NATURAL HAZARDS ENGINEERING RESEARCH INFRASTRUCTURE

SUMMER INSTITUTE

June 12-14, 2024



San Antonio, Texas, UTSA Downtown Campus, Durango Building



NHERI Summer Institute Day 1					
Wednesday, June 12, 2024					
Time	Session	Location			
7:30 am-8:00 am	Registration, breakfast, sign-up to meet with NSF ENG/CMMI Program Director, Giovanna Biscontin, and User Forum survey sign-up.	La Villita & Riverwalk Rm			
	Presenter: Giovanna Biscontin Program Director, National Science Foundation Civil, Mechanical, & Manufacturing Innovation (ENG/CMMI)				
8:00 am-9:00 am	Welcome & NHERI Overview Presenter: JoAnn Browning Co-Principal Investigator of the NHERI NCO, Co-Lead of NHERI NCO-ECO	La Villita Rm			
	Interim Vice President of Research and Economic Development The University of Texas at San Antonio				
	Following a welcome by the NCO-ECO leads, attendees will learn about the NHERI network, the Summer Institute objectives, and the UTSA Downtown Campus.				
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9:00 am-9:15 am	Networking Break				
9:15 am-10:40 am	NHERI Site Presentations, Part I After a short introduction, representatives from all 10 NHERI sites will share site information with participants.	La Villita Rm			
9:18 am-9:30 am	Wall of Wind Presenter: Steven Diaz Site Operations Manager, The Wall of Wind Florida International University				
9:32 am-9:44 am	O.H. Hinsdale Wave Research Laboratory Presenter: Pedro Lomónaco Co-Principal Investigator & Director, O.H. Hinsdale Wave Research Laboratory				
	Oregon State University				
9:46 am-9:58 am	Boundary Layer Wind Tunnel Experimental Facility Presenter: Brian Phillips Associate Professor, Department of Civil & Coastal Engineering University of Florida				
10.00 10.12					
10:00 am-10:12 am	Center for Geotechnical Modeling Presenter: Dan Wilson Associate Director & Co-PI, Center for Geotechnical Modeling University of California, Davis				
10:14 am-10:26 am	Large High Performance Outdoor Shake Table Presenter: Joel Conte Principal Investigator, Large High Performance Outdoor Shake Table 6 Professor, Civil Engineering				
	University of California, San Diego				
10:28 am-10:40 am	Large-Scale Mobile Shakers Presenter: Tricia Clayton				



	Co-Principal Investigator, Large-Scale Mobile Shakers The University of Texas at Austin Associate Professor, Civil Engineer at Wake Forest University	
10:42 am- 11:00 am	Networking Break	La Villita Rm
11:00 am-12:11 pm	NHERI Site Presentation, Part II	La Villita Rm
11:03 am-11:15 am	Computational Modeling and Simulation Center (SimCenter) Presenter: Laura Lowes Leadership Team, SimCenter University of California, Berkeley	
11:17 am-11:29 am	RAPID Natural Hazards Reconnaissance Presenter: Laura Lowes ECO Director, RAPID Facility Department Chair & Professor, Civil & Environmental Engineering University of Washington	
11:31 am-11:43 am	Real-Time Multi-Directional (RTMD) Experimental Facility Presenters: James Ricles Principal Investigator & Director, Real-Time Multi-Directional Experimental Facility Lehigh University, Bruce G. Johnson Professor of Structural Engineering	
	Liang Cao Research Scientist, Real-Time Multi-Directional Experimental Facility Lehigh University	
11:45 pm-11:57 pm	DesignSafe-Cyberinfrastructure Presenter: Tim Cockerill Director of User Services at Texas Advanced Computing Center The University of Texas at Austin	
11:59 pm-12:11 pm	CONVERGE & Natural Hazards Center Presenter: Candace Evans Graduate Research Assistant & Co-Lead Training Module Developer CONVERGE & Natural Hazards Center PhD Candidate, Department of Sociology University of Colorado, Boulder	
12:15 pm-1:15 pm	Networking Lunch / Meetings with NSF Program Director Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.	Riverwalk Rm
1:15 pm-2:15 pm	NHERI Networking Round Table Discussions (3 sessions – 15 Minutes each) Attendees will speak with NHERI representatives from each site. • Round 1- all sites available, except SimCenter • Round 2- all sites available, except RAPID • Round 3- all site available	Riverwalk Rm
2:15 pm-2:30 pm	Networking Lunch / Meetings with NSF Program Director Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.	La Villita & Riverwalk Rm
2:30 pm-4:15 pm	NSF Grant Writing Workshop Research 101	La Villita Rm



