NHERI- Network Independent Advisory Committee (NIAC)

Topic: NIAC Meeting in Year-3

Location: NHERI Summer Institute, San Antonio TX

Room: El Paseo A Room

Time: June 7, 2019 -- 1:30-4:30 PM CT

Webex Meeting Details:

Title: NIAC-Facilities Meetings and NIAC meeting SI 6-7-19

https://purdue.webex.com/purdue Location:

When: Friday, June 7, 2019 9:30 AM – 4:30 PM Central

webex <messenger@webex.com> Organizer:

Description: JOIN WEBEX MEETING https://purdue.webex.com/purdue/j.php?MTID=ma4c49f3c0ccd85b4b93fd5dd1ceadfe7 Meeting number (access code): 647 124 033

Minutes

1. Welcome, Attendance and Review of action items and approval of the previously distributed Minutes of the 2-9-18 Meeting (John van de Lindt)

Attendance:

Lesley Ewing (Coastal Engineering, Social Sciences and Policy, California Coastal Commission)

William Hansmire (Geotechnical Engineering, Parsons Brinckerhoff Inc.)

Farzad Naeim (Earthquake Engineering, University of California, Irvine) (Remote)

Catherine Petroff (Coastal Engineering, US Army Corps)

John van de Lindt (Wood Earthquake Engineering, Colorado State University)

Peter Vickery (Wind Engineering, Applied Research Associates)

Richard Woods (Geotechnical Engineering, University of Michigan)

Minutes of 2-9-18 were approved as distributed.

2. NSF Remarks (Joy Pauschke-departs at 2:15 PM)

Dr. Pauschke provided a retrospective look from NEES to NHERI and elaborated on the role of the NCO. The NIAC members followed up the remarks with a series of follow-up questions.

Question 1: How to keep the momentum of 3 years of investment at the end of the Year 5 agreement?

Response: Working on it internally and it is not ready yet, probably not too much longer.

Question 2: How to integrate social sciences with physical sciences?

Response: Pursuing this through several programs encouraging researchers to apply for funding: (i) Humans and the Built Environment, (ii) CONVERGE, (iii) Leap-High and other funding opportunities.

3. User Forum joint meeting (User Forum Representatives- Alamo Boardroom) (2:30 PM) Not attended by NCO

4. NCO Annual Report Highlights and NHERI Priorities in Y4 (Julio Ramirez, JoAnn Browning, Cheryl Ann Blain)

Julio Ramirez, JoAnn Browning and Cheryl Ann Blain provided the update and the slides are attached to the Minutes. The NIAC will provide specific recommendations in the annual report. The NCO will provide responses to be discussed at the next NIAC meeting.

5. NIAC Plans for Y4 (All)

a. Individual meetings with facilities at the Summer Institute. The NIAC has been holding individual meetings with the facilities after attending presentations on each one during the Summer Institute. The schedule of meetings is attached to the minutes.

b. Year 3 Report NIAC will begin work on the Year 3 report to the NCO.

6. Schedule of Meetings in Y4

Next meeting will be scheduled between now and the next Summer Institute. The meeting will be held via teleconferencing.

7. New Business

No new business.

8. Adjourn

Meeting adjourned at 4:00 PM CT





NHERI-NCO NHERI-Network Coordination Office CMMI-1612144

NIAC Update
Year 3 Activities and Plans for Year 4
June 7, 2019
San Antonio, Texas



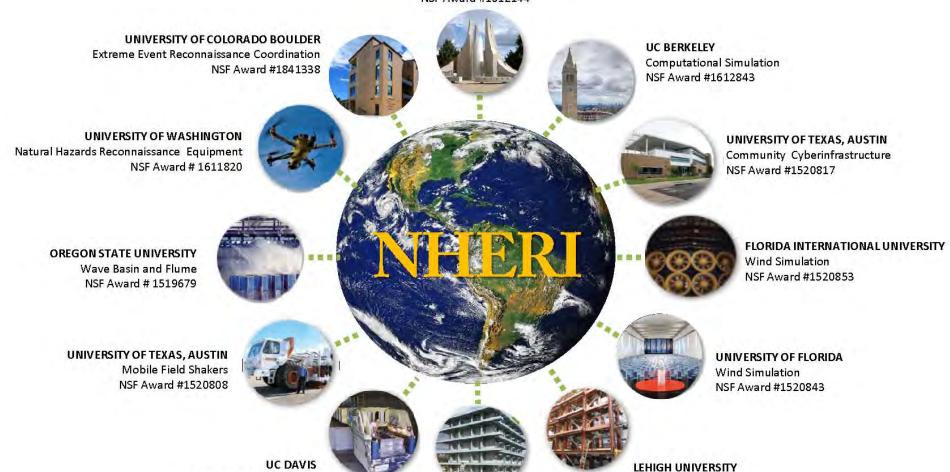
Geotechnical Centrifuges

NSF Award #1520581

NSF's Facilities/Programs

PURDUE UNIVERSITY

Network Coordination Office NSF Award #1612144



UC SAN DIEGO Large Outdoor Shake Table NSF Award #1520904 Hybrid Simulation NSF Award #1520765





NCO Governance and Operations







NCO Leadership Team



Julio Ramirez (PI)
Professor of Civil Engineering
Purdue University

Leadership Role and Expertise

- NCO Director
- Chair, NCO Strategic Committee
- Link to Lehigh (EF)



Antonio Bobet (Co-PI) Professor of Civil Engineering Purdue University

Leadership Role and Expertise

- Member, NCO Strategic Committee
- Leader for Geotechnical Engineering
- Link to User Forum



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)



Delong Zuo (Co-PI)
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



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





NCO Leadership Team



Cheryl 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



Thomas L. Smith
Architect
TLSmith Consulting Inc.

