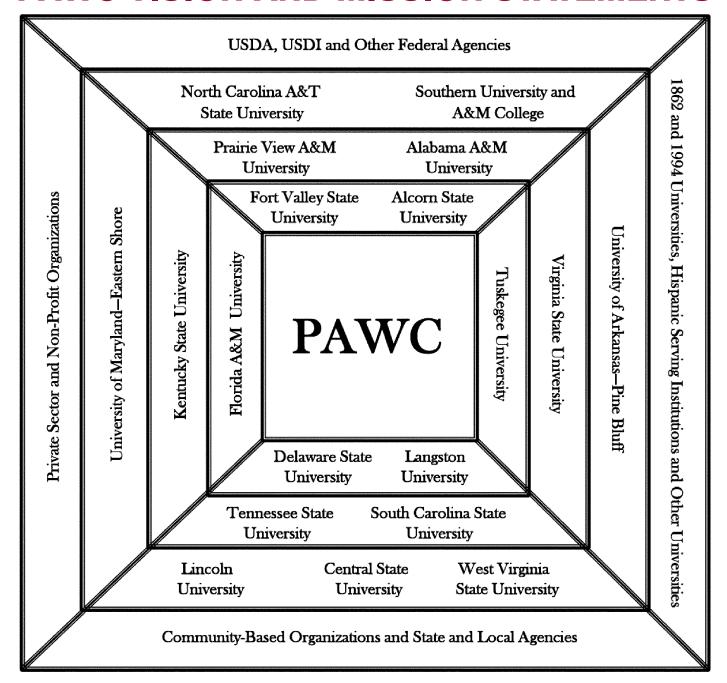


PAWC VISION AND MISSION STATEMENTS



Vision

The Professional Agricultural Workers Conference (PAWC) is a forum committed to a world that values and promotes equal opportunity and equitable access to information and technology for the sustainable development of communities and natural resources.

Mission

To enhance the skills and contributions of agricultural and related professionals (business, government, university, and community professionals) involved in discovering, disseminating, and using emerging technologies, information, problem—solving, policy formulation, and strategy development for advancing people and communities.

There's an App for That!

We have created a mobile app for the 80th PAWC. Use the app to plan your conference experience, stay up to date with the latest news and announcements, see your schedule, view presentations, submit evaluations, ask questions, and much more! Once you download the WHOVA app, do not forget to create your profile so that you can network with other attendees.