Presenter: Joy Pauschke

Program Director, National Science Foundation

Division of Civil, Mechanical, and Manufacturing Innovation (CMMI)

Attendees will learn about research merit, overview of research activities and resources, and broader impacts of NSF proposal writing from the NSF CMMI Program Director, Joy

Pauschke.

4:15 pm-4:30 pm Networking Break/ Meetings with NSF Program Director

Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.

La Villita & Riverwalk Rm

La Villita Rm

Mi Tierra

4:30 pm-5:30 pm Interdisciplinary Research Teams: Intellectual Merit

Attendees meet their interdisciplinary research teams and learn more about the mock proposal. Members will introduce themselves and their research, compare research areas, identify problems, and explore common ground where a team's combined research

knowledge can solve problems more effectively together.

We will meet in the La Villita Rm at 6:00 to walk to Mi Tierra together. Please wear cool clothes and comfortable walking shoes.

Hosted by:

Stephanie Paal

NHERI User Forum Member & Associate Professor, Civil & Environmental Engineering Texas A&M University

Shane Crawford

NHERI User Forum Member & Assistant Professor, Civil, Construction, & Environmental Engineering, University of Alabama

Antonio Bobet

NHERI NCO Co-Principal Investigator, User Forum NCO Representative, Edgar B., and Hedwig M. Olson Professor in Civil Engineering Purdue University

David Johnson

NHERI NCO, User Forum NCO Representative, Associate Professor in Industrial Engineering & Political Science
Purdue University



NHERI Summer Institute Day 2				
Time	Thursday, June 13, 2024 Session	Location		
8:00 am-8:30 am	Registration, breakfast, sign-up to meet with NSF ENG/CMMI Program	Riverwalk Rm		
8.00 ani-8.30 ani	Director, Giovanna Biscontin and User Forum survey sign-up.	KIVEIWAIK KIII		
8:30 am-8:45am	Education Consultant Welcome & Introductions Dr. Brian Welch, Anson Jones STEM Magnet Middle School, Northside Independent School District	La Villita Rm		
	Jonathan Sandoval, Anson Jones STEM Magnet Middle School, Northside Independent School District			
	Lindsay Carroll, Hatfield Marine Science Center, Oregon State University			
8:45 am-10:45 am	NHERI Science Plan 3rd Edition Presenter: Billy Edge NHERI NCO Co-PI and NHERI Science Plan Task Group, Professor Emeritus, Civil, Construction & Environmental Engineering North Carolina State University	La Villita Rm		
	Attendees will participate in an introduction, overview, and discussion of the third iteration of the NHERI Science Plan to address pressing research needs for the natural hazards' engineering community.			
	Interdisciplinary Research Teams: Science Plan Research Questions Attendees will select one Key Research Question and one Grand Challenge with guidance from the NHERI Science Plan Task Group and the NHERI site representatives to complete their intellectual merit, research question, and resource plan slides.	La Villita Rm		
10:45 am-11:00 am	Networking Break/Meetings with NSF Program Director	La Villita Rm		
11:00 am-12:00 pm	Interdisciplinary NSF CAREER Awardee Panel Moderated by: Karina Vielma NHERI NCO-ECO Assistant Lead Assistant Professor, Engineering Education The University of Texas at San Antonio	La Villita Rm		
	Panelist: Stephanie Paal Associate Professor, Civil & Environmental Engineering Texas A&M University (whoop!)			
	Panelist: Gabriela Uribe Associate Professor, Chemical Engineering University of Texas at San Antonio			
	Panelist: Christopher Combs Assistant Professor, Dee Howard Faculty Fellow, Mechanical Engineering University of Texas at San Antonio			
	Panelist: David Johnson Associate Professor, Political Science & Industrial Engineering Purdue University			



