

NATURAL HAZARDS ENGINEERING RESEARCH INFRASTRUCTURE

SUMMER INSTITUTE

June 21-23, 2023



San Antonio, Texas,
UTSA Downtown Campus,
Durango Building

NHERI Summer Institute Day 1
Wednesday, June 21, 2023

Time	Session	Location
7:30 am-8:00 am	Registration, breakfast, sign-up to meet with NSF ENG/CMMI Program Director, Giovanna Biscontin.	Riverwalk Room
8:00 am-9:15 am	<p>Welcome & NHERI Overview Presenter: JoAnn Browning Co-Principal Investigator of the NHERI NCO, Lead of NHERI NCO-ECO Interim Vice President of Research and Economic Development The University of Texas at San Antonio</p> <p><i>Following a welcome by the NCO-ECO lead, attendees will learn about the NHERI network, the Summer Institute objectives, and the UTSA Downtown Campus.</i></p>	La Villita Room
9:15 am-9:30 am	Networking Break	
9:30 am-10:55 am	<p>NHERI Site Presentations, Part I</p> <p><i>After a short introduction, representatives from all 11 NHERI sites will share site information with participants.</i></p>	La Villita Room
9:32 am-9:44 am	<p>Wall of Wind Presenter: Krishna Sai Vutukuru Research Specialist, The Wall of Wind Florida International University</p>	
9:46 am-9:58 am	<p>O.H. Hinsdale Wave Research Laboratory Presenter: Pedro Lomónaco Co-Principal Investigator & Director, O.H. Hinsdale Wave Research Laboratory Oregon State University</p>	
10:00 am-10:12 am	<p>Boundary Layer Wind Tunnel Experimental Facility Presenter: Jennifer Bridge Principal Investigator & Director, Boundary Layer Wind Tunnel Associate Professor, Department of Civil & Coastal Engineering University of Florida</p>	
10:14 am-10:26 am	<p>Center for Geotechnical Modeling Presenter: Jiarui Chen Postdoctoral Scholar, Center for Geotechnical Modeling University of California, Davis</p>	
10:28 am-10:40 am	<p>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</p> <p><i>Koorosh Lotfizadeh Director of NHERI Operations & Project Scientist, Large High Performance Outdoor Shake Table 6 University of California, San Diego</i></p>	
10:42 am-10:54 am	<p>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</p>	

10:55 am-11:10 am	Networking Break	La Villita & Riverwalk Room
11:15 am-12:25 pm	NHERI Site Presentation, Part II	La Villita Room
11:17 am-12:29 am	Computational Modeling and Simulation Center (SimCenter) <i>Presenter: Laura Lowes</i> <i>Leadership Team, SimCenter</i> <i>University of California, Berkeley</i>	
11:31 am-11:43 am	RAPID Natural Hazards Reconnaissance <i>Presenter: Laura Lowes</i> <i>ECO Director, RAPID Facility</i> <i>Department Chair & Professor, Civil & Environmental Engineering</i> <i>University of Washington</i>	
11:45 am-11:57 am	Real-Time Multi-Directional (RTMD) Experimental Facility <i>Presenters: James Ricles</i> <i>Principal Investigator & Director, Real-Time Multi-Directional Experimental Facility</i> <i>Lehigh University, Bruce G. Johnson Professor of Structural Engineering</i> <i>Liang Cao</i> <i>Research Scientist, Real-Time Multi-Directional Experimental Facility</i> <i>Lehigh University</i>	
11:59 am-12:11 pm	DesignSafe-Cyberinfrastructure <i>Presenter: Tim Cockerill</i> <i>Director of User Services at Texas Advanced Computing Center</i> <i>The University of Texas at Austin</i>	
12:13 pm-12:25 pm	CONVERGE & Natural Hazards Center <i>Presenter: Melissa Villarreal</i> <i>Graduate Research Assistant, CONVERGE & Natural Hazards Center</i> <i>PhD Candidate, Department of Sociology</i> <i>University of Colorado, Boulder</i>	
12:30 pm-1:15pm	Networking Lunch/ Meetings with NSF Program Director <i>Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.</i>	Riverwalk Room/Alamo Boardroom
1:20 pm-1:55 pm	NHERI Networking Round Table Discussions <i>Attendees will have the opportunity to speak with NHERI representatives from each site.</i>	La Villita Room
2:00 pm-3:45 pm	NSF Grant Writing Workshop Research 101 <i>Presenter: Joy Pauschke</i> <i>Program Director, National Science Foundation</i> <i>Division of Civil, Mechanical, and Manufacturing Innovation (CMMI)</i> <i>Attendees will learn about the research merit, overview of research activities and resources, and broader impacts of NSF proposal writing from the NSF CMMI Program Director, Joy Pauschke.</i>	La Villita Room
3:45 pm-4:00 pm	Networking Break/ Meetings with NSF Program Director <i>Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.</i>	La Villita & Riverwalk Room

