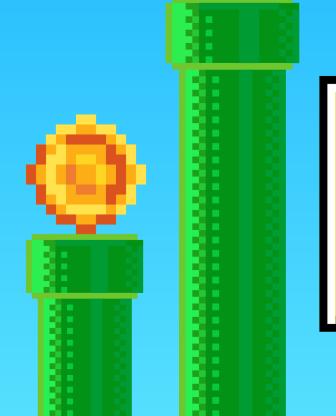
<u>500 Interlocken Boulevard,</u> <u>Broomfield, Colorado, 80021</u>





# 

## Important Information



Deadline: January 24, 2025 Link: https://hazands.color ado.edu/workshop/2 025/workshopvolunteer



# 

Must be enrolled as an undergrad or graduate student.

No C.V., Resume, or Additional Documents are Needed for the Application

What is your interest in studying hazards and disasters? (Limit 250 words)

Why would you like to participate in the Natural Hazards Workshop specifically? (Limit 250 words)

What specific qualities would make you a good candidate to volunteer for the Natural Hazards Workshop? (Limit 250 words)

### Apply!



# The Benefits:

- free registration for the event
- Free meals
- network with peers and respected professionals in the field.





#### Apply!

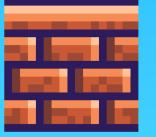


# Advice From volunteer Coordinators

a. Experience organizing or volunteering

b. provide plenty of detail on past experiences where you took on a role that would make you a responsible volunteer

c. Attentiveness to inequality and inclusivity in research and personal life also add to the strength of the application





### Ask A Question



# Student Volunteer Program

Musabber Ali Chisty <u>Musabber.Chisty@colorado.edu</u>

or







Ask A Question





# Erin Boyle

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2024 NHW and Researcher Meeting Volunteer



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# NHERI GSC Research Subcommittee Meetings!

#### **Group Breakout Rooms!**

#### Breakout Rooms (30 Minutes):

- 1. Social Science Subcommittee (Erin Boyle):
- Discuss volunteering at the 50th Annual Natural Hazards Workshop
- **2. Simulation & Computational Methods Subcommittee** (Bijan Sayyafzadeh and Pooria Mazaheri):
- Introduce RSR activities (10 mins)
- Presentation by Pooria Mazaheri on research and Q&A: (10 min)
  - Title: "Risk Assessment for Transmission Lines Under Wind Extremes"
- Discuss the next activities for the RSRs and getting familiar with the members

#### Presented by:

#### Pooria Mazaheri

Chair of Research

#### **Erin Boyle**

RSR of Social Science

#### Bijan Sayyafzadeh

RSR of Simulation & Computational Methods



# **Future Meeting Dates**

3rd Friday of every month at 11:00am CST







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