



Action in Agroforestry

January 2019 Vol. 10, No.1 Michael Gold and Hannah Hemmelgarn, editors

10th Annual Agroforestry Symposium: Innovation to Entrepreneurship

On January 30th and 31st, the University of Missouri Center for Agroforestry will host the 10th annual Agroforestry Symposium at the Bond Life Sciences Center on the MU campus. This year's symposium, "*Innovation to Entrepreneurship: Fostering a Culture of Research Translation*" will explore topics that inform and inspire the transformative process that occurs when research innovations are developed into viable entrepreneurial opportunities, and will highlight the role of the University in promoting economic development.

The event kicks off at 6:30 p.m. Wednesday, January

speaker, Dr. Kelly Sexton, Associate Vice President for Research-Technology Transfer and Innovation Partnerships at the University of Michigan. Dr. Sexton will speak on "Universities as Drivers of Economic Growth: The Transformative Power of Research and Technology Commercialization". Dr. Namrita Lall, Professor of Plant Science at University of Pretoria, and our very own Dr. Chung Ho Lin, Associate Research Professor at the University of Missouri Center for Agroforestry, will each share their experiences in bioprospecting and research innovations with regard to

medicinal and bioenergy plants' applications. Join us for a lively discussion at 11:30 a.m. with a panel of speakers on "Fostering Translation of Research and Entrepreneurship at MU", followed by a complementary networking lunch.

Afternoon sessions include speakers Bill Turpin, CEO of the MU Missouri Innovation Center on "The Role of an Incubator in Entrepreneurial Development", Matthew Wood, CEO and Founder of SCD Probiotics on "Twenty Years of Microbiome Technology Entrepreneurship," and an afternoon panel discussion on building economic impact through effective industry partnerships. A reception and poster session will close the day in the McQuinn Atrium. Exhibitors and research posters showcasing successful

examples of research translation will be available throughout the day on Thursday, January 31st.

If you are unable to attend in person, please consider joining us via livestream; details and registration at goo.gl/qtzbZa. This event is free and open to the public, but advanced registration is requested. For registration and a full agenda, please visit

<http://www.centerforagroforestry.org/events/symposia.php>.

SAVE THE DATE!

January 30-31, 2019
Bond Life Sciences Building
University of Missouri

10th Annual UMCA Agroforestry Symposium

**Innovation to Entrepreneurship:
Fostering a Culture of Research Translation**

Keynote Speakers: Dr. Kelly Sexton and Dr. Rodolphe Barrangou

The Center for Agroforestry
University of Missouri
A Global Center for Agroforestry, Entrepreneurship and the Environment

For full program schedule and details, please visit:
www.centerforagroforestry.org

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THE CENTER FOR AGROFORESTRY

30th with a welcome from Mark Macintosh, University of Missouri Vice President for Research and Economic Development, and keynote speaker Dr. Rodolphe Barrangou, North Carolina State University Associate Professor. Barrangou will share his insights about "The CRISPR Craze: Entrepreneurship Lessons from a Disruptive Technology." Vice Chancellor and Dean of the College of Agriculture, Food and Natural Resources, Dr. Christopher Daubert, will begin the day's program on Thursday, January 31st to welcome Thursday's keynote

Publications

- Mélanie J. A. Body, Matthew S. Zinkgraf, Thomas G. Whitham, Chung-Ho Lin, Ryan A. Richardson, Heidi M. Appel, and Jack C. Schultz. 2018 **Heritable phytohormone profiles of poplar genotypes vary in resistance to a galling aphid**. *Molecular Plant-Microbe* <https://doi.org/10.1094/MPMI-11-18-0301-R>
- Alexandra N. Davis, Gustavo Carlo, Zehra Gulseven, Francisco Palermo, Chung-Ho Lin, Susan C. Nagel, Danh C. Vu, Phuc H. Vo, Thi L. Ho, and Jane A. McElroy 2018 **Exposure to Environmental Toxicants and Young Children's Cognitive and Social Development**. *Reviews on Environmental Health* (In Press)
- Khanh-Van Ho, Zhentian Lei, Lloyd W. Sumner, Mark V. Coggeshall, Hsin-Yeh Hsieh, George C. Stewart and Chung-Ho Lin 2018 **Identifying Antibacterial Compounds in Black Walnuts (*Juglans nigra*) Using a Metabolomics Approach**. doi: 10.3390/metabo8040058.

Call for Applications: Agroforestry Farmer Apprenticeship Program

In summer 2019, the Savanna Institute is launching the first season of an Agroforestry Farmer Apprenticeship Program. Each apprentice will spend 10 weeks on the farm of a mentor agroforestry farmer in Illinois, Wisconsin, Minnesota, or Iowa, with part- to full-time employment throughout the period. On the farm, apprentices will learn about perennial crop establishment, management, and harvest; farm planning and decision-making; equipment maintenance; product marketing; farm/tree finance, and more. Farm visits, online course work, and a network of agroforestry farmers for peer learning and professional development will also be included in the program. [Apply](#) by March 1st, 2019. For more information, contact Jess Robinson, Savanna Institute Education Program Manager at jess@savannainstitute.org

KUDOS

Welcome - Newly admitted online MS Student for Spring 2019: Marie Berglund.

