

NHERI Council Monthly Meeting No. 9, Y-8
March 7, 2024 2:00 – 3:00 PM, Eastern (11:00 to Noon, Pacific)

NHERI Council Meetings

Title: NHERI Council - Spring 2024

Location: <https://DesignSafe-ci.zoom.us/j/91630249279>

When: March 7, 2:00 to 3:00 PM Eastern

Attending:

- Oregon State University: Dan Cox (EF Dir.) and Pedro Lomonaco (Fac. Dir.) Hinsdale
- University of California, Berkeley: Matt DeJong (Co-Dir.), and Matt Schoettler (Assoc. Dir. – Ops), Stanford University: Greg Deierlein (Co-Dir), SimCenter
- University of California, Davis: Jason DeJong (EF Dir) and Dan Wilson (Assoc. Dir.) CGM
- University of California, San Diego: Joel Conte (EF Dir.,) LHPOST
- University of Colorado Boulder: Lori Peek (Dir., CONVERGE)
- University of Florida: Jennifer Bridge (EF Dir. and Council Chair) Powell Lab
- University of Texas at Austin: Ellen Rathje (CI Dir.) and Tim Cockerill (Dep. Proj. Dir.) DesignSafe-CI
- University of Texas at Austin: Ken Stokoe (EF Dir.), Tricia Clayton (CoPi), and Sungmoon Hwang (syongmoon@utexas.edu) (Operations Manager) Texas Mobile Equipment Facility
- University of Washington: Joe Wartman (EF Dir. and Council Vice-Chair) and Jeff Berman (CoPI and Fac. Manager) RAPID
- National Science Foundation: Joy Pauschke (Prog. Dir, NHERI)
- Purdue University: Julio Ramirez (NCO Dir., Council Secretary), JoAnn Browning (NCO ECO Leader), and Dan Zehner (NCO Sch./Ops. Coord.)
- Florida International University: Arindam Chowdhury (EF Dir.), Ioannis Sizis (CoPI) and Steve Diaz (Site Operations Manager) WOW
- Lehigh University: Jim Ricles (EF Dir.), Liang Cao (lic418@lehigh.edu), Joe Saunders, (Facility Manager)
- Guests: Kirsten Ruiz (kruiz@nsf.gov), Senior Associate, Research Infrastructure Office, National Science Foundation

Minutes

1. (5 min) Attendance and introductions (All)



Guests: Kirsten Ruiz (kruiz@nsf.gov), Allison Reilly (areilly2@umd.edu), UMD

2. (5 min) Review and Approval of Minutes of 2/08/24 Meeting No. 8 in Y-8 (Joe Wartman.)

Minutes were approved as distributed. Joel moved and Ellen seconded the motion to approve them. The Minutes were approved as distributed without objection.

Approved Minutes posted at: <https://www.designsafe-ci.org/facilities/nco/governance/nheri-council/>

3. (35 min) Old Business –

a. Summit 2024 Activities

- i. Update Summit 2024 May 14-15, 2024 College Park, MD (Dan Cox, Jennifer Bridge, and Julio Ramirez, 15 min)

Dan reviewed the status of the program for the Summit (<https://www.designsafe-ci.org/natural-hazards-engineering-research-summit/2024/overview/>). The program is essentially completed. Julio reviewed the status of the Supplement request and applications for travel grants. He also reminded the Council of the two types of travel grants that would be available to early-career researchers, the general for up to \$1300/travels in reimbursement and local travel grants for up to \$200/participant. Allison Reilly, Summit co-chair for UMD, reviewed the status of the space and facilities for the Summit. Jennifer Bridge will send out an e-mail to the Council to encourage them to have displays about their respective facilities.

b. Discussion of data publishing efforts at the EFs (Ellen Rathje- 10 min)

Ellen noted that she will be contacting EFs to ask that they support (push) data uploading for researchers. Discussion also addressed data from other researchers that are relevant to hazards research are not generated by hazards research are being uploaded. The DOI and dissemination are major reasons for this upswing in data archived in DesigSafe DataDepot.

c. Topics for discussion in 2024

i. Additional topics (Joe Wartman- 10 minutes)

Joe Wartman will follow up on best practices for data collected during post-event missions at a future meeting

4. (10 min) New Business-

a. Introduction of Kirsten Ruiz, Senior Associate, Research Infrastructure Office, National Science Foundation, kruiz@nsf.gov (Joe Wartman, Kirsten Ruiz, 10 min.)