Leadership Role and Expertise

- Member, NCO Strategic Committee
- Leader in Wind Engineering and Architectural Practice
- Link to UW RAPID (EF)



William T. HolmesStructural Engineer, Private Practice
Oakland. California

Leadership Role and Expertise

- Member, NCO Strategic Committee
- Leader in Earthquake Engineering Structural Practice
- Chair of TTC



David R. JohnsonAssistant Professor of Industrial

Engineering and Political Science
Purdue University

Leadership Role and Expertise

- Member, NCO Strategic Committee
- Leader in Social Sciences and Policy
- Link to User Forum



Ian RobertsonProfessor of Structural Engineering
University of Hawaii, Manoa

Leadership Role and Expertise

- Member, NCO Strategic Committee
- Expert in Tsunami Research
- TTC Ex-officio NCO Member





Education & Community Outreach



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



Cheryl 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-GumpianAssistant Research Scientist
University of Texas at San Antonio

Leadership Role and Expertise

Education Specialist with ECO



Marti LaChance
Purdue University
Expertise

Communications Specialist



Lynn Holland
Purdue University
Expertise

Marketing Design



NSE

NCO Professional Staff at Purdue



Daniel Zehner

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)



Chris Thompson

Technology and Media Specialist Rosen Center, Purdue University

Leadership Role and Expertise

Publicize Research and Other Deliverables;
 Implement Software Tools in Partnership with
 Cyberinfrastructure Awardee





NCO Strategic Goals in Year 3

Community Leadership

- Fair and Effective Governance
- Science Plan Update and Dissemination
- International Partnerships
- Accelerate Transfer of Research to Practice

Coordination of NHERI Components

- Clear and Transparent Access
 Protocols
- Effective Training and Dissemination of Research Capabilities
- On time Scheduling
- Education and Community Outreach



Storm surge, Hurricane Fran, North Carolina 1996





Work with the NHERI Council

- Identify key metrics that show the value of NHERI to its users
- Promote re-use of Data
- Develop Next Generation of Leaders in the Field
- Disseminate impact of NHERI Work, and
- Accelerate Transfer of Research to Practice







NIAC Recommendations in Year 2

Facility Utilization

- Identify and implement separate mechanisms to monitor SimCenter and Rapid.
- Provide additional metrics such as early career faculty usage, simultaneous or repeat usage, etc.

Dissemination

- Advertise in magazines such as Civil Engineering.
- Write articles in journals and newsletters such as STRUCTURE (ASCE-SEI) and GEOSTRATA (Geo-Institute-ASCE).
- Publicize NHERI activities with functional leads of ASCE7 and other code and guidance writing groups.





NCO Response during Year 3

Facility Utilization

 Identify and implement network wide metrics to illustrate the value of NHERI to its users. For example, information on early career faculty usage, simultaneous or repeat usage, etc.

Dissemination

- Vigorous social media campaign and Podcasts.
- NHERI Newsletters and Weekly News Items.
- Activities of the Technology Transfer Committee.



NST

Technology Transfer Committee

WHO

- Volunteer practitioners and decision makers
- Experienced in contributing to the development of design guidelines, technical briefs, building codes and standards and technical seminars

WHAT

- Strengthen the tie between NHERI researchers and the implementers of NHERI-developed technology
- Review NHERI research results to identify findings that could immediately lead to improvements in the design process that will result in mitigation of risk due to natural hazards.



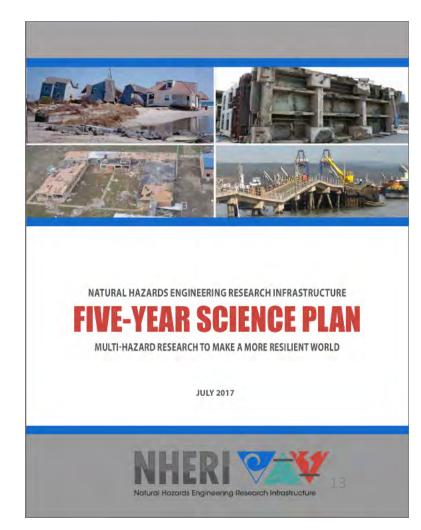


NHERI Science Plan Purpose

A 5-year 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 earthquakes, windstorms, and associated hazards (e.g., tsunami, surge, waves)
- Evaluate physical vulnerability of civil infrastructure and social vulnerability of populations in exposed communities
- Create technologies and tools to design, construct, retrofit, and operate sustainable infrastructure resilient to multiple hazards







NHERI Science Plan Dissemination

- Available at https://www.designsafe-ci.org/facilities/nco/science-plan/
- Prominently linked from DesignSafe's front page
- Promoted through
 - NHERI Quarterly Newsletter (Summer 2017) and Monthly Recaps (multiple)
 - NHERI Summer Institute and REU programs
 - Conferences (ASCE, ASCE/SEI, AGU, 13th ACWE)
- Use of NHERI facilities encouraged in solicitations for Engineering for Civil Infrastructure (ECI) program





