

Education and Community Outreach Committee

April 27, 2021 – 3:00 pm Central Time via Zoom

<https://utsa.zoom.us/j/9013659006>

1. Attendance

Chad Kusko (*Lehigh University – ATLSS*), Kurtis Gurley (*University of Florida – Powell Lab*), Lindsay Carroll (*Oregon State University – HWRL*), Scott Brandenburg (*UCLA – DesignSafe*), Erik Salna (*Florida International University – Wall of Wind*), Trevor Carey (*University of California – Davis, CGM*), Melissa Villarreal (*University of Colorado, Boulder – CONVERGE*), Lelli Van Den Eiden (*University of California, San Diego – LHPOST*), Tricia Clayton (*University of Texas, Austin – Mobile Shakers*), Matt Schoettler (*University of California, Berkeley – SimCenter*), Laura Lowes (*University of Washington – RAPID*), Karina Vielma (*University of Texas, San Antonio – NHERI ECO*), Robin Nelson (*University of Texas, San Antonio – NHERI ECO*)

2. Approved ECO Meeting Minutes (February 23, 2021 & March 31, 2021)

3. ECO Updates

- February & March minute approval
- ECO REU calendar & module approval, Moodle users
- Summer Institute schedule approval & sign-up
- NSF NCO site visit dates
- ECO May & June meeting doodle polls

4. NHERI REU

ACTION ITEM: [REU Calendar](#)

Attached is the proposed NHERI ECO REU Calendar, or click the link above. Please review and let me know any dates that need to be changed or added.

NHERI important dates:

- Block 1 June 2 – August 10, 2021
- Block 2, June 14 – August 20, 2021
- NHERI REU Research Symposium at UTSA: August 9-10, 2021

REU Acceptance: Currently, the NHERI REU program has 27 in the 2021 cohort. This number may change.

[REU CONVERGE Module](#)

After Melissa explained some of the modules to the ECO Committee, many members suggested that the REU students complete the [Cultural Competence in Hazards and Disaster](#). We would then allow REU student to select another module that they would also like to take. Scott Brandenburg suggested that we also allow social science students the chance to learn about how engineers conduct research and offered the StEER modules as an example:

<http://www.geerassociation.org/geer-activities/short-courses>.

ACTION ITEM: *REU Moodle*

The ECO will be setting up the NHERI REU Moodle account for 2021. This year our Moodle account will be hosted by TACC, and we are not limited in the number of individuals that may have access. Please email the ECO a list of individuals you would like to access Moodle (mentors, PI's, ECO members, etc.).

5. NHERI Summer Institute

Originally, the ECO invited 21 individuals to the Summer Institute. Two declined the offer due to the unavailability of vaccination in British Columbia and/or having immune suppressed individuals in their home. A third individual may need to decline the offer due to the COVID travel requirements between Texas and Puerto Rico. All three individuals plan to attend the Summer Institute in person. Currently, there are 18 in-person Summer Institute participants.

Also, we are still working through the approval process with UTSA for the in-person portion of the event. We have every confidence that the NHERI Summer Institute will be a hybrid event, June 16-17, 2021.

All NHERI and NSF presenters will stream their sessions in PheedLoop using my UTSA Zoom account. Each presentation will be recorded and posted on PheedLoop along with additional on-demand content (i.e., videos, PPTs, research posters, schedule, etc.) for all registered virtual and in-person attendees. Finally, multiple NHERI Networking sessions will be held through-out the workshop for in-person and/or virtual attendees. Please see the NHERI Summer Institute Site Representative Sign-up below for more information.

[NHERI Summer Institute Itinerary](#)

Attached is the NHERI Summer Institute Itinerary, or click the link above. A draft of the NHERI Summer Institute Itinerary was shared with Julio. The NHERI ECO Committee accepted and finalized the itinerary.

ACTION ITEM: [NHERI Summer Institute NHERI Site Representative Sign-up](#)

Attached is the NHERI Summer Institute NHERI Site Representative Sign-up, or click the link above. The sign-up lists each time a representative from your site is needed and explains the purpose. These sessions may be group presentations or individual private Zoom meetings. Please let me know how your site would like to

handle this and we will make it happen. You will use your representative's Zoom link for this event.

We will have attendees sign-up for these times in Eventbrite or PheedLoop and will work to ensure they attend. Some of the times have been specified for in-person attendees only and other times are open for both virtual and in-person attendees. Please see the sign-up below for more information. If you have difficulty accessing any of the linked documents, please email Robin Nelson for a hard copy. Please provide a site representative for each time slot.

6. NSF NCO Site Visit:

The NCO wanted to let the ECO know that they will have their 2021 NSF Virtual Site Visit on May 17-18, 2021.

7. New Business

ACTION ITEM: Please take the [May Doodle Poll](#) to set the day and time for the next NHERI ECO Committee Meeting. Please also take the [June Doodle Poll](#). If you feel we can accomplish our tasks via email, please input your name and leave the time slots unchecked and submit.

8. Site Presentations:

SimCenter presented their NHERI ECO Broader Impacts and Educational Outreach at this week's meeting. Matt had some great ideas and educational apps! Please check out his PPT below.