The Council welcomed Kirsten Ruiz, Senior Associate, Research Infrastructure Office. Florence Rabanal occupied this role previously. Her presentation has been attached to the Minutes.

5. Adjourn

Ellen moved to adjourn and Matt DeJong seconded the motion to adjourn at 3:00 PM ET



Background

BS, Ecology, Ethology, Evolution from
University of Illinois Urbana-Champaign

MBA from University of Colorado-Denver

PMP® Certification

15+ years at National Ecological
Observatory Network (NSF-BIO funded
major facility)

10+ years animal welfare

3 years juvenile corrections





NEON v NHERI

Built Environment

Test innovative ideas for mitigating damage from earthquakes, windstorms, tsunamis and related water hazards.



Natural Environment

Monitor critical ecological and environmental properties at multiple spatial and temporal scales.





National Ecological Observatory Network





NEON Design

In-Situ Instruments

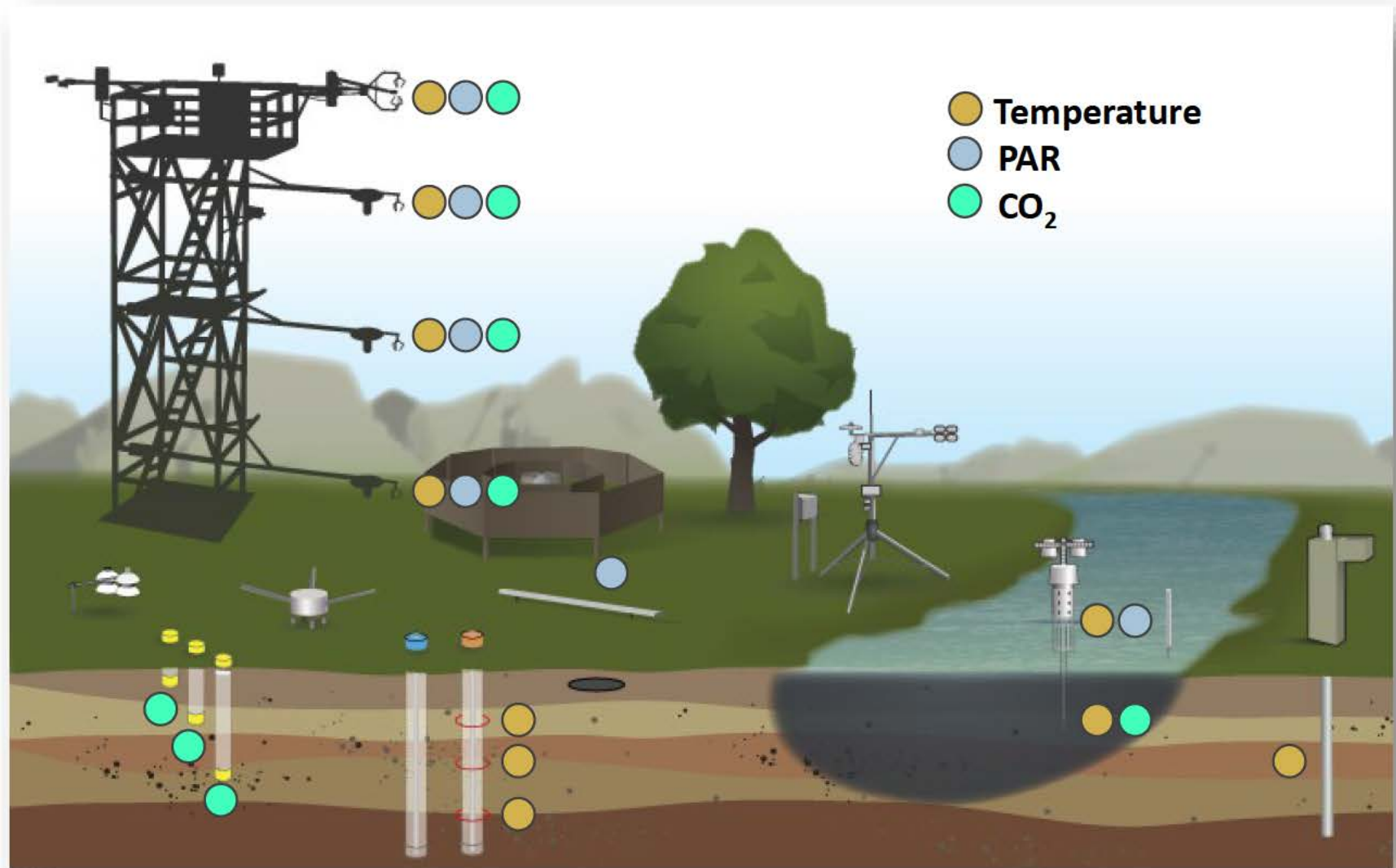
- Surface-Atmosphere Exchange
- Water Quality
- Meteorology
- Phenology
- Soil

