

SCHOOL of FORESTRY

Monthly Newsletter

DECEMBER 2020



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.

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

Featured Faculty: A. Antoninka, M. Bowker, R. Hofstetter, Y-S. Kim, and N. Laporte

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AWARDS & GRANTS

Faculty and students: Anita Antoninka, Alark Saxena, Alder Saxena, and Jennifer Zahratka

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PRESENTATIONS & OUTREACH

Alark Saxena, Catrin Edgeley, Melanie Colavito (ERI), and Matt Bowker

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For more information visit
nau.edu/forestry





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

Kleinschroth, F., **N. Laporte**, W.F. Laurance, and **S.J. Goetz**, J. Ghazoul. 2019. Road expansion and persistence in the Congo Basin, Nature Sustainability. 2:628-634.

<https://doi.org/10.1038/s41893-019-0310-6>

Silva, A., Gao, B., Fisher, K.M., Mishler, B.D., Ekwealor, J., Stark, L.R., Li, X., Zhang, D., **Bowker, M.A.**, Brinda, J.C., Deane-Coe, K.K., and M.J. Oliver. 2020. To dry perchance to live: insights from the genome of the desiccation-tolerant biocrust moss *Syntrichia caninervis*. The Plant Journal (Accepted) <https://onlinelibrary.wiley.com/doi/10.1111/tpj.15116>

Haagsma, M., Page, G., Johnson, J., Still, C., **Waring, K.M.**, Snieszko, R., and J. Selker. 2020. Using hyperspectral imagery to detect an invasive fungal pathogen and symptom severity in *Pinus strobiformis* seedlings of different genotypes. Remote Sensing. 12(24): 4041.

<https://doi.org/10.3390/rs12244041>

Faist Akasha M., **Antoninka Anita J.**, Barger Nichole N., **Bowker Matthew A.**, Chaudhary V. Bala, Havrilla Caroline A., Huber-Sannwald Elisabeth, Reed Sasha C., Weber Bettina. 2021. Broader Impacts for Ecologists: Biological Soil Crust as a Model System for Education. Frontiers in Microbiology 11: 3284 10.3389/fmicb.2020.577922

Bae, J.S.; **Kim, Y.-S.** History Lessons from the Late Joseon Dynasty Period of Korea: Human Technology (Ondol), Its Impacts on Forests and People, and the Role of the Government. Forests 2020, 11, 1314.

Sullivan, B.T., A.M. Grady, **R. W. Hofstetter**, D.S. Pureswaran, C. Brownie, D. Cluck, T.W. Coleman, A. Graves, E. Willhite, L. Spiegel, D. Scarbrough, A. Orlemann, and G. Zúñiga. 2020. Evidence for semiochemical divergence between sibling bark beetle species: *Dendroctonus brevicornis* and *D. barbari*. Journal of Chemical Ecology (<https://doi.org/10.1007/s10886-020-01233-y>)



NEW GRANTS:

**Alark Saxena, Patrick Jantz,
and Alder Keleman Saxena**

Creating evidence for forest based resilience during Covid-19
Funded by FORMAS (Swedish Research Council for
Sustainable Development (\$119,000)

**Alark Saxena, Patrick Jantz,
and Alder Keleman Saxena**

Prioritizing the Displacement -Environment Nexus: Refugee
and IDP Settlements as Social- ecological Systems. Funded by
Norwegian Research Council (1.2 Mil Euros)

NEW AWARDS:

Jennifer Zahratka (PhD student) Professional Development Award by Broadening
Participation Program of the Society for Integrative and
Comparative Biology.

<http://sicb.burkclients.com/students/awards.php3>.

Anita Antoninka

Paper in Restoration Ecology was ranked top 5 papers in
journal of Restoration Ecology for 2020.



PRESENTATIONS/OUTREACH:

Alark Saxena participated as an expert in a Panel on "IUCN Red List of Ecosystems (RLE)
Typologies and Principles of Classification: Assessing ecosystem risks for prioritising
conservation in Mountain Ecosystems of S. Asia" organized by South Asia Regional Network of
IUCN CEM, IUCN CEM Forest Specialists Group, and FAO-Mountain Partnerships. Watch his panel
discussion at <https://studio.youtube.com/channel/UCX5RWY6ff1KpYLFcjw87iHw>

Catrin Edgeley was interviewed for the findings of a survey conducted by the SoF and ERI after
the Museum Fire, which were shared in the Arizona Daily Sun. Available at
https://azdailysun.com/news/local/new-survey-suggests-some-flagstaff-residents-are-confused-about-evacuation-systems-based-on-museum-fire/article_2033beb9-33eb-5791-96f5-a70e7141fad0.html with **Melanie Colavito** (ERI).

Anita Antoninka and Matthew Bowker with **Helen Rowe (SES)** are interviewed in an Arizona
Republic piece about biocrust restoration. <https://www.azcentral.com/in-depth/news/local/arizona-science/2020/12/08/biocrust-could-curb-dust-storms-and-erosion-yet-disappearing/6142802002/?fbclid=IwAR2elgxrPckxf8YSiydEVGdK0xFZ4ogfLpnf239qEtigYNiA5xvVv89eNk>