NHERI Science Plan in Year 3

A living document to be updated and maintained

- NSF Workshop proposed for March 2019
 - How to integrate transformative technologies into NHERI research
 - Gain broader perspectives from decision-makers, practitioners, international research community, and social scientists
 - Engage creative thinkers from related disruptive fields
 - Science of team-science, bio-inspired design, advanced computation, data science, materials science, robotics, control theory, additive manufacturing
 - Aimed at growing convergent research, one of 10 Big Ideas for Future NSF Investments (NSF 17-065)
 - Identify topics for possible research campaigns
- 2nd Edition of Science Plan to be published July 2019





International Partnerships

- The Foundation
 EUCENTRE,
 European Centre
 for Training and
 Research in
 Earthquake
 Engineering
- HR Wallingford
 Research
 Laboratory on
 Tsunami and Storm
 Surge Research
 (under NSF review)









NHERI EF Access and Funding

- Access through NCO Centralized
 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
 - Industry



Research Team at OSU Facility – Dan Cox, OSU PI

Researchers and EF managers have indicated a positive experience with the Facility Scheduling Dashboard and protocol





PROJECTS IN NHERI*

Facility	NSF Funded Projects (Utilization Days)	Other Federal/State Agencies or Industry in NHERI Time	Projects in Non-NHERI Time
Oregon State University	17 (589)	2	1
UC Davis	15 (585)		1
UC San Diego	8 (472)		1
Lehigh University	24 (1413)		0
Florida International University	19 (463)		7
University of Florida	18 (391)	2	1
UT Austin	16 (439)		0
RAPID**	15 (257)		7
Total	132	4	18

^{*}Tracked by NCO from 2/1/2017 to 4/19/19



^{**}RAPID facility usage is from 9/1/18-4/19/19



ECO Committee – Strategy & Function



Karina Vielma **UTSA**, Chair



Mohammad Khosravi (UC Davis) & Elaina Sutley (KU)

User Forum







Arindam Chowdhury, Amal Elsaday, Carolyn Roberson Florida International University



Chad Kusko **Lehigh University**



Pedro Lomonaco & Dan Cox **Oregon State University**



Matt Schoettler **UC Berkeley**



Mary Carrillo, Srikanth Madabhushi **UC Davis**







University of Florida



(Rice)



UT Austin Shaker



Jamie Ellen Padgett Patricia Clayton Laura Lowes & Joseph Wartman **University of Washington**



