

2020 Organic Agriculture Research Forum

Presented by the Organic Farming Research Foundation and Tuskegee University
in partnership with the Southern Sustainable Agriculture Working Group

January 23, 2020
Little Rock Marriott, Salon B
Little Rock, AR

Agenda

7:00 – 8:00 On-site registration
8:00 – 8:20 **Kokoasse Kpomblekou-A, Professor, Tuskegee University**
Welcome remarks and program overview: Status of organic farming research in the Southeast

Strengthening Organic Agriculture through Healthy Soils and Plant Breeding

8:20 – 8:40 **Alex Woodley, Assistant Professor, North Carolina State University**
Soil health principles for resiliency in organic agriculture
8:40 – 9:00 **Jim Myers, Professor, Oregon State University**
Lessons learned in farmer participatory plant breeding with the Northern Organic Vegetable Improvement Collaborative
9:00 – 9:20 **Desmond Mortley, Professor, Tuskegee University**
Participatory vegetable crop variety trials in the Southeast: Biomass yields
9:20 – 9:40 **Edmund Frost, Farmer, Common Wealth Seed Growers**
Organic cucumber research and breeding for the Southeast

Organic Management of Pests and Diseases

9:40 – 10:00 **Franklin Quarcoo, Assistant Professor, Tuskegee University**
Organic pesticide trials in the Southeast: How to manage pests in the Southeast
10:00 – 10:20 **Amber Sciligo, Manager of Science Programs, The Organic Center**
Organic solutions to control citrus greening disease and its vector, the Asian citrus psyllid

10:20 – 10:40 **Break**

Impacts of Organic Agriculture on Food Safety and Human Nutrition

10:40 – 11:00 **Adelia Bovell-Benjamin, Professor, Tuskegee University**
Nutritional quality of selected organic vegetables: A review
11:00 – 11:20 **Kristin Woods, Statewide Extension Agent, Auburn University**

- Implementing conservation practices while improving produce safety and quality*
- 11:20 – 11:40 **Alberta N. A. Aryee, Assistant Professor, Delaware State University**
Compositional differences in organic and conventional alternatives: Nutrients and bioactive compounds
- 11:40 – 12:00 **Julian Jones, Graduate Student, Tuskegee University**
*Attributes of organically grown squash (*Cucurbita pepo* L.) and tomato (*Lycopersicon esculentum*)*
- 12:00 – 12:20 **Safiullah Pathan, Assistant Professor, Lincoln University of Missouri**
Leafy green quinoa: A potential nutrient-rich new vegetable for organic farming

12:20 – 1:20

Lunch

Consumer Preferences, Markets, and Knowledge Transfer in Organic Systems

- 1:20 – 1:40 **Keniya Davis, Graduate Student, Tuskegee University**
*Consumers hedonic liking of organic squash (*Cucurbita pepo* L.)*
- 1:40 – 2:00 **Nicole Nunoo, Graduate Student, Virginia Tech**
Market development for organic squash, tomatoes, and southern peas in the Southeastern United States
- 2:00 – 2:20 **Katie Kule, Graduate Student, Clemson University**
Consumer perspectives on fruit bagging: A small grower horticultural practice for southern organic tree orchards
- 2:20 – 2:40 **Tim Miller, Farmer, Millberg Farm**
Innovative approaches to transferring knowledge to beginning and transitioning farmers and ranchers

2:40 – 2:55

Break

2:55 – 4:25

Round Table Discussions

4:25 – 5:00

Synthesis Discussion and Recommendations

Poster Session and Mixer

Governors' Hall 1

5:00 – 7:00

Fiacre Adifon, University of Abomey-Calavi

*Physico-chemical parameters of determinant at the level of the Laboko and Kokoro varieties of *Dioscorea rotundata* in Benin*

Hospice Akpo, University of Ibadan

Image data acquisition for estimating individual trees metrics: Closer is better

Joan Burke, USDA

Organic compared with conventional systems for lamb production yield differences in performance in Southeastern U.S. pastures

Christelle Codjia, University of Nigeria

*Ecological niche modeling of the stone partridge (*Ptilopachus petrosus* Gmelin, 1789) in Benin republic center*

Keniya Davis and Julian Jones, Tuskegee University

*Organic pesticides influence the nutritional and physical properties of organically grown sweet potato (*Ipomoea batatas* [L.] Lam)*

Cehidi Hatem, CTAB

Public policies to facilitate the transition to organic farming (Tunisian experience)

Sonu Koirala BK, Tuskegee University

*Tomato hornworm (*Manduca quinquemaculata*) management in organic tomato production in Alabama: Performance of selected biopesticides and host preference of the insect pest*

Carlos Alonso Maldonado Rocha, Universidad Autónoma de Sinaloa (UAS)

Obstacles in transitioning to a certified organic production system in farmers from the central-northern region of Sinaloa Mexico

Caitlin Skinner, Tuskegee University

Effects of thermal pretreatment on anaerobic methane production from a belowground cocktail of cover crops

Andreka Wills, Tuskegee University

Storage root yield and elemental leaf concentration of three sweet potato varieties in response to organic fertilizer

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