

LARGE FACILITIES WORKSHOP - 2021 WEBINAR SERIES

April 07, 2021 / 11:00 AM EST

LEARN MORE

The Role of Communications, Education and Public Outreach During and After COVID-19

Session Moderator: Tim Spuck

Director of Education & Public Engagement tspuck@aui.edu



NATIONAL HIGH AGNETIC FIELD LABORATORY

LIEDINGAMORA

The National High Magnetic Field Laboratory is supported by National Science Foundation through NSF/DMR-1644779 and the State of Florida.









NATIONAL HIGH MAGNETIC FIELD LABORATORY

- CARLOS R. VILLA
 - DIRECTOR OF K-12 EDUCATION PROGRAMS





VIDEO CONTENT FILLED A GAP DURING COVID

AS COVID-19 SHUTTERED SCHOOLS, DEMAND FOR MAGLAB VIDEOS GREW:

- FROM MARCH 1, 2020 THROUGH JUNE 1, 2020:
 - 7.2 MILLION IMPRESSIONS
 - 14% HIGHER THAN THE SAME PERIOD IN 2019
 - 24% HIGHER THAN THE FIRST QUARTER OF 2020
 - 507,000 VIEWS
 - 13% HIGHER THAN SAME PERIOD LAST YEAR
 - 40% HIGHER THAN FIRST QUARTER OF 2020
 - 17.5K HOURS OF WATCH TIME
 - 9% HIGHER THAN SAME PERIOD LAST YEAR
 - 41% HIGHER THAN FIRST QUARTER OF 2020



NATIONAL HIGH MAGNETIC FIELD LABORATORY

AS COVID-19 CHANGED WHERE PEOPLE GET THEIR INFORMATION, DEMAND FOR MAGLAB ONLINE CONTENT GREW:

- NEARLY 50,000 PAGEVIEWS IN A ONE-WEEK PERIOD (APRIL 26-MAY
 2) OUR HIGHEST AMOUNT OF WEEKLY WEB TRAFFIC EVER.
- 182,000+ TOTAL PAGEVIEWS FOR APRIL 2020, 24% HIGHER THAN APRIL 2019 AND THE HIGHEST TRAFFIC MONTH EVER.
- 9 OF TOP 10 PAGES WERE MAGNET ACADEMY (THE OTHER WAS THE HOMEPAGE!)



NEW VIRTUAL EXPERIENCES

The COVID-19 pandemics created an opportunity for New Experiences.

- CURRENTLY OFFERED:
 - SUMMER EXPLORATION SERIES (SUBSTITUTE FOR 2020 SUMMER CAMPS)
 - VIRTUAL MENTORSHIPS (MIDDLE & HIGH SCHOOL LEVEL)
 - MAGLAB SCIENCE NIGHT ONLINE
 - VIRTUAL OPEN HOUSE
 - VIRTUAL CLASSROOM OUTREACH & TOURS
- COMING SOON:
 - RET, REU, & SUMMER CAMPS



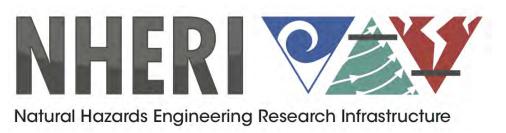




Robin Nelson



University of Texas at San Antonio





PURDUE UNIVERSITY

Network Communication Office NSF Award #1612144



CONVERGE

Social science/interdisciplinary resources NSF Award ##1841338



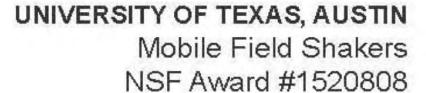
RAPID

Post-disaster Research NSF Award #1611820



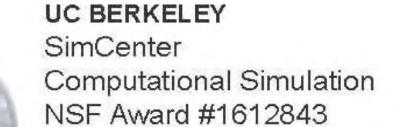
O.H. Hinsdale Wave Research Laboratory Wave Basin and Flume NSF Award #1519679