9. Adjourn

ECO Objectives

Engage and inform the NHERI community about SimCenter products and activities

Activity	Students	Faculty / Researchers	Broader Community
User Workshops			
NHERI Summer Institute			
Presentations at technical conferences and meetings			
SimCenter Newsletter			
Social Media			
State of the Art in Computational Simulation for NHE report			
Citizen Science Outreach			

ECO Objectives

Promote use and further development of SimCenter products through education and training

Activity	Students	Faculty / Researchers	Broader Community
Webinars	Green	Green	Green
SimCenter Training in NHE (Tool Training workshop)	Green	Green	Light Blue
Programming Bootcamp	Green	Green	Light Blue
Educational Apps	Green	Green	Light Blue
REU Program	Green	Light Blue	Light Blue
Classroom support for tool use	Green	Green	Light Blue
Testbeds	Light Blue	Green	Green
SimCenter Forum as a community meeting place for ideas and feedback	Light Blue	Green	Green
Office Hours	Green	Green	Light Blue

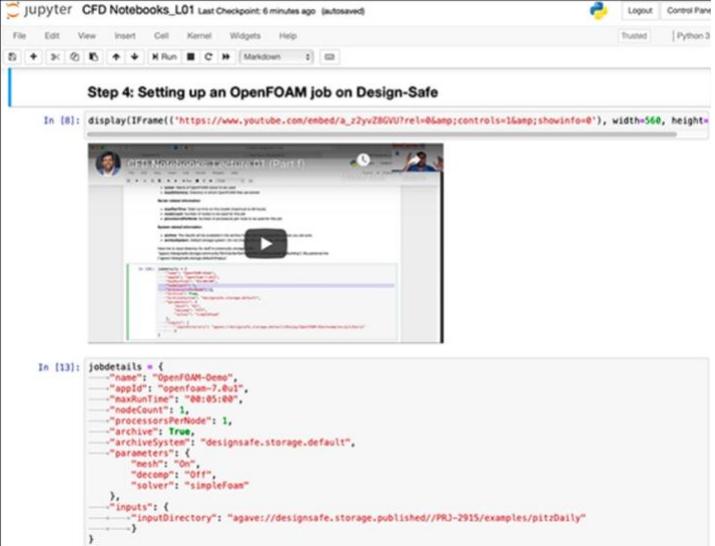
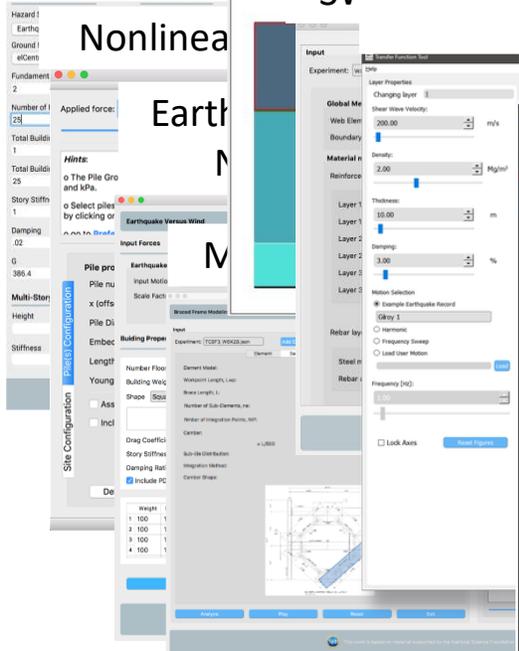
ECO Objectives

Promote use and further development of SimCenter products through education and training (Continued)

Proposed Renewal Activities	Students	Faculty / Researchers	Broader Community
Summer Hackathon	■		
Internships in data collection and curation for Testbeds and software testing	■		
Online course modules	■	■	
Biennial meeting	■	■	■
On-site visiting researcher program		■	
Working groups to help guide development efforts		■	■
Promote and partner in blind prediction contests	■	■	

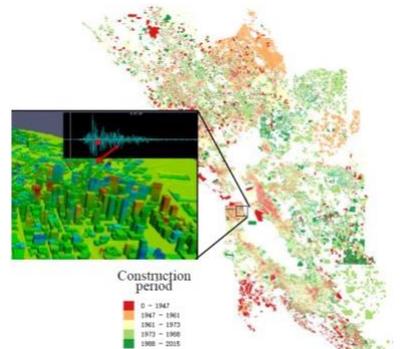
Educational Apps

Nonlinear Earthquake Analysis of Multi-Storey Buildings
S3HARK: site-specific seismic hazard analysis and research kit
SWIM: Shear Wall Intelligent Modeling
Transfer Function Tool
CFD Notebooks

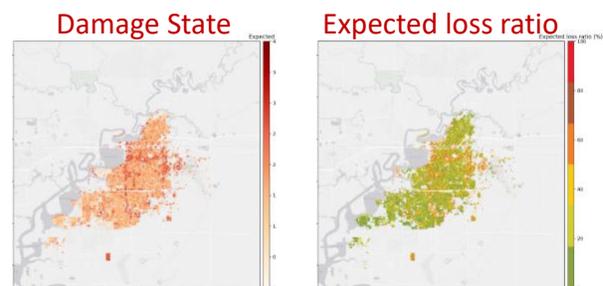


Testbeds

- Demonstration of SimCenter's Application Framework
- Engage users and strengthen community.
- Generate research ideas and fill gaps.
- User community
 - Employs existing products
 - Continues improvement and development of products
 - Encourages collaboration between users
 - End-user engagement



1.8 million buildings in SF Bay Area



Hurricane Laura Testbed