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







Research Experiences for Undergraduates





Melody Trejo

Home university: California State University, Fullerton

NHERI EF sit/s: Lenigh University, ATLSS Engineering Laboratory

Faculty mentor: Dr. Spencer Quick

Graduate student mentor. Safv an Al-Subaihawi

Research project title: Resiliency of cladding systems for multi-hazards

Re: rarch paper: Paper-Melody Trejo.docx



Caleb Wegener

Home university. Humboldt State University

NHERI EF site: Florida International University - Wall of Wind

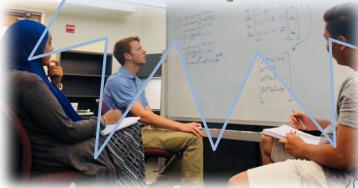
Faculty mentor: Dr. loannis Zisis

Graduate student mentor: Farzaneh Raji

esearch proje t title: And prive air and rudy on a full-scale model

Research paper: Paper-Caleb Wegener.docx

Development



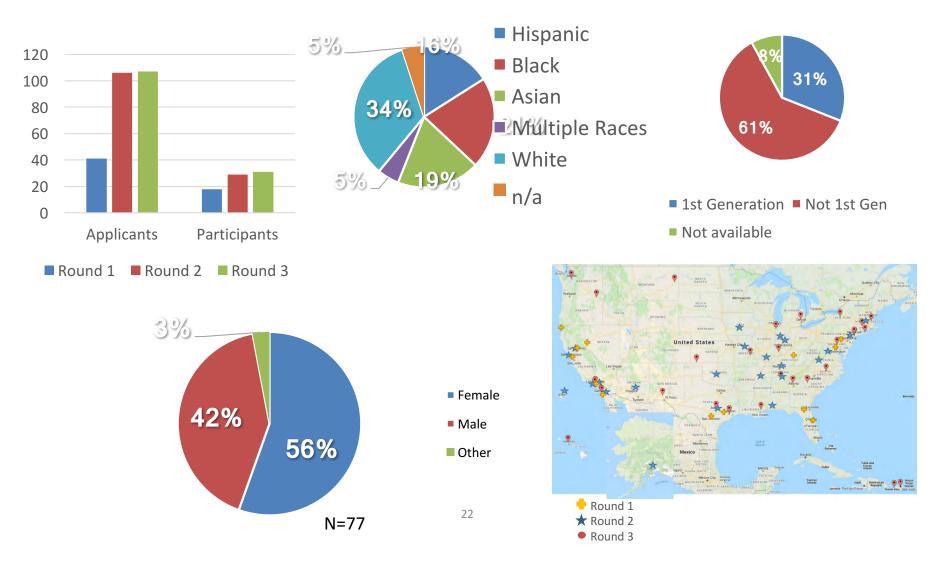






NSE

NHERI REU – Participants' Attributes







NHERI Summer Institute

Early Career pevelopment







Proposals

& Reflection



Community Building



NHERI crowd Teams Linked & Networked







NHERI science Plan & Assets



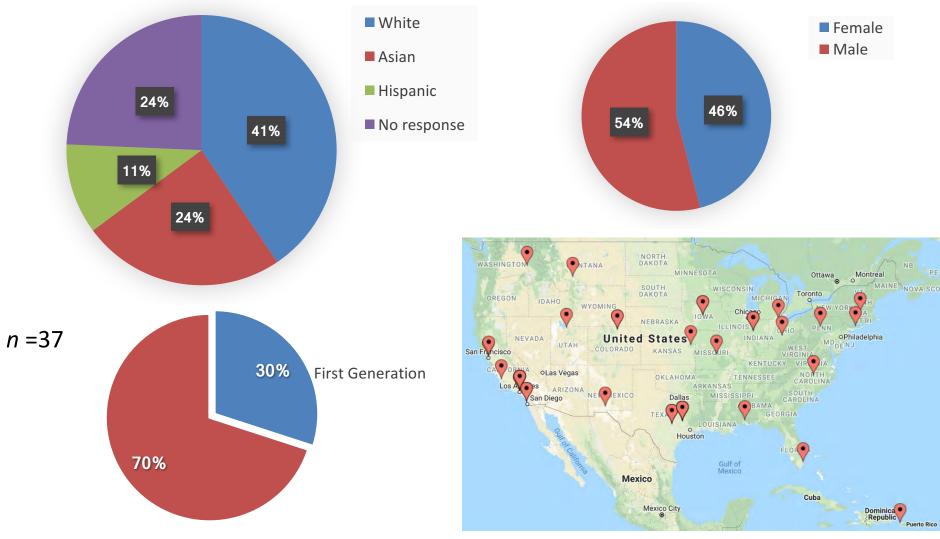
Contribute & Learn







NHERI SI – Participants' Attributes







NHERI Summer Institute

	NHERI Summer Institute Day 1		NHERI Summer Institute Day 1 Wednesday, June 5, 2019 NHERI Summer Institute Day 2 Thursday, June 6, 2019				NHERI Summer Institute Day 3 Friday, June 7, 2019			
Time	Wednesday, June 5, 2019 Description	Location	Time	Description Thursday, June 6, 2019	Location	Time	Description Description	Location		
8:00-8:30am	Breakfast	Riverwalk Room		Breakfast	Riverwalk Room	8:00-8:30am	Breakfast	Riverwalk Room		
8:00-8:30am	Registration Please sign in daily.	UTSA Downto Campus, Duran Building – Lob		Registration NHERI Experimental Facilities & Research Presentations	La Villita Room	8:00-8:30am	Registration Please sign in daily.	UTSA Downtov Campus, Durang Building – Lobb		
8:30-9:45am	Welcome & NHERI Overview Presenter: JoAnn Browning Dean, College of Engineering, University of Texas at San Antonio Following a welcome by the NCO-ECO lead, participants will learn about the NHERI network, receive an overview of the Summer Institute objectives, and share their goals for the event.	La Villita Roon		Florida International University University of Washington Lehigh University The University of Texas-Austin Oregon State University University of California-Davis University of California-San Diego University of California-Berkeley University of Florida University of Florida		8:30am-10:00pm	Broader Impacts Design Presenter: Karina I. Vielma Educational Specialist, University of Texas at San Antonio Participants will learn about the broader impacts design of a grant proposal and will engage in creating a project that links the proposed research with a meaningful outreach initiative.	La Villita Room		
9:45-10:15am	Coffee and Networking	Riverwalk Room		The University of Texas-Austin TACC		10:00-10:20pm	Networking Break	Riverwalk Room		
10:15am-	NHERI Science Plan Discussion	La Villita Roon		Networking Lunch	Riverwalk Room					
12:00pm	Presenter: Billy Edge Professor Emeritus, Texas A&M University Attendees will participate in an introduction, followed by a discussion of the NHERI Science Plan that addresses pressing research needs for the natural hazards community.		1:30-3:00pm	Social Science Research and Overview of CONVERGE CONVERGE, University of Colorado – Boulder Presenters: Lori Peek – Director, Natural Hazards Center & Professor, Department of Sociology, University of Colorado Boulder; Haorui Wu – Postdoctoral Research Associate, Natural Hazards Center, University of Colorado Boulder	La Villita Room	10:20-12:00pm	Proposal Working Meetings Attendees will collaboratively design a research proposal which incorporates NHERI experimental facility (EF), simulation center, cyber infrastructure, and RAPID resources as well as educational and social science components to engage the broader impacts of the proposed work.	La Villita Room		
12:00-1:00pm	Welcome Luncheon	Riverwalk Room		Networking Break Designing a NHERI Research Proposal	Riverwalk Room La Villita Room	12:00-12:45pm	Networking Lunch	Riverwalk Roon		
1:00-2:30pm	Grant Writing Workshop – Research 101 Presenter: Joy M. Pauschke	La Villita Roon		Facilitators: JoAnn Browning & Karina Vielma		12:45-2:00pm	Proposal Presentations	La Villita Room		
2:30-3:00pm	Program Director, National Science Foundation Coffee and Networking	Riverwalk Roo		Attendees will collaboratively design a research proposal which incorporates questions from the Science Plan as well as the use of NHERI experimental facility (EF), simulation center, cyber infrastructure, and RAPID resources. Representatives from NHERI sites will be available to answer specific questions about the use of the		2:00-2:30pm	Awards and Reflection	La Villita Room		
3-4:30pm	CAREER Award Workshop	La Villita		facilities and resources. This working meeting will help teams prepare their presentation for team research proposals.			NHERI Leadership Meetings			
	Presenter: Zhijian (ZJ) Pei Professor, Texas A&M University		4:30-5:00pm	NHERI and CAREER Awardee Panel Successful awardees will answer questions about the strategies,	La Villita Room	All Day	User Form Meeting	Alamo Boardroo		
120.500	D. 4. 1. 4. 1. 4.	Y YELL 15		communications, and planning that went into their proposal preparations.		1:30-4:30pm	NIAC Meeting	El Paseo A Roo		
4:30-5:00pm	Reflections and Day 1 Evaluations	La Villita Roon		NHERI User Forum Networking Event	Mi Tierra Café &	2:30-3:30pm	Joint User Forum and NIAC Meeting	Alamo Boardroo		
5:30pm	San Antonio Excursion	Meet in Durang		•	Bakery	3:00-4:00pm	ECO Committee Meeting	El Paseo B Roor		
	San Antonio Riverwalk – Go Rio Boat Tour	Building								