4:00 pm-5:00 pm	<p>Interdisciplinary NSF CAREER Award Panel Moderated by: <i>Karina Vielma</i> <i>NHERI NCO-ECO Assistant Lead</i> <i>Assistant Professor, Engineering Education</i> <i>The University of Texas at San Antonio</i></p> <p><i>Panelist: Jennifer Bridge</i> <i>Principal Investigator & Director, Boundary Layer Wind Tunnel</i> <i>Associate Professor, Department of Civil & Coastal Engineering</i> <i>University of Florida</i></p> <p><i>Panelist: Stephanie Paal</i> <i>Associate Professor, Civil & Environmental Engineering</i> <i>Texas A&M University (whoop!)</i></p> <p><i>Panelist: Teja Guda</i> <i>Jacobson Distinguished Professor of Innovation & Entrepreneurship, Associate</i> <i>Professor, Biomedical Engineering</i> <i>University of Texas at San Antonio</i></p> <p><i>Panelist: Chris Rathbone</i> <i>Assistant Professor, Biomedical Engineering</i> <i>University of Texas at San Antonio</i></p> <p><i>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.</i></p>	La Villita Room
6:00 pm-8:00 pm	<p>User Forum Meet & Greet with Appetizers at Mi Tierra</p> <p>Hosted by: <i>Mohammad Khosravi</i> <i>NHERI User Forum Chair & Assistant Professor of Geotechnical Earthquake Engineering & Ground</i> <i>Montana State University</i></p> <p><i>Wei Song</i> <i>NHERI User Forum Vice Chair & Associate Professor Center for Sustainable Infrastructure, Civil, Construction, & Environmental</i> <i>University of Alabama</i></p> <p><i>Sabarethinam Kameshwar</i> <i>NHERI User Forum Member & Assistant Professor, Civil & Environmental Engineering</i> <i>Louisiana State University</i></p> <p><i>Yazen Khasawneh</i> <i>NHERI User Forum Member, NHERI TTC Member, & Associate Teaching Professor,</i> <i>Civil & Environmental Engineering & Earth Sciences</i> <i>University of Notre Dame</i></p> <p><i>Stephanie Paal</i> <i>NHERI User Forum Member & Associate Professor, Civil & Environmental Engineering</i> <i>Texas A&M University (whoop!)</i></p> <p><i>Cláudia Reis</i> <i>NHERI User Forum Member & Postdoctoral scholar</i> <i>Oregon State University</i></p> <p><i>Esteban Villalobos Vega</i></p>	Mi Tierra (Meet in the La Villita Room at 5:45pm to walk to the restaurant as a group.)

*NHERI User Forum GSC Representative, PhD Candidate, & Graduate Research Assistant
Oklahoma State University*

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

Enjoy the ambiance of Mi Tierra as you mingle, snack on appetizers, savor a drink from the cash bar, and meet the User Forum. Attendees will learn about the User Forum, its purpose, and upcoming leadership opportunities.

**NHERI Summer Institute Day 2
Thursday, June 22, 2023**

Time	Session	Location
8:00 am-8:30 am	Registration, breakfast, User Forum participatory asset mapping, sign-up to meet with NSF ENG/CMMI Program Director, Giovanna Biscontin.	Riverwalk Room
8:30 am-9:30 am	NHERI Science Plan Presenter: Billy Edge <i>NHERI NCO Co-PI and NHERI Science Plan Task Group, Professor, Civil, Construction & Environmental Engineering North Carolina State University</i> <i>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.</i>	La Villita Room
8:30 am-11:45 am	K-12 Educator Orientation Presenter: Karina Vielma <i>NHERI NCO-ECO Assistant Lead Assistant Professor, Engineering Education The University of Texas at San Antonio</i> <i>K-12 educators will meet with the NHERI NCO-ECO Assistant Director to learn about the NHERI network, the Summer Institute objectives, and implications for K-12 broader impacts within National Science Foundation proposals.</i>	Alamo Board Room
9:30 am-11:45 am	Collaborative Proposal Writing Workshop: Intellectual Merit <i>Attendees will be introduced to the mock proposal and collaborative groups. In their collaborative groups, they will begin work on the mock proposal with guidance from the NHERI Science Plan Task Group and the NHERI site representatives by identifying their intellectual merit and research questions.</i>	La Villita Room
11:45 am-12:00 pm	K-12 educator introduction into collaborative groups	La Villita Room
12:00 pm-12:55 pm	Networking Lunch/ Meetings with NSF Program Director <i>Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.</i>	Riverwalk Room/Alamo Boardroom
1:00 pm-2:45 pm	Diversity, Equity, and Inclusion Workshop Facilitated by: Karina Vielma <i>NHERI NCO-ECO Assistant Lead Assistant Professor, Engineering Education</i>	La Villita Room

The University of Texas at San Antonio

Facilitated by: *Joel Alejandro Mejia*
Associate Professor of 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.