Observations

- Phenology
- Species Abundance and Diversity
- Plant biomass and productivity
- Biogeochemistry
- Pathogens
- Hydrology and Geomorphology

Airborne Surveys

- LiDar
- Imaging Spectrometer
- RGB Camera





>180 Data Products

Atmospheric



H₂O, CO₂
Heat
Micromet
Isotopes
Turbulence
Storage
Fluxes

Organismal



Abundance
Composition
Biomass
Productivity
Pathogens
Phenology
Marker Genes
Metagenomics

Ecohydrology



Water quality
Precipitation
Discharge
Radiation
Geomorphology
Riparian Structure

Biogeochemistry



Soil conditions
Chemistry
Particulates
Foliar characteristics

Remote Sensing



Spectrometry
Hi-Res Imagery
LiDAR

API and Data portal:
data.neonscience.org

Biorepository: biorepo.neonscience.org



THANK YOU!



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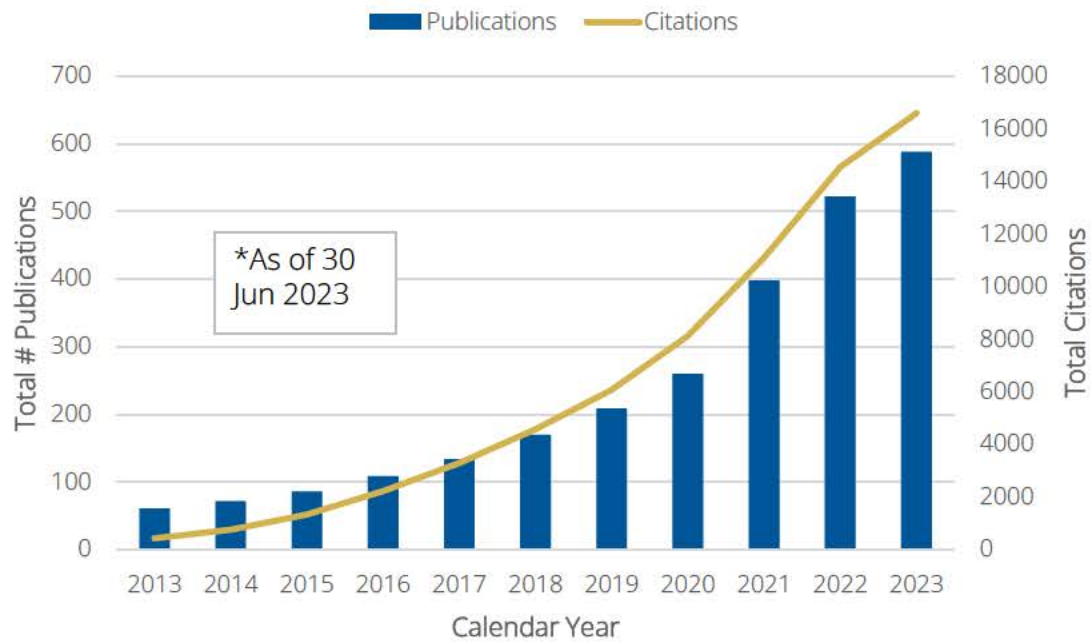


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