		NHERI Summer Institute Day 1 Wednesday, June 5, 2019	
4	Time	Description	Location
	8:00-8:30am	Breakfast	Riverwalk Roor
2	8:00-8:30am	Registration Please sign in daily.	UTSA Downtov Campus, Duran Building – Lobl
	8:30-9:45am	Welcome & NHERI Overview Presenter: JoAnn Browning Dean, College of Engineering, University of Texas at San Antonio	La Villita Roon Location Riverwalk Roon

Professor, Texas A&M University

Reflections and Day 1 Evaluations

San Antonio Riverwalk – Go Rio Boat Tour

San Antonio Excursion

4:30-5:00pm

5:30pm

Deam. College of Engineering, University of Texas at San Antonio Reveral Root Following a welcome by the NCO-ECO lead, participants will learn about the NHERI network, receive an overview of the Summer Institute objectives, and share their goals for the event. Picture and Networking Riverwalk Root Riverwalk Root Riverwalk Root Riverwalk Root Following a welcome by the NCO-ECO lead, participants will learn about the NHERI network, receive an overview of the Summer Institute objectives, and share their goals for the event. Riverwalk Root Following a welcome by the NCO-ECO lead, participants will learn about the NHERI network, receive an overview of the Summer Institute objectives, and share their goals for the event. Riverwalk Root Following a welcome by the NCO-ECO lead, participants will learn about the NHERI network, receive an overview of the Summer Institute objectives, and share their goals for the event. Riverwalk Root La Villia Root Riverwalk Root Riverw	0.50). 154	Programan I Am Promise	Eu viiita Roon 2			Friday, June 7, 2019			
Following a welcome by the NCO-ECO lead, participants will learn about the NHERI network, receive an overview of the Summer Institute objectives, and share their goals for the event. 9.45-10:15am Coffee and Networking Riverwalk Root 10:15am- 12:00pm Presenter: Billy Edge Professor Emeritus, Texas A&M University Attendees will participate in an introduction, followed by a discussion of the NHERI Science Plan that addresses pressing research needs for the natural hazards community. 12:00-1:00pm Welcome Luncheon Riverwalk Root Riverwalk Root Riverwalk Root Root		Presenter: JoAnn Browning		Location	Time				
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	2:30-3:00n	m Coffee and Networking	Riverwalk Root		•				
2:30-3:30pm Joint User Forum and NIAC Meeting Alamo Boardroo	2.50 5.00p	Conce and Meridian	Tar variation	Mi Tierra Café &	2:30-3:30pm	Joint User Forum and NIAC Meeting	Alamo Boardroo		
Bakery 3:00-4:00pm ECO Committee Meeting El Pasco B Room				Bakery	3:00-4:00pm	ECO Committee Meeting	El Paseo B Roon		
3-4:30pm CAREER Award Workshop La Villita	3-4:30pm	CAREER Award Workshop	La Villita						
Presenter: Zhijian (ZJ) Pei		Presenter: Zhijian (ZJ) Pei							

