

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 tenyear 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.

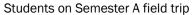
Yeon-Su Kim, Jonathan Martin (ERI), Pete Fulé and Angelina Castagno (NAU DINE) received \$300,000 grant from USDA AFRI - Education and Workforce Development for providing immersive professional development opportunities for K-12 teachers in Native-serving schools to develop culturally responsive curriculum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





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