UC DAVIS Geotechnical Centrifuges





UNIVERSITY OF TEXAS, AUSTIN DesignSafe

Community Cyberinfrastructure NSF Award #1520817

LEHIGH UNIVERSITY

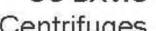
Large-Scale Multi-Directional Hybrid Simulation Testing NSF Award #1520765



Wind Experimental Facility Wind Simulation NSF Award #1520843



Wall of Wind International Hurricane Research Center Wind Simulation NSF Award #1520853



NSF Award #1520581



Large High-Performance Outdoor Shake Table NSF Award #1520904



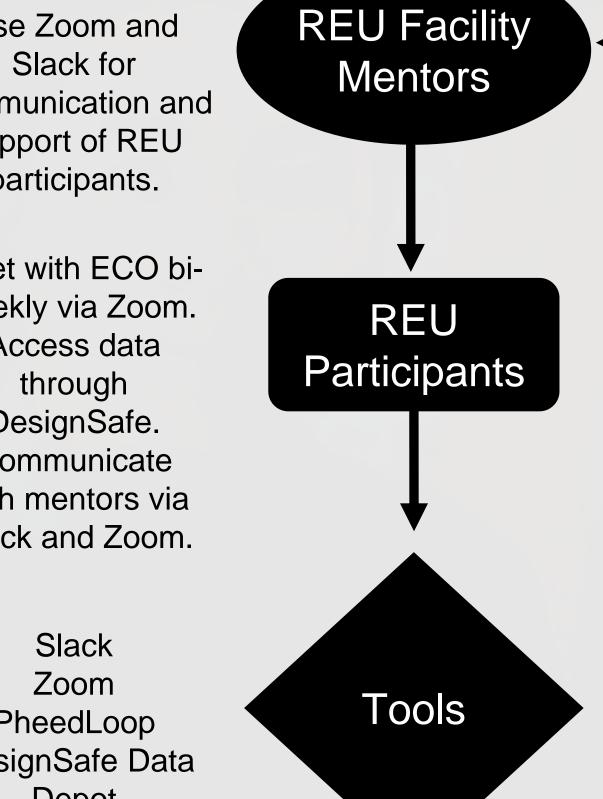


NHERI REU Summer Program NHERI Early-Career Summer Institute

Use Zoom and Slack for communication and support of REU participants.

Meet with ECO biweekly via Zoom. Access data through DesignSafe. Communicate with mentors via Slack and Zoom.

Slack Zoom PheedLoop DesignSafe Data Depot

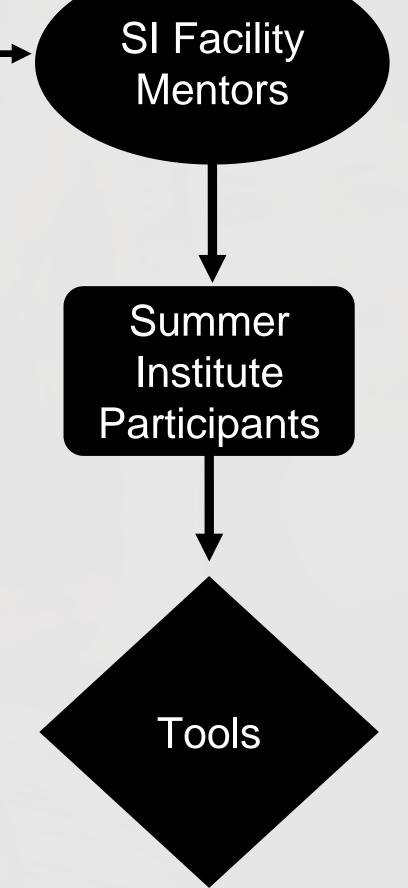


Facility Representatives

Education and Community Outreach

NHERI

Form ECO Committee and develop creative solutions to COVID challenges and share information between ECO and Facility PI to ensure effective communication.



Use presentations and workshops and Zoom mentoring and networking.

Attend workshop in a hybrid or virtual format. PheedLoop provides access to all content and links for virtual presentations and networking.