La Villita Roon

Meet in Durang

Building





-			indistary, built 0, 2017			
INC		Time	Description	Location		
TI I		7:30-8:00am	Breakfast	Riverwalk Roon	r	
N. P.	MHER NHER	7:45-8:00am	Registration			
		8:00-12:30pm	NHERI Experimental Facilities & Research Presentations	La Villita Room		
		_	Florida International University		NHERI Summer Institute Day 3	
	NHERI Summer Institute Day 1 Wednesday, June 5, 2019		University of Washington		Friday, June 7, 2019	
Time 8:00-8:30am	Description Breakfast		Lehigh University			P
			The University of Texas-Austin			
8:00-8:30am	Registration Please sign in daily.		Oregon State University			υ
			University of California-Davis		ı daily.	P
8:30-9:45am			University of California-San Diego		acts Design	ĭ
	Presenter: JoAnn Browning Dean, College of Engineering, University of Texas at Sa		University of California-Berkeley		arina I. Vielma	
	Following a welcome by the NCO-ECO lead, participan		University of Florida		Specialist, University of Texas at San Antonio	
	about the NHERI network, receive an overview of the Su objectives, and share their goals for the event.		The University of Texas-Austin TACC		will learn about the broader impacts design of a grant will engage in creating a project that links the 2arch with a meaningful outreach initiative.	
		12:30-1:30pm	Networking Lunch	Riverwalk Roon		
9:45-10:15am	Coffee and Networking	12.30-1.30pm	Networking Lunch	Kivei waik Koon	Break	P
10.15	NUMBER C DI . D	1:30-3:00pm	Social Science Research and Overview of CONVERGE	La Villita Room		
10:15am- 12:00pm	NHERI Science Plan Discussion Presenter: Billy Edge	· · · · · · · · · · · · · · · · · · ·	CONVERGE, University of Colorado – Boulder		rking Meetings l collaboratively design a research proposal which	L
	Professor Emeritus, Texas A&M University		Presenters: Lori Peek – Director, Natural Hazards Center &		NHERI experimental facility (EF), simulation center,	
	Attendees will participate in an introduction, followed by the NHERI Science Plan that addresses pressing resear.		Professor, Department of Sociology, University of Colorado Boulder;		ucture, and RAPID resources as well as educational ience components to engage the broader impacts of the	3
	natural hazards community.		Haorui Wu – Postdoctoral Research Associate, Natural Hazards		*k.	
			Center, University of Colorado Boulder			
12:00-1:00pm	1 Welcome Luncheon				Lunch	R
1.00.2.20	Cont. W. Stor. World to Donnel 101	3:00-3:15pm	Networking Break	Riverwalk Roon	(sentations	I
1:00-2:30pm	Presenter: Joy M. Pauschke					
	Program Director, National Science Foundation	3:15-4:30pm	Designing a NHERI Research Proposal	La Villita Room	Reflection	L
2:30-3:00pm	Coffee and Networking		Facilitators: JoAnn Browning & Karina Vielma			
2.50 5.00pm	Conce and Networking					
3-4:30pm	CAREER Award Workshop		Attendees will collaboratively design a research proposal which		lership Meetings	
	Presenter: Zhijian (ZJ) Pei Professor, Texas A&M University		incorporates questions from the Science Plan as well as the use of		leeting	Α
			NHERI experimental facility (EF), simulation center, cyber		g	F
4:30-5:00pm	Reflections and Day 1 Evaluations		infrastructure, and RAPID resources. Representatives from NHERI		orum and NIAC Meeting	A
			sites will be available to answer specific questions about the use of the facilities and resources. This working meeting will help teams prepare		, and the second	r
5:30pm	San Antonio Excursion San Antonio Riverwalk – Go Rio Boat Tour		their presentation for team research proposals.		tee Meeting	Е
			their presentation for team research proposals.			
		4:30-5:00pm	NHERI and CAREER Awardee Panel Successful awardees will answer questions about the strategies, communications, and planning that went into their proposal preparations.	La Villita Room		
		5:30-7:30pm	NHERI User Forum Networking Event	Mi Tierra Café &	5	
				Bakery		11
						41



Location Riverwalk Room

UTSA Downtow Campus, Durang Building – Lobb La Villita Room

Riverwalk Room

La Villita Room

Riverwalk Room

La Villita Room La Villita Room

Alamo Boardroo El Paseo A Roor

Alamo Boardroo El Paseo B Roon

NHERI Summer Institute Day 2 Thursday, June 6, 2019



8:00-8:30am

8:00-8:30am

8:30-9:45am

10:15am-

12:00pm

2:30-3:00pm

4:30-5:00pm

5:30pm

3-4:30pm

Breakfast

9:45-10:15am Coffee and Networking

12:00-1:00pm Welcome Luncheon

Registration

Please sign in daily.

Welcome & NHERI Overview

NHERI Science Plan Discussion

Presenter: Billy Edge

natural hazards community.

1:00-2:30pm Grant Writing Workshop - Research 101

Coffee and Networking

Presenter: Joy M. Pauschke

CAREER Award Workshop Presenter: Zhijian (ZJ) Pei

Professor, Texas A&M University

Reflections and Day 1 Evaluations

San Antonio Riverwalk - Go Rio Boat Tour

San Antonio Excursion

objectives, and share their goals for the event.

Professor Emeritus, Texas A&M University

Program Director, National Science Foundation

Presenter: JoAnn Browning

NHERI Summe

NHERI Summer Institute Day 1 Wednesday, June 5, 2019

Dean, College of Engineering, University of Texas at San Antonio

Following a welcome by the NCO-ECO lead, participants will learn

about the NHERI network, receive an overview of the Summer Institute

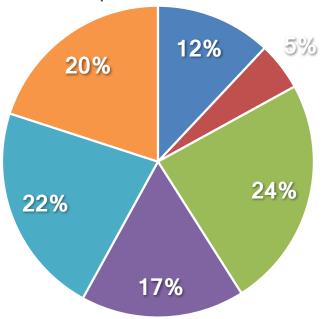
Attendees will participate in an introduction, followed by a discussion of

