NATURAL HAZARDS ENGINEERING RESEARCH INFRASTRUCTURE

SUMMER INSTITUTE

June 21-23, 2023

San Antonio, Texas,
UTSA Downtown Campus,
Durango Building
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>7:30 am-8:00 am</td>
<td>Registration, breakfast, sign-up to meet with NSF ENG/CMMI Program Director, Giovanna Biscontin.</td>
<td>Riverwalk Room</td>
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</table>
| 8:00 am-9:15 am  | **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  
Following a welcome by the NCO-ECO lead, attendees will learn about the NHERI network, the Summer Institute objectives, and the UTSA Downtown Campus. | La Villita Room      |
| 9:15 am-9:30 am  | Networking Break                                                                             |                     |
| 9:30 am-10:55 am | **NHERI Site Presentations, Part I**  
After a short introduction, representatives from all 11 NHERI sites will share site information with participants. | La Villita Room      |
| 9:32 am-9:44 am  | **Wall of Wind**  
**Presenter:** Krishna Sai Vutukuru  
Research Specialist, The Wall of Wind  
Florida International University |                     |
| 9:46 am-9:58 am  | **O.H. Hinsdale Wave Research Laboratory**  
**Presenter:** Pedro Lomónaco  
Co-Principal Investigator & Director, O.H. Hinsdale Wave Research Laboratory  
Oregon State University |                     |
| 10:00 am-10:12 am| **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 |                     |
| 10:14 am-10:26 am| **Center for Geotechnical Modeling**  
**Presenter:** Jiarui Chen  
Postdoctoral Scholar, Center for Geotechnical Modeling  
University of California, Davis |                     |
| 10:28 am-10:40 am| **Large High Performance Outdoor Shake Table**  
**Presenter:** Joel Conte  
Principal Investigator, Large High Performance Outdoor Shake Table  
Professor, Civil Engineering  
University of California, San Diego  
Koorosh Lotfizadeh  
Director of NHERI Operations & Project Scientist, Large High Performance Outdoor Shake Table  
University of California, San Diego |                     |
| 10:42 am-10:54 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 |                     |
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<tr>
<td>10:55 am - 11:10 am</td>
<td>Networking Break</td>
<td>La Villita &amp; Riverwalk Room</td>
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<tr>
<td>11:15 am - 12:25 pm</td>
<td>NHERI Site Presentation, Part II</td>
<td>La Villita Room</td>
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<td>11:17 am - 12:29 am</td>
<td>Computational Modeling and Simulation Center (SimCenter)</td>
<td>La Villita Room</td>
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<td>11:31 am - 11:43 am</td>
<td>RAPID Natural Hazards Reconnaissance</td>
<td>La Villita Room</td>
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<td>11:45 am - 11:57 am</td>
<td>Real-Time Multi-Directional (RTMD) Experimental Facility</td>
<td>La Villita Room</td>
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<td>11:59 am - 12:11 pm</td>
<td>DesignSafe-Cyberinfrastructure</td>
<td>La Villita Room</td>
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<td>12:13 pm - 12:25 pm</td>
<td>CONVERGE &amp; Natural Hazards Center</td>
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<td>12:30 pm - 1:15 pm</td>
<td>Networking Lunch/Meetings with NSF Program Director</td>
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<td>1:20 pm - 1:55 pm</td>
<td>NHERI Networking Round Table Discussions</td>
<td>La Villita Room</td>
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<td>2:00 pm - 3:45 pm</td>
<td>NSF Grant Writing Workshop Research 101</td>
<td>La Villita Room</td>
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<tr>
<td>3:45 pm - 4:00 pm</td>
<td>Networking Break/Meetings with NSF Program Director</td>
<td>La Villita &amp; Riverwalk Room</td>
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4:00 pm-5:00 pm  **Interdisciplinary NSF CAREER Award Panel**

*Moderated by:* Karina Vielma  
HERI NCO-ECO Assistant Lead  
Assistant Professor, Engineering Education  
The University of Texas at San Antonio

*Panelist: Jennifer Bridge*  
Principal Investigator & Director, Boundary Layer Wind Tunnel  
Associate Professor, Department of Civil & Coastal Engineering  
University of Florida

*Panelist: Stephanie Paal*  
Associate Professor, Civil & Environmental Engineering  
Texas A&M University (whoop!)

*Panelist: Teja Guda*  
Jacobson Distinguished Professor of Innovation & Entrepreneurship, Associate Professor, Biomedical Engineering  
University of Texas at San Antonio

*Panelist: Chris Rathbone*  
Assistant Professor, Biomedical Engineering  
University of Texas at San Antonio

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.

6:00 pm-8:00 pm  **User Forum Meet & Greet with Appetizers at Mi Tierra**

*Hosted by:* Mohammad Khosravi  
HERI User Forum Chair & Assistant Professor of Geotechnical Earthquake Engineering & Ground  
Montana State University

Wei Song  
HERI User Forum Vice Chair & Associate Professor Center for Sustainable Infrastructure, Civil, Construction, & Environmental Engineering  
University of Alabama

Sabarethinam Kameshwar  
HERI User Forum Member & Assistant Professor, Civil & Environmental Engineering  
Louisiana State University

Yazen Khasawneh  
HERI User Forum Member, NHERI TTC Member, & Associate Teaching Professor, Civil & Environmental Engineering & Earth Sciences  
University of Notre Dame

Stephanie Paal  
HERI User Forum Member & Associate Professor, Civil & Environmental Engineering  
Texas A&M University (whoop!)

