

SCHOOL of FORESTRY

Monthly Newsletter

SEPTEMBER 2021



NAU FORESTRY PROGRAM

The NAU forestry program is a vibrant, diverse and active place of learning and research and a feeling of community. Here are just some of the activities this month of our internationally distinguished faculty and researchers.

UPCOMING SOCIAL EVENTS

- Oct 8-** School of Forestry Advisory Council on-campus visit
- Oct 9-** Arbor Day Tree Tour (11am-2pm)
- Oct 29 -** Natural Resources Career Fair (11m-4pm)
- Nov. 5 -** NAU School of Forestry Alumni Virtual Social @ SAF convention (Meeting ID: 825 3256 4959; Password: NAU-SOF)

NAU SCHOOL OF FORESTRY

The School of Forestry is a gateway to a fulfilling forestry career; it's also an invitation to create sustainable solutions for the natural world and outdoor enjoyment for years to come.



PUBLICATIONS THIS MONTH
(PAGE 2)



AWARDS & GRANTS
(PAGE 3)



PRESENTATIONS & OUTREACH (PAGE 3)



GRADUATE STUDENT SPOTLIGHTS



UNDERGRADUATE STUDENT SPOTLIGHTS

For more information visit
nau.edu/forestry



PUBLICATIONS: [NAU Authors in Bold, * Undergraduate Student]

Allen, J.A. and Andrew C. Mason. 2021. Urban food forests in the American Southwest. Urban Agriculture and Regional Food Systems. doi10.1002/uar2.20018.

Adams, M.A., Buckley, T.N., **Binkley, D.**, Neumann, M. and Turnbull, T.L., 2021. CO₂, nitrogen deposition and a discontinuous climate response drive water use efficiency in global forests. Nature Communications, 12(1), pp.1-9.

Binkley, D., 2021. Forest Ecology: An Evidence-Based Approach. John Wiley & Sons.

Caster, J.J., Sankey, T., Sankey JB, **Bowker, M.A.**, Buscombe, D., Duniway, M.C., Barger N., Faist, A., Joyal, T. 2021. Soil surface roughness as a measure of biological soil crust disturbance and recovery within cool and hot deserts. Geoderma 403:115369.

Hagmann, R.K., P.F. Hessburg, S.J. Prichard, N.A. Povak, P.M. Brown, **P.Z. Fulé**, R.E. Keane, E.E. Knapp, J.M. Lydersen, K.L. Metlen, M.J. Reilly, **A.J. Sánchez Meador**, S.L. Stephens, J.T. Stevens, A.H. Taylor, L.L. Yocom, M.A. Battaglia, D.J. Churchill, L.D. Daniels, D.A. Falk, P. Henson, J.D. Johnston, M.A. Krawchuk, C.R. Levine, G.W. Meigs, A.G. Merschel, M.P. North, H.D. Safford, T.W. Swetnam, and **A.E.M. Waltz**. 2021. Evidence for widespread changes in the structure, composition, and fire regimes of western North American forests. Ecological Applications, e02431.

Puspitaloka, D., **Kim, Y.S.**, Purnomo, H. and **Fulé, P.Z.**, 2021. Analysis of challenges, costs, and governance alternative for peatland restoration in Central Kalimantan, Indonesia. Trees, Forests and People, 6, p.100131.

Colavito, M., **A. Sanchez-Meador**, **C. Edgeley**, **J. Burnett**, E. Hjerpe and T. Combrink. 2021. Calculating the full costs of the 2010 Schultz fire: a ten-year review. NAU Ecological Restoration Institute Fact Sheet. Aug. 2021 <https://cdm17192.contentdm.oclc.org/digital/collection/p17192coll1/id/1098>



NEW AWARDS:

Anita Antoninka with Dr. Bridget Barker and Helen Rowe received a SHERC Pilot Project Program grant to investigate the role of biocrust restoration on soil stability and abundance of Coccidioides spores which are the causative

Matt Bowker and Anita Antoninka, have a new grant from the US Geological Survey entitled Determining climate adaptation and restoration options for Casa Grande Ruins National Monument biological soil crusts. This \$47,940 award is the smaller and first of two expected funding streams for this project (the other expected in October from the National Park Service), which will fund a collaboration between NAU SOF, US Geological Survey, National Park Service and three National Monuments.

Yeon-Su Kim, Jonathan Martin (ERI), Pete Fulé and Angelina Castagno (NAU DINE) received \$300,000 grant from USDA AFRI - Education and Workforce Development for providing immersive professional development opportunities for K-12 teachers in Native-serving schools to develop culturally responsive curriculum units in forestry-related topics.



PRESENTATIONS/OUTREACH:

James Allen gave 3 presentations this summer

- A virtual presentation entitled ""The Arcosanti Food Forest"" at the 2021 North American Agroforestry Conference, which was held from June 28 - July 2.
- AN invited virtual presentation entitled Agroforestry Silvics, a Southwest Perspective, at the Agroforestry Silvics Listening Session. This two-day event was held on July 12-13 and was organized by the USDA National Agroforestry Center. The purpose was to begin planning for an Agroforestry Silvics manual.
- A presentation on watershed restoration to the Flagstaff Area Roving Rangers group. This group is a partnership team comprised of both rangers and volunteers from the National Park Service and the U.S. Forest Service. The presentation was on September 2 at the Flagstaff Ranger District.

Students on Semester A field trip



Forestry students planting milkweed on campus



SOF Ambassadors and their work
at the Centennial Welcome event
(September 18)

SOREN KRISTENSEN – YR 4
ELENA RODRIQUEZ – YR 2
MEGAN KING – YR 4
OLIVER PICKERING – YR 4
KAITLIN SWANG – YR 3
JULIAN “JULES” BARAB – YR 3