the NHERI Science Plan that addresses pressing research needs for the

			NHERI Summer Institute Day 3 Friday, June 7, 2019		
			Time	Description	Location
			8:00-8:30am	Breakfast	Riverwalk Roon
	MI	mer	8:00-8:30am	Registration Please sign in daily.	UTSA Downtow Campus, Durang Building – Lobb
Location Riverwalk Room	Time	NHi Description Breakfast	8:30am-10:00pm	Broader Impacts Design Presenter: Karina I. Vielma	La Villita Room
UTSA Downton		Registration		Educational Specialist, University of Texas at San Antonio	
Campus, Duran	1	NHERI Experimental F		Participants will learn about the broader impacts design of a grant	
La Villita Roon		Florida International Un University of Washington Lehigh University The University of Texas- Oregon State University University of California-		proposed research with a meaningful outreach initiative.	
Riverwalk Rooi	1	University of California- University of California- University of Florida The University of Texas-	10.00-10.20pm	Networking Break	Riverwalk Roon
v v ~		Networking Lunch	10:20-12:00pm	Proposal Working Meetings	La Villita Room
La Villita Roon	1:30-3:00pm	Social Science Research CONVERGE, University Presenters: Lori Peek – I Professor, Department of Haorui Wu – Postdoctora Center, University of Colo		Attendees will collaboratively design a research proposal which incorporates NHERI experimental facility (EF), simulation center, cyber infrastructure, and RAPID resources as well as educational and social science components to engage the broader impacts of the	
Riverwalk Rooi	3:00-3:15pm	Networking Break		proposed work.	
KIVCI WAIK KOOI	3:15-4:30pm	Designing a NHERI Res Facilitators: JoAnn Brow			
La Villita Roon	1	Attendees will collaborate incorporates questions from	12:00-12:45pm	Networking Lunch	Riverwalk Roon
Riverwalk Room	1	NHERI experimental faci infrastructure, and RAPII sites will be available to a facilities and resources. I their presentation for tear	12:45-2:00pm	Proposal Presentations	La Villita Room
La Villita	4:30-5:00pm	NHERI and CAREER A Successful awardees will communications, and plan		Awards and Reflection	La Villita Room
La Villita Roon	5:30-7:30pm	preparations.			
Meet in Durang Building	*	NHERI User Forum Ne		NAMED A 1 A 1	
				NHERI Leadership Meetings	
			All Day	User Form Meeting	Alamo Boardroo
			1:30-4:30pm	NIAC Meeting	El Paseo A Rooi
			2:30-3:30pm	Joint User Forum and NIAC Meeting	Alamo Boardroo
			3:00-4:00pm	ECO Committee Meeting	El Paseo B Roor

NHERI Summer Institute - Assessments





- Build community to collaborate
- Learn about other fields of research
- Write better proposals
- Supplement current research
- Learn about NHERI
- Network with other researchers

What goals did you accomplish at the NHERI Summer Institute?

Met people who could be potential collaborators, learned more about the facilities and the projects that go on there, improved knowledge of proposal writing.

I learned a considerable deal about the multiple NHERI sites that I did not know before...

The hands-on grant concept and educational curriculum activities really challenged me to think, work in an interdisciplinary team, and present ideas...It modeled a teaching approach that could even be effective in my classroom.

Network Coordination Office



Communications

NEWS

Feature Stories + News Releases

ROOM



93 articles

"Announce" Internal Newsletter

- Registration open: SimCenter Training in Natural Hazards Engineering, June 13-14 announce at designsafe-ci.org
- DEADLINE EXTENDED: Joint U of Florida & U of Washington NHERI workshop, May 23-24 announce at designsafe-ci.org
- SimCenter Programming Bootcamp, July 22 26, 2019 announce at designsafe-ci.org
- REMINDER: Wall of Wind EF User Workshop, June 14 announce at designsafe-ci.org o REMINDER: Wall of Wind EF User Workshop, June 14 announce at designsafe-ci.org
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- REMINDER: SimCenter Bootcamp travel assistance deadline is May 24 announce at designsafe-ci.org
- NHERI Annual User Satisfaction Survey announce at designsafe-ci.org

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Natural Hazards Weekly Newsletter



66 issues 200+ subscribers

Up 238%





54 episodes 2,299+ downloads



Communications & Social Media

EXTERNAL

COMMUNICATIONS

Master E-mail list:

470 subscribers

Publications referencing

NHERI: 118 Total

(68 journal publications; 33 conference publications; 17 other publications)





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Social Media

1000+ posts

Facebook

530 followers

Twitter

412 followers

Up 146%



5000 people reached



675 tweets

5,500+ impressions/month!

Up 157%





Multi-Site Social Media Presence

GOALS:

- Establish a social media presence for all 10 facilities
- Encourage active participation on social media platforms





Multi-Site Social Media Presence

GOALS:

- Establish a social media presence for all 10 facilities
- Encourage active participation on social media platforms

SUCCESSES:

- Create formal social media guidelines
 - Created NSF NHERI branded social media accounts
 - Require posting once a week to be considered "active"
- Share social media successes via news items and newsletters
- Emphasize that social media engagement is a high priority for NSF
 - @NSF, @NSF_ENG, #NSFfunded
- Encourage a web to social media model