> Zoom PheedLoop





Regional Class Research Vessel (RCRV) Program

Oregon State University

- Lead Institution
- Operating Institution, #1 R/V Taani

University of Rhode Island

- Graduate School of Oceanography
- Operating Institution, #2 R/V TBD

Louisiana University Marine Consortium

- University Southern Mississippi
- Operating Institution, #3 R/V Gilbert R Mason



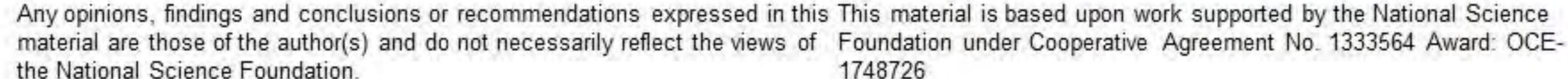












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Public Awareness of RCRV + Associated Careers

Ocean Classroom Live (GSO)





"Forging the Future of Science" (77th Parallel)

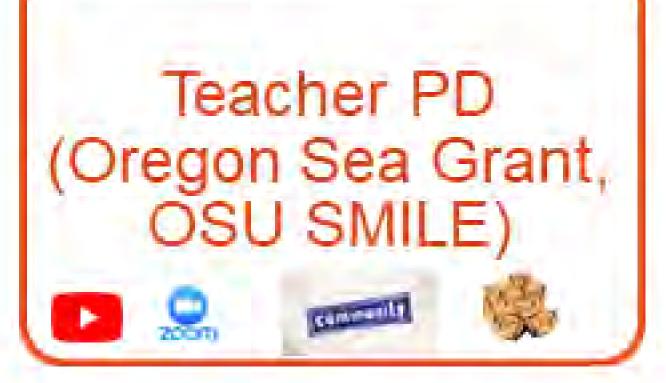
Researcher Professional Development

Oregon Marine Scientist Alliance (Oregon Sea Grant)



Educator Professional Development + Student Engagement

Create Events
(OSU SMILE,
Oregon Sea Grant)





Pre-COVID In-Person Tours

- Site open to the public 363 days of the year
 - Visitor Center
 - 23 min documentary
 - Orientation videos/exhibits
 - Self-guided walking tour
 - Guided Tours
 - 1st & 3rd Saturdays
 - Fall & Spring Open House



20,000+ visitors per year!