	Attendees will learn about the NSF CAREER proposal from an interdisciplinary panel of successful awardees. Panelists will answer attendees' questions and share their experiences as they prepared submissions for the NSF CAREER proposal.	Riverwalk Rm/
12:00 pm-12:55 pm	Networking Lunch / Meetings with NSF Program Director Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.	Alamo Boardroom
1:00 pm-2:15 pm	Diversity, Equity, and Inclusion Workshop Facilitated by: Alex Mejia Associate Professor, Engineering Education The University of Texas at San Antonio Karina Vielma NHERI NCO-ECO Co-Lead Assistant Professor, Engineering Education The University of Texas at San Antonio The workshop will give attendees opportunities to dialogue about topics of diversity, equity, and inclusion with other early career faculty members and education researchers.	La Villita Rm
2:15 pm-2:30 pm	Networking Break / Meetings with NSF Program Director Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.	La Villita & Riverwalk Rm
2:30 pm-3:15 pm	Broader Impacts Presenter: Karina Vielma NHERI NCO-ECO Assistant Lead Assistant Professor, Engineering Education The University of Texas at San Antonio	La Villita Rm
	Attendees will learn more about the broader impacts of NSF proposals from Engineering Education Assistant Professor, Karina Vielma.	
3:15 pm-3:30 pm	Networking Break / Meetings with NSF Program Director Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.	La Villita & Riverwalk Rm
3:30 pm-5:30 pm	Interdisciplinary Research Teams: Broader Impacts Consultation Attendees will work with education consultants to develop a plan for incorporating K-12 component meaningfully into your proposal.	La Villita & Riverwalk Rm La Villita Rm
5:55 pm-7:30 pm	Klesse College of Engineering & Integrated Design sponsored River Cruise Participants will tour the River Walk via river barge. Please meet in the La Villita room at 5:55 pm. We will walk a short distance to catch the bus which will take the shuttle us.	Za vima Kiii



NHERI Summer Institute Day 3				
Friday, June 14, 2024 Time Session Location				
8:00 am-8:30 am	Breakfast and User Forum survey sign-up.	Riverwalk Rm		
8:30 am-9:00 am	NHERI Technology Transfer Committee (TTC) Presenter: Kelly Cobeen Associate Principal, Wiss, Janney, Elstner Associates, Inc.	La Villita Rm		
	Presenter: Chris Rojahn Director Emeritus, Applied Technology Council Presenter: Joseph Cibor			
	President, Cibor, Inc.			
9:00 am-9:45 am	Interdisciplinary Research Teams: Research into Practice Attendees will work within their teams to create a plan for moving research to practice for their mock proposal with guidance from the Technology Transfer Committee members.	La Villita & Riverwalk Rm La Villita &		
9:45 am-10:00 am	Networking Break / Meetings with NSF Program Director Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.	Riverwalk Rm La Villita Rm		
10:00 am-12:00 pm	Interdisciplinary Research Teams: Presentation Attendees will finalize their mock proposal presentations to present.	Alamo Boardroom Alamo Boardroom		
10:00 am-11:00 am	User Forum Annual Meeting User Forum members will meet for their annual in person meeting.			
11:15 am-11:45 pm	ECO Committee Meeting ECO Committee members will meet for their June meeting.			
12:00 pm-12:55 pm	Networking Lunch / Meetings with NSF Program Director Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.	Riverwalk Rm		
1:00 pm-3:00 pm	Group Mock Proposal Presentations Attendees will present their mock proposal slides to the judges and other participants for feedback.	La Villita Rm		
3:00 pm-3:15 pm	Networking Break / Meetings with NSF Program Director Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.	La Villita & Riverwalk Rm		
3:15 pm-3:45 pm	Awards Presentation & Concluding Remarks Presenter: Karina Vielma NHERI NCO-ECO Lead Assistant Professor, Engineering Education The University of Texas at San Antonio	La Villita Room		
	The award for the best mock proposal will be presented before concluding remarks close out the 2024 NHERI Summer Institute.			

