



Action in Agroforestry

April 2020 Vol. 12, No.4 Hannah Hemmelgarn & Michael Gold, editors

Welcome Manuela Pereira, Visiting Scholar from Brazil

The Center for Agroforestry is pleased to welcome Manuela Pereira, a visiting scholar from São Paulo, Brazil, where she is an associate professor of agroecology at the Federal University of Fronteira Sul. Manuela came to the Center for Agroforestry at the University of Missouri this spring as a visiting scholar with a PrInt CAPES/USP scholarship because of the interdisciplinary nature of the agroforestry program. She will be pursuing work to complete her doctoral thesis in applied ecology, with advising from Dr. Ranjith Udawatta.

Pereira believes that the long trajectory of the Center for Agroforestry's work and their success in fulfilling the four missions of the university (education, extension, research and economic development), offers a roadmap for integration of program objectives. Pereira expects that this experience at MU will inspire her path as a professor in Brazil.

Pereira's doctoral research is focused on the effects of traditional farming systems held by *caiçaras* communities on carbon stocks and floristic diversity of forests, in São Paulo state, Brazil. The *caiçaras* communities (descendants of indigenous peoples from the southeast coast of Brazil, with African and early European migrant ancestors) are inhabitants of the area with the largest *continuous*



conservation areas in the Atlantic Forest biome. This biome is the most fragmented in Brazil; it is estimated

that only 10% of its original cover remains. These circumstance raise several issues about the use of those remaining remnant forests and their conservation status: are the local communities living in this area sustaining forest health?



The *caiçaras* communities manage the Atlantic Forest through swidden agriculture, also known as shifting cultivation or slash-and-burn agriculture. There are a wide variety of shifting cultivation systems, each with different management practices utilized by communities in the pantropical areas of the globe. Because of this diversity, it is difficult to confirm if these systems are responsible for deforestation.

For the *caiçaras*, swidden cultivation is responsible for their socioeconomic productivity and plays an important role in the preservation of local culture. The unknown impacts of this system on forest biodiversity raises questions about the best land use policies to conserve the Atlantic Forest. Pereira's study will assess the possible outcomes of these policy decisions.

The Agroforestry Podcast: Wrapping up Season 1 with Financing & Economics

You have waited patiently while we navigated changes to our schedules and demands with the coronavirus, and at last, we close the first season of the Agroforestry Podcast with an episode intended to steer your budding tree crop ideas into grounded reality. Larry Godsey, Faculty at Missouri Valley College and former agroforestry economist with the Center for Agroforestry, shares his insightful perspective about economics in the context of long-term harvests and ecosystem services associated with perennial farming. And while economics isn't all about finances, it's an important part of the equation; Paul Dietmann, Senior Lending Officer of Mission Finances at Compeer Financial and co-author of *Fearless Farm Finances*, offers an insider-perspective on financing for beginning farmers interested in planting trees.

Season two of the Agroforestry Podcast will commence in warmer months, when we can dig deeper on topics ranging from mushroom cultivation, land access, multispecies grazing, Indigenous agroforestry systems, and much more! <http://www.centerforagroforestry.org/pubs/podcast.php> Subscribe and tune in on any podcast app.

COVID-19 Resources for Farmers and Entrepreneurs

There has been a tremendous response to ensure that farmers are informed and supported during the coronavirus pandemic. The following guides and resources are central to this effort:

- [USDA COVID-19 Federal Rural Resource Guide:](https://www.rd.usda.gov/sites/default/files/USDA_COVID-19_Fed_Rural_Resource_Guide.pdf)
https://www.rd.usda.gov/sites/default/files/USDA_COVID-19_Fed_Rural_Resource_Guide.pdf
- [ATTRA Sustainable Agriculture Program COVID-19 Response:](https://attra.ncat.org/covid/) <https://attra.ncat.org/covid/>
- [Midwest Organic and Sustainable Education Service COVID-19 Farmer Resources:](https://mosesorganic.org/covid-farmer-resources/)
<https://mosesorganic.org/covid-farmer-resources/>

Call for Papers: Special Issue on Urban Agroforestry, Urban Agriculture & Regional Food Systems

The journal of *Urban Agriculture & Regional Food Systems* is accepting academic papers for a special issue on urban agroforestry <https://access.onlinelibrary.wiley.com/journal/25751220/specialsectioncall> The issue will explore the challenges and opportunities, potential applications, and future research needs of urban agroforestry. Contributions on the following topics are encouraged:

- Identifying urban spaces for integrating trees and shrubs with edible fruits and nuts.
- Environmental factors that alter the urban environment, with implications for agroforestry plantings.
- Assessment of the potential risks with growing food in cities.
- Opportunities for school food forests to contribute to environmental and agricultural education.
- Applications of urban agroforestry in cities around the world.