Marie has a BS in Forest and Natural Resource Management from the University of Minnesota (2014). She has also worked as a forestry technician for the US Forest Service in Montana and Idaho and completed an agroforestry internship in Belize at the Maya Mountain Research Farm (2018). Dr. Gold will serve as her advisor.



UPCOMING EVENTS

10th Annual Agroforestry Symposium: Innovation to Entrepreneurship

January 31, 2019 | Univ. of MO Center for Agroforestry | Bond Life Sci. Bldg. MU Campus, Columbia, MO

Please join us at this year's Agroforestry Symposium: Innovation to Entrepreneurship: Fostering a Culture of Research Translation. Keynote speakers are Dr. Kelly Sexton, Associate Vice President for Research - Technology Transfer and Innovation Partnerships for the University of Michigan and Dr. Rodolphe Barrangou, Associate Professor of Food Science and the Todd R. Klaenhammer Distinguished Scholar in Probiotics Research at North Carolina State University. The Symposium is free and open to the public, but registration is requested at goo.gl/iywnii. Not able to attend in person? Join us via livestream at goo.gl/qtzbZa. More information at <http://www.centerforagroforestry.org/events/symposia.php>

Nutshell Discussion with Terry Durham: Growing Elderberry for Health and Profit

January 15, 2019 | 6:00pm CST | Online event from the Savanna Institute

Terry Durham has been educating farmers, researchers, and consumers about elderberry since 1997. He has an elderberry nursery, manufactures the processing equipment, aggregates berries, and produces elderberry specialty products. Learn the past, present, and future of elderberry during this "Nutshell" discussion. Register for this free webinar discussion at <http://www.savannainstitute.org/events.html>

Practical Farmers of Iowa “Cultivating Connections” 2019 Conference

January 17 – 19, 2019 | Practical Farmers of Iowa | Ames, IA

The 2019 Practical Farmers of Iowa conference is focused on cultivating connections: learn how to cultivate healthy soil to improve productivity and increase ecosystem services, vision a farmland legacy, engage with your community to spur rural economic development, and renew your inspiration for resilient farms and communities. At the outset of the 2019 PFI conference, on Thursday, January 17th, two “short course” sessions will take place; one on **silvopasture** with Keefe Keeley, Steve Gabriel, and Diane Mayerfeld, and a second on **orcharding** with Steve Louis, Michael Phillips and others. See the entire program and register at <https://practicalfarmers.org/events/annual-conference/>

Nutshell Discussion with Hannah Breckbill: Cooperative Land Access

January 29, 2019 | 6:00pm CST | Online event from the Savanna Institute

During this “Nutshell”, Hannah Breckbill will discuss her story of land access and the worker-owned cooperative structure of her farm. Breckbill founded Humble Hands Harvest in 2013 as a vegetable farm, and has diversified to include sheep, pastured pigs, and perennial nuts. She uses her location from the farm to advocate for more resilient and regenerative land use throughout the Midwest. Register for this free webinar discussion at <http://www.savannainstitute.org/events.html>

Chestnut Growers Workshop

February 2, 2019 | 9am-5pm | Practical Farmers of Iowa | Iowa Arboretum in Madrid, Iowa

In this full-day workshop, learn from a number of experts about all aspects of chestnut production and marketing. Topics will include site selection, planting and tree management, varietal recommendations, grafted vs seedling trees, harvesting and curing, marketing and financial resources. Cost to attend is \$10 for PFI members and \$60 for non-members. Register at <https://form.jotform.com/tamsyn/pfi-chestnut-workshop>

Missouri Natural Resources Conference

February 5 - 7, 2019 | Tan-Tar-A Resort in Osage Beach, MO

The 2019 Missouri Natural Resources Conference, “United We Conserve”, will feature speakers Brandon Butler, Executive Director of the Conservation Federation of Missouri, and Bryan Richards, Emerging Disease Coordinator at the USGS National Wildlife Health Center. Additional plenary sessions will take place on topics ranging from forestry, fisheries and wildlife to conservation in agriculture, plus a poster and organization exhibit area. More information and registration at <https://mnrc.org/>.

Nutshell Discussion with Tom Wahl: Pawpaw Production and Marketing

February 12, 2019 | 6:00pm CST | Online event from the Savanna Institute

Tom Wahl will discuss design, site selection, inter-planting, growing, harvesting, and marketing of pawpaw in a Midwestern agroforestry/ perennial polyculture system. On their farm, Tom and his wife, Kathy Dice, with their two children, grow around 80 different perennial crops in an integrated polyculture system. Register for this free webinar discussion at <http://www.savannainstitute.org/events.html>

Missouri Tree Farm 70th Anniversary Celebration

March 1 - 2, 2019 | Forest and Woodland Association of Missouri | Hilton Garden Inn, Columbia, MO

Friday afternoon, tour and taste at Barrel 53 Cooperage in Higbee, MO; every barrel is aged and refined using premium Missouri White Oak. Friday evening there will be a reception, banquet and awards ceremony presented by Missouri State Forester Lisa Allen at Bass Pro Shops in Columbia, MO; Chris Erwin of the American Tree Farm System will speak on Advocacy and Legislative Process. On Saturday, attend concurrent educational sessions on woodland topics aimed at helping landowners reach their management goals. For a complete agenda and registration, please visit www.forestandwoodland.org/events.



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