Cláudia Reis  
HERI User Forum Member & Postdoctoral scholar  
Oregon State University

Esteban Villalobos Vega
**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**

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<td>Registration, breakfast, User Forum participatory asset mapping, sign-up to meet with NSF ENG/CMMI Program Director, Giovanna Biscontin.</td>
<td>Riverwalk Room</td>
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| 8:30 am-9:30 am | **NHERI Science Plan**  
**Presenter:** Billy Edge  
NHERI NCO Co-PI and NHERI Science Plan Task Group, Professor, Civil, Construction & Environmental Engineering  
*North Carolina State University*  
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. | La Villita Room |
| 8:30 am-11:45 am| **K-12 Educator Orientation**  
**Presenter:** Karina Vielma  
NHERI NCO-ECO Assistant Lead  
Assistant Professor, Engineering Education  
*The University of Texas at San Antonio*  
*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.* | Alamo Board Room |
| 9:30 am-11:45 am| **Collaborative Proposal Writing Workshop: Intellectual Merit** | 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**  
*Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.* | Riverwalk Room/Alamo Boardroom |
| 1:00 pm-2:45 pm | **Diversity, Equity, and Inclusion Workshop**  
**Facilitated by:** Karina Vielma  
NHERI NCO-ECO Assistant Lead  
Assistant Professor, Engineering Education | 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
Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.

3:00 pm-3:30 pm  Broader Impacts
Presenter: Karina Vielma
NHERI NCO-ECO Assistant Lead
Assistant Professor, Engineering Education
The University of Texas at San Antonio

Attendees will learn more about the broader impacts of NSF proposals from Engineering Education Assistant Professor, Karina Vielma.

3:30 pm-3:45 pm  Networking Break/ Meetings with NSF Program Director
Individuals who signed up will meet with NSF Program Director, Giovanna Biscontin.

3:45 pm-5:30 pm  Collaborative Proposal Writing Workshop: Broader Impacts
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.

6:30 pm-7:30 pm  Klesse College of Engineering & Integrated Design sponsored tour of the Tower of the Americas
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.

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NHERI Summer Institute Day 3
Friday, June 23, 2023

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<td>Riverwalk Room</td>
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<td>8:30 am-9:00 am</td>
<td><strong>NHERI Technology Transfer Committee (TTC)</strong>&lt;br&gt;&lt;br&gt;<strong>Presenter:</strong> Cheryllyn Henry&lt;br&gt;<strong>Presenter:</strong> Yazen Khasawneh&lt;br&gt;<strong>Presenter:</strong> Joseph Cibor&lt;br&gt;<strong>Presenter:</strong> University of Notre Dame&lt;br&gt;<strong>Presenter:</strong> President, Cibor, Inc.&lt;br&gt;&lt;br&gt;Attendees will participate in an introduction, overview, and discussion of ways to transfer technology from research into practice from the NHERI TTC members.</td>
<td>La Villita Room</td>
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<tr>
<td>9:00 am-9:45 am</td>
<td><strong>Collaborative Proposal Writing Workshop: Research into Practice</strong></td>
<td>La Villita &amp; Riverwalk Room</td>
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<td><em>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.</em></td>
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<td>9:45 am-10:00 am</td>
<td><strong>Networking Break</strong></td>
<td>La Villita &amp; Riverwalk Room</td>
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<tr>
<td>10:00 am-12:00 pm</td>
<td><strong>Collaborative Proposal Writing Workshop: Presentation</strong></td>
<td>La Villita &amp; Riverwalk Room</td>
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<td><em>Attendees will continue to work within their collaborative groups to finalize their mock proposal PowerPoint and submit to Dropbox for the final presentation.</em></td>
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<td>10:00 am-11:00 am</td>
<td><strong>User Forum Meeting</strong></td>
<td>Alamo Boardroom</td>
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<td><em>User Forum members will meet for their June meeting.</em></td>
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<td>11:15 am-11:45 pm</td>
<td><strong>ECO Committee Meeting</strong></td>
<td>Alamo Boardroom</td>
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<td><em>ECO members will meet for their June meeting and reflect on the programming decisions.</em></td>
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<td>12:00 pm-12:55 pm</td>
<td><strong>Networking Lunch</strong></td>
<td>Riverwalk Room</td>
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<td>1:00 pm-3:00 pm</td>
<td><strong>Group Mock Proposal Presentations</strong></td>
<td>La Villita Room</td>
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<td><em>Attendees will present their collaborative group’s mock proposal to the panel of distinguished NHERI judges (Julio Ramirez, Antonio Bobet, Giovanna Biscontin, Tim Cockerill).</em></td>
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<td>3:00 pm-3:15 pm</td>
<td><strong>Networking Break</strong></td>
<td>La Villita &amp; Riverwalk Room</td>
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<td>3:15 pm-3:45 pm</td>
<td><strong>Awards Presentation &amp; Concluding Remarks</strong></td>
<td>La Villita Room</td>
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<td><em>Presenter: Julio Ramirez</em></td>
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<td><em>Karl H. Kettelhut Professor in Civil Engineering &amp; NHERI NCO Principal Investigator &amp; Center Director  Purdue University</em></td>
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<td><em>Presenter: JoAnn Browning</em></td>
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<td><em>Co-Principal Investigator of the NHERI NCO, Lead of NHERI NCO-ECO</em></td>
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<td><em>Interim Vice President of Research and Economic Development</em></td>
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<td><em>The University of Texas at San Antonio</em></td>
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<td><em>Award for the best mock proposal will be presented before concluding remarks close out the 2023 NHERI Summer Institute.</em></td>
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