How to Download the APP

- Download the WHOVA app from the app store
- Sign up for an account



AGENDA AT-A-GLANCE 80TH PROFESSIONAL AGRICULTURAL WORKERS CONFERENCE NOVEMBER 13-15, 2022

| SATURDAY, NOVEMBER 12, 2022 | | |
|-----------------------------|--|--|
| 1:00 pm – 8:00 pm | Tomorrow's Agricultural Professional Symposium (high school) | Tuskegee University – Henderson Hall Auditorium |
| 9:00 am - 7:00 pm | 1890 Wildland Fire Consortium (closed session) | Renaissance Hotel and Spa – Montgomery, AL |
| 5:00 pm - 7:00 pm | PAWC Tech Office | Riverview 7 |
| 5:00 pm – 9:00 pm | General Registration | Hotel Registration Booth |
| | SUNDAY, NOVEMBER 13, 202 | 2 |
| 8:00 am - 12:45 pm | Exhibit Registration & Setup | Exhibit Atrium & Concourse All |
| 8:00 am - 8:00 pm | Tomorrow's Agricultural Professional Symposium I – Collegiate | Montgomery 5 |
| | Tomorrow's Agricultural Professional Symposium II – Collegiate | Montgomery 7 |
| | Tomorrow's Agricultural Professional Symposium III – High School | Riverview 5 |
| 9:00 am – 4:00 pm | Legacy Museum & National Memorial for Peace and Justice Tour (On Your Own) | Legacy Museum |
| 10:00 am - 11:00 am | GSD Judges and Moderators Meeting | Ballroom A |
| 10:00 am - 12:30 pm | GSD Student Competition Registration & Check-in | Ballroom Atrium |
| 10:00 am - 5:30 pm | 1890 Wildland Fire Consortium (closed session) | Riverview 8 |
| 10:00 am - 6:00 pm | General Registration | |
| 11:00 am -12:45 pm | GSD Student Presenters Set Up | See Below |
| | Undergraduate Oral I | Riverview 2 |
| | Undergraduate Oral II | Riverview 3 |
| | Graduate Oral I | Riverview 4 |
| | Graduate Oral II | Riverview 6 |
| | Posters | Ballroom A |
| 11:00 am - 12:45 pm | Lunch on your own | |
| 1:00 pm – 3:00 pm | Gamma Sigma Delta Student Competition I | See below |
| | Undergraduate Oral I | Riverview 2 |
| | Undergraduate Oral I | Riverview 3 |
| | Graduate Oral I | Riverview 4 |
| | Graduate Oral II | Riverview 6 |
| | Posters | Alabama Ballroom D & E |
| 1:00 pm – 5:00 pm | Tomorrow's Agricultural Professional Symposium: Breakout I – Collegiate | Montgomery 5 |
| | Tomorrow's Agricultural Professional Symposium: Breakout II - Collegiate | Montgomery 7 |
| | Tomorrow's Agricultural Professional Symposium: Breakout III -High School | Riverview 5 |
| 1:00 pm - 6:00 pm | Exhibits | Concourse All |
| 3:00 pm – 3:30 pm | Gamma Sigma Delta Student Competition Break | Concourse All |

Leveraging Change and Transformations: New Opportunities for 1890 Agriculture

| 3:30 pm – 6:00 pm | GSD Student Competition II | See Below |
|--------------------|---|---------------------------|
| 6:30 pm – 8:30 pm | MANRRS & Student Award Banquet Open to all Registered Attendees | Ballrooms B, C, D, & E |
| 8:30 pm – 9:00 pm | GSD Student Winners Debriefing & Student Poster Removal | Ballrooms A, B, C, D, & E |
| 9:00 pm – 10:00 pm | Professional Poster Setup | Ballroom A |
| 9:00 pm - 11:00 pm | PAWC Professional Meet & Greet | Hospitality Suite |

| | MONDAY, NOVEMBER 14, 2022 | |
|---------------------|---|--------------------------------|
| 6:30 am - 7:45 am | Breakfast | Ballroom B, C, D & E |
| 7:00 am - 8:00 am | Exhibit Setup | Concourse All & Exhibit Atrium |
| 7:00 am - 6:00 pm | General Registration | Hotel Registration Booth |
| 8:00 am - 10:00 am | 80 th PAWC Opening Plenary Session | Ballrooms B, C, D, & E |
| 10:00 am - 10:30 am | Break & Visit with Exhibitors | Concourse All & Exhibit Atrium |
| 10:30 am - 11:45 am | Motivational Monday Plenary Session Guest Speaker: Ole Pete Key, Inc. | Ballrooms B, C, D, & E |
| 11:45 am - 1:30 pm | LA Potts Luncheon | Ballrooms B, C, D, & E |
| 1:30 pm – 3:00 pm | Concurrent Sessions I | See Below |
| Session 1 | Can Small Autonomous Robots Help Solve Agricultural Challenges | Montgomery 7 |
| Session 2 | USDA Listening Session | Riverview 2 |
| Session 3 | Linking Research & Practice to Increase Environmental and Natural Resource Management Impacts | Riverview 3 |
| Session 4 | Innovative Student Programs at 1890 & 1862 Universities | Riverview 4 |
| Session 5 | 1890 Land Grant University Collaboration Opportunities with Chinese Agricultural Universities | Riverview 5 |
| Session 6 | The Impact of COVID on Rural Communities in the Black Belt Region: Perspectives from the Field | Riverview 6 |
| 3:00 pm – 3:30 pm | Break & Visit with Exhibitors | Concurrent All |
| 3:30 pm – 5:00 pm | Concurrent Sessions II | See Below |
| Session 7 | Strategies for Promoting & Improving Health | Montgomery 5 |
| Session 8 | Socially Disadvantaged Farmers and Ranchers Policy Center Updates | Montgomery 7 |
| Session 9 | Strategies for Student Success | Riverview 3 |
| Session 10 | Let's Make the Cut | Riverview 4 |
| Session 11 | Innovative Programs for Communities & Small Farmers | Riverview 5 |
| Session 12 | Innovative Approaches to Plant Science | Riverview 6 |
| Session 13 | Building Capacity to Write Winning Grants | Riverview 8 |
| 5:00 pm - 6:00 pm | Professional Posters Presentation | Ballroom A |
| 5:00 pm - 6:00 pm | Refreshment Break and Visit with Exhibitors | Concurrent All |
| 5:00 pm - 6:00 pm | Professional Poster Presentations | Ballroom A |
| 5:00 pm - 6:00 pm | Visit with Exhibitors | Concourse All & Exhibit Atrium |
| 6:30 pm – until | Cruising with PAWC- Dinner Cruise (optional and additional cost) | |
| 6:30 pm – until | Dinner on your Own | |