2:45 pm-3:00 pm	Networking Break/ Meetings with NSF Program Director <i>Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.</i>	La Villita & Alamo Boardroom
3:00 pm-3:30 pm	Broader Impacts Presenter: <i>Karina Vielma</i> <i>NHERI NCO-ECO Assistant Lead</i> <i>Assistant Professor, Engineering Education</i> <i>The University of Texas at San Antonio</i> <i>Attendees will learn more about the broader impacts of NSF proposals from Engineering Education Assistant Professor, Karina Vielma.</i>	La Villita Room
3:30 pm-3:45 pm	Networking Break/ Meetings with NSF Program Director <i>Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.</i>	La Villita & Riverwalk Room
3:45 pm-5:30 pm	Collaborative Proposal Writing Workshop: Broader Impacts <i>Attendees will work within their collaborative groups to create a broader impacts educational plan with the help of K-12 Educators and NHERI Educational Specialists.</i>	La Villita & Riverwalk Room
6:30 pm-7:30 pm	Klesse College of Engineering & Integrated Design sponsored tour of the Tower of the Americas <i>Participants will tour the Tower of the Americas. Please meet in the La Villita room at 6:00 pm. We will walk a short distance to catch the bus which will take us to the Tower of the Americas.</i>	La Villita Room

NHERI Summer Institute Day 3
Friday, June 23, 2023

Time	Session	Location
8:00 am-8:30 am	Registration, breakfast, User Forum participatory asset mapping, sign-up to meet with NSF ENG/CMMI Program Director, Giovanna Biscontin.	Riverwalk Room
8:30 am-9:00 am	NHERI Technology Transfer Committee (TTC) Presenter: <i>Cherylyn Henry</i> <i>Zapata Group, ASCE7 Wind Load Subcommittee Chair</i> Presenter: <i>Yazen Khasawneh</i> <i>Associate Teaching Professor, Civil & Environmental Engineering & Earth Sciences</i> <i>University of Notre Dame</i> Presenter: <i>Joseph Cibor</i> <i>President, Cibor, Inc.</i> <i>Attendees will participate in an introduction, overview, and discussion of ways to transfer technology from research into practice from the NHERI TTC members.</i>	La Villita Room

9:00 am-9:45 am	<p>Collaborative Proposal Writing Workshop: Research into Practice</p> <p><i>Attendees will work within their collaborative groups to create a plan for research to practice for their mock proposal with guidance from the Technology Transfer Committee members.</i></p>	La Villita & Riverwalk Room
9:45 am-10:00 am	<p>Networking Break</p>	La Villita & Riverwalk Room
10:00 am-12:00 pm	<p>Collaborative Proposal Writing Workshop: Presentation</p> <p><i>Attendees will continue to work within their collaborative groups to finalize their mock proposal PowerPoint and submit to Dropbox for the final presentation.</i></p>	La Villita & Riverwalk Room
10:00 am-11:00 am	<p>User Forum Meeting</p> <p><i>User Forum members will meet for their June meeting.</i></p>	Alamo Boardroom
11:15 am-11:45 pm	<p>ECO Committee Meeting</p> <p><i>ECO members will meet for their June meeting and reflect on the programming decisions.</i></p>	Alamo Boardroom
12:00 pm-12:55 pm	<p>Networking Lunch</p>	Riverwalk Room
1:00 pm-3:00 pm	<p>Group Mock Proposal Presentations</p> <p><i>Attendees will present their collaborative group's mock proposal to the panel of distinguished NHERI judges (Julio Ramirez, Antonio Bobet, Giovanna Biscontin, Tim Cockerill).</i></p>	La Villita Room
3:00 pm-3:15 pm	<p>Networking Break</p>	La Villita & Riverwalk Room
3:15 pm-3:45 pm	<p>Awards Presentation & Concluding Remarks</p> <p>Presenter: Julio Ramirez <i>Karl H. Kettelhut Professor in Civil Engineering & NHERI NCO Principal Investigator & Center Director Purdue University</i></p> <p>Presenter: JoAnn Browning <i>Co-Principal Investigator of the NHERI NCO, Lead of NHERI NCO-ECO Interim Vice President of Research and Economic Development The University of Texas at San Antonio</i></p> <p><i>Award for the best mock proposal will be presented before concluding remarks close out the 2023 NHERI Summer Institute.</i></p>	La Villita Room