Multi-Site Social Media Presence

Facility	Facebook	Twitter	Other
UT Austin	@NHERIatUTMobileShakers	@UTMobileShakers	
UC San Diego	@UCSD.NHERI	@NHERI_UCSD	
UC Davis			CGM Facebook Group
Lehigh University	@NHERILehighRTMD	@NHERILehighRTMD	
University of Florida			#ufNHERI
Florida International University			
Oregon State University		@NheriOsu	
NHERI SimCenter	@NHE.SimCenter	@NHE_SimCenter	
RAPID	@RAPIDNaturalHazardsRecon	@NHERI_RAPID	
NHERI NCO	@NaturalHazardsEngineeringResearc hInfrastructure	@NHERI_NCO	
CONVERGE		@NHERI_CONVERGE	





NCO Key Activities in YEAR 4

Lead a vibrant multi- hazard community of users

- Lead and coordinate the activities of the governance groups of NHERI
- Workshop with TTC and NHERI Researchers to further refine the evaluation of projects to support efforts to expedite transfer from research to practice
- Coordinate and support newest NHERI Facility: "CONVERGE", PI: Prof. Lori Peek from UC Boulder
- Strengthen International Partnerships
- NHERI beyond 2021

Enable world-class research

- Identify and implement network wide metrics to show value of NHERI to users
- Provide oversight and coordination to the scheduling of existing and new users of the NHERI experimental facilities
 - Schedule of RAPID Facility as of September, 2018
 - Complete site visits
 - Share lessons learned and complete tactical planning cycle

Lead and organize educational and community outreach activities

- Lead and coordinate the REU program
- Organize the Summer Institute
- Broadly disseminate the Impact of NHERI
- Develop NHERI Impact Publication







THE NHERI NETWORK IS SUPPORTED BY MULTIPLE GRANTS FROM THE NATIONAL SCIENCE FOUNDATION.







NCO Education and Community Outreach Report

June 21, 2019

ECO Committee

- Met after Summer Institute, June 7th at 3pm
- Priority discussions
 - Next Summer Institute date & details
 - Difficult to find the best summer date for Quarter System
 - Possibly: Previous awardees present research and how they obtained use of facility(ies)
 - More to come!
 - Critical participant reflections
 - 1 person mentioned it was difficult to work with such diverse teams, and that social science should not be required.
 - Collaborative teams: goal of the Summer Institute! This is the opportunity to get out of comfort zone in safe environment
 - Liked suggestion to Learn and do=hear from a presenter and practice preparing that section of the proposal just learned. A little more structured





I appreciated a lot the CAREER award, the NSF, and the Broad Impact presentations because they gave me a lot of good information and tips, which I was not aware before attending the Summer Institute. I liked the hands-on experience of the Broad Impact presentation because it helped me to understand the meaning of broad impact.

Summer Institute Report

The summer institute has been a great experience. I feel the NHERI has connected us as a research community in natural hazard engineering. It provides many valuable networking opportunities for junior researchers to get connected and learn from many experts in

the field.

Previous I had little idea about social scientist. I didn't know what kind of research they were doing and how they could relate to civil engineering. But after this institute, I did learn a lot on this topic, especially how they can benefit our research.

Network Coordination Office

REU Report

- REU 1 began May 28th; REU 2 began June 17th
- Students and mentors meeting individually with Karina
- REU attending Natural Hazards
 Workshop & Researchers Meeting
 July 16-18, 2019
 - 16 students presenting research posters on July 17th
 - Students will attend NHERI session
 & Bar-B-Q





THE NHERI NETWORK IS SUPPORTED BY MULTIPLE GRANTS FROM THE NATIONAL SCIENCE FOUNDATION.



Schedule of 30-minute Individual Meetings – Summer Institute, San Antonio, TX NHERI Network Independent Advisory Committee and Facilities Paseo A Room

Facility	Representative	Date	Time
UC San Diego- Large Outdoor Shake Table	Ozgur Ozcelik	June 6	1:00 to 1:30 PM
University of Texas, Austin- Mobile Lab	Tricia Clayton	June 6	1:30 to 2:00 PM
University of Washington- RAPID and UC Berkeley- SimCenter	Laura Lowes	June 6	2:00 to 3:00 PM
Florida International University- Wind Simulation	Arindam Chowdhury	June 6	3:00 to 3:30 PM
Lehigh University- Hybrid Simulation	Liang Cao	June 6	3:30 to 4:00 PM
University of Florida- Wind Simulation	Forrest Masters	June 6	4:00 to 4:30 PM
University of Texas, Austin- DesignSafe-Cl	Tim Cockerill	June 7	10:00 to 10:30 AM
University of Colorado, Boulder- CONVERGE	Lori Peek	June 7	10:30 to 11:00 AM
UC Davis- Geotech Centrifuges	Ross Boulanger (Remote Participation)	June 7	11:00 to 11:30 AM
Oregon State University- Wave Basin and Flume	Pedro Lomonaco	June 7	11:30 AM to Noon

Membership NIAC Year 3

Lesley Ewing (Coastal Engineering, Social Sciences and Policy, California Coastal Commission)

William Hansmire (Geotechnical Engineering, Parsons Brinckerhoff Inc.)- Vice Chair

Farzad Naeim (Earthquake Engineering, University of California, Irvine)

Catherine Petroff (Coastal Engineering, US Army Corps)

John van de Lindt (Wood Earthquake Engineering, Colorado State University)- Chair

Peter Vickery (Wind Engineering, Applied Research Associates)

Richard Woods (Geotechnical Engineering, University of Michigan)