Submissions open: 15 Mar. 2020

Submission deadline: 30 Sept. 2020

Manuscripts should be submitted through the Urban Agriculture & Regional Food Systems ScholarOne submission portal: <https://mc.manuscriptcentral.com/urbanag>

KUDOS

Recent Publications

Gold, M.A. (2020) Anthromes – temperate and tropical agroforestry. Encyclopedia of the World's Biomes. D. Del La Sala and M. Goldstein, eds. Elsevier. Reference Module in Earth Systems and Environmental Sciences. <https://doi.org/10.1016/B978-0-12-409548-9.12492-3>

Udawatta, R.P., Gantzer, C.J., Reinbott, T.M., Wright, R.L., Pierce, R.A., Wehtje, W. (2020) Influence of species composition and management on biomass production in Missouri. *Agriculture*, 10, 75; DOI: 10.3390/agriculture10030075.

Revord, R.S., Lovell, S.T., Capik, J.M., Mehlenbacher, S.A., Molnar, T.J. (2020) Eastern Filbert Blight resistance in American and interspecific hybrid hazelnuts. *J. Amer. Soc. Hort. Sci.*. DOI: <https://doi.org/10.21273/JASHS04732-19>

Congratulations to MU Extension Forester, Dr. Hank Stelzer, who received the 2020 Karkhagne Award from the Missouri Society of American Foresters. The Karkhagne is the society's highest honor, presented to a forester for outstanding service and professional achievement. Stelzer is a leader in the FFA forestry program; developer of landowner training for the Missouri Woodland Steward program; adviser for sustainable wood biomass procurement to supply MU's state-of-the-art wood energy power plant; and a 44-year member of the Society of American Foresters with leadership and service in four local chapters.

UPCOMING EVENTS

Chestnut Lunch Webinar Series:

April 29, 2020 | 11:00-12:00pm CST | Michigan State University Extension | Free online webinar

This webinar series will assist chestnut growers with real-time updates in-season. Join MSU faculty and veteran chestnut growers on the last Wednesday of each month April-August to learn about best agronomic practices, pest management, fertility and more. The April webinar will feature Erin Lizotte of Michigan State University Extension, on chestnut weevil management and discussion about the Michigan Chestnut Management Guide. This series is free, but registration is required: [Chestnut Lunch Webinar Series](#). Recorded webinars will be closed captioned and available within seven days of the live event. <https://www.canr.msu.edu/news/chestnut-lunchtime-webinar-series>

Native Gardening: A Free Deep Roots Virtual Series:

April 16 – May 12, 2020 | 4:00pm CST | Every Tuesday and Thursday

Deep Roots is presenting a series of short, live sessions (20-30 minutes), with some of their many knowledgeable partners. Presentations are free, with interactive Q&A, and recordings will be available after. April 16th - What's Blooming Now? April 21st - Adding Natives to Existing Landscaping. April 23rd – Virtual Prairie Visit. April 28th – Planting and Caring for Trees and Shrubs. April 30th – Recognizing and Removing Invasive Trees and Shrubs. May 5th – Prepping Native Seeds for Planting. May 7th /12th – Grow Your Own Habitat at Home, Parts 1&2. Register once and receive access to all sessions.

https://deeprootskc.org/stayhomekc/?mc_cid=e6182c8c9d&mc_eid=1a6093eafd

Spring Pawpaw Propagation Workshop (Online)

May 2, 2020 | 8:30-10:30am CST | NOFA New Jersey | online workshop

Dr. Charlie West at West Farm Nursery will share techniques specifically applicable to the North American pawpaw, including hand pollination, seed germinations, and basic grafting procedures during this online event. Most quality fruit trees, including pawpaws, are a result of grafting desirable scion wood onto compatible rootstocks. Basic grafting techniques and limitations will be demonstrated and discussed. Prior registration is required, \$20 for NOFA members and \$25 for non-members. Details and registration at

<https://nofanj.org/event/spring-paw-paw-propagation-workshop/>

Nutshell Webinar: Forest Farming & The Black Farmer Fund

May 12th, 2020 | 7:00pm CST | Savanna Institute | free online webinar

Olive Watkins of the Black Farmer Fund will share about her experiences and resources during this live, online “Nutshell” discussion. Limited space is available; register for Nutshell webinars at

<http://www.savannainstitute.org/events.html> Instructions for accessing discussions will be provided upon registration.

Glades, Quail, and Prescribed Fire Workshop

June 2-3, 2020 | Oak Woodlands & Forest Fire Consortium | Ash Flat, Arkansas

Co-hosted by the Oak Woodlands & Fire Consortium, Arkansas Game and Fish Commission, and The Nature Conservancy, this 1.5-day workshop in Northern Arkansas will focus on prescribed fire management of glades, with emphasis on quail habitat. A half day of presentations at Ozarka College will be followed by a full day field tour to see these practices at Harold E. Alexander Spring River Wildlife Management Area.

Registration is required and limited to the first 50 registrants. For details, visit

<https://oakfirescience.com/events/glades-quail-and-prescribed-fire-workshop-in-arkansas/> or contact Joe

Marschall (marschallj@missouri.edu) with questions.



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