Self-Guided Walking Tour Path





Guided Tour Locations





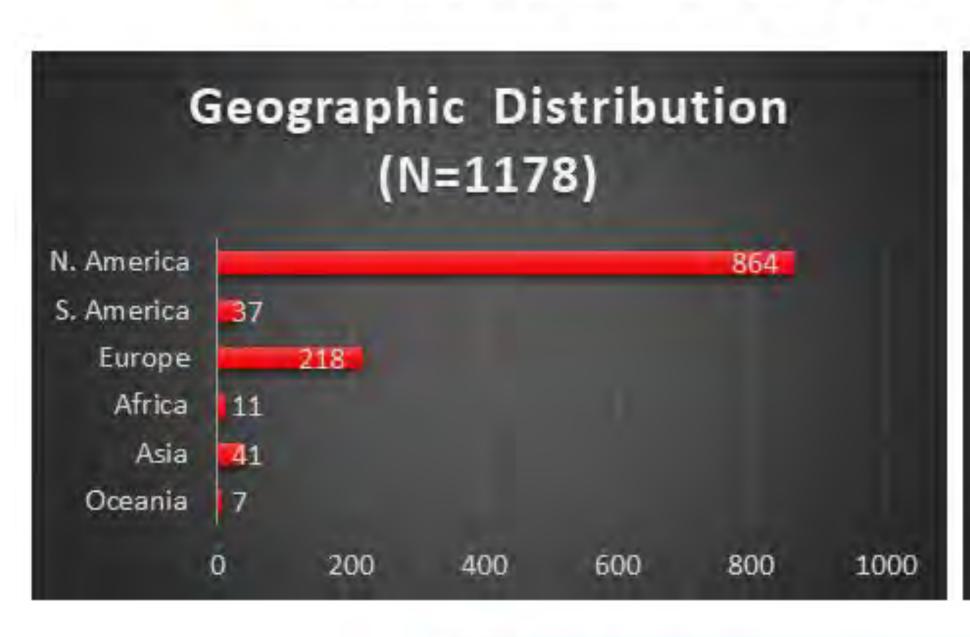
Pivot to Virtual VLA Tours

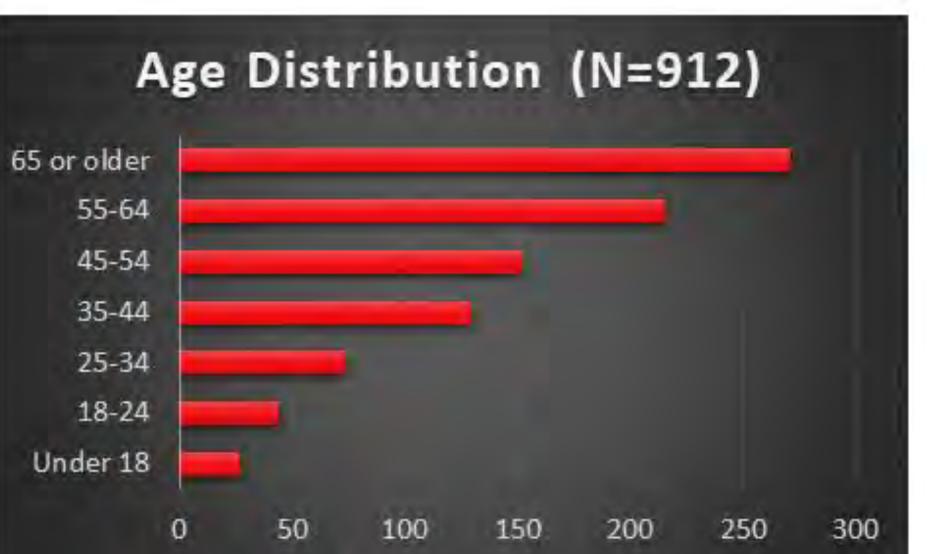
- Zoom recreation of our in-person tours
 - History and VLA basics
 - Normally held in VC auditorium, now via powerpoint
 - Augmented with videos from our VLA Explorer website feature
 - Meet the operator
 - Normally a touring of the Control Building, now inviting operators to be guest speakers
- Virtual Tours began monthly in August 2020
 - 4 STEAM Ed staff, 1 telescope operator
 - Video segments of places off limits to the public
 - LOTS of opportunities for Q&A



Pivot to Virtual VLA Tours

- 5 Virtual VLA Tours (Aug Dec 2020)
 - Attendance: 200-1400* ppl, #Qs: ~100 avg





2500+ virtual visitors to the VLA



Expansion to Themed Virtual Tours

3 Themed Virtual Tours (Jan – Mar 2021)

| Themed Tours | Attendance | Countries |
|---------------------|------------|-----------|
| ALMA | 161 | 31 |
| VLBA | 173 | 30 |
| ngVLA | 173 | 26 |

- More guest speakers
 - Highlighting range of staff at these facilities
 - Humanizing scientific process
 - Providing expertise
- Tours averaging: 169 attendees from 29 different countries!



Lessons Learned from Virtual Tours

- Initially began as a way to serve the audience we were used to reaching
- Expanded to reach a much wider audience
 - International
 - Astronomy experts to novices
- Plan to continue virtual offerings after reopening the site
 - One per quarter

"Thanks for the effort that went into this. It was great to see the passion of the people who work on the VLA."

I think you're doing a great job in keeping the VLA somehow "accessible" to the general public under the very difficult circumstances currently given."







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Peter Michaud Education and Engagement Manager NOIRLab



LIVEfrom NOIRLab









Community



Globe at Night



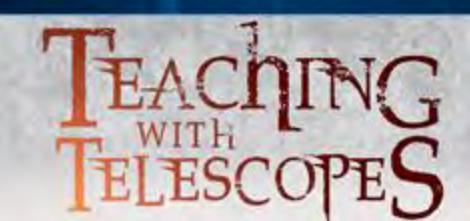


Star Educators













Tohono O'odham Engagement