| TUESDAY, NOVEMBER 15, 2022 | | |
|----------------------------|---|--------------------------------|
| 6:30 am – 7:45 am | PAWC Advisory Board Meeting | Riverview 7 |
| 6:45 am - 7:45 am | Breakfast | Ballrooms B, C, D, & E |
| 8:00 am - 10:00 am | Charles Sherrod Memorial Lecture | Ballrooms B, C, D, & E |
| 8:00 am - 2:00 pm | Registration | Registration Booth |
| 10:00 am - 10:30 am | Break & Visit with Exhibitors | Concourse All & Exhibit Hall |
| 10:30 am - 12:00 pm | Concurrent Session III | See Below |
| Session 14 | Innovations in Nutrition and Health | Riverview 2 |
| Session 15 | Strategies for Managing Financial and Business Risk | Riverview 3 |
| Session 16 | The Black Belt Region: Opportunities and Challenges for Transformation | Riverview 5 |
| Session 17 | Investing in our Economic, Financial, & Social Future | Riverview 6 |
| Session 18 | USDA NRCS - Moving Forward | Riverview 8 |
| 12:00 pm – 1:30 pm | Lunch on your own | |
| 1:30 pm – 3:00 pm | Concurrent Session IV | See Below |
| Session 19 | Heirs' Property and Generational Land Loss I | Montgomery 5 |
| Session 20 | USDA Farm Service Agency Panel Discussion | Montgomery 7 |
| Session 21 | Author Showcase | Riverview 2 |
| Session 22 | Urban Agriculture, Gardening, Smart Design, and Vertical Farms | Riverview 3 |
| Session 23 | Woodland Grazing | Riverview 4 |
| Session 24 | Integrating Cover Crops & Vegetable Production & Making the Environment and Land Safe | Riverview 5 |
| 3:00 pm – 3:30 pm | Refreshment Break and Visit with Exhibitors | Concourse All & Exhibit Atrium |
| 3:30 pm – 5:00 pm | Concurrent Session V | See Below |
| Session 25 | Heirs' Property and Generational Land Loss II | Montgomery 5 |
| Session 26 | Are Forages Enough for Beef Cattle? An Overview of Beef Cattle Programming for the Years 2021–2022 | Montgomery 7 |
| Session 27 | Toward Transformative Education Using an Ecowomanist Approach | Riverview 2 |
| Session 28 | Innovations on the Farm | Riverview 3 |
| Session 29 | Overview & Demonstration of the FarmersClub USA | Riverview 4 |
| Session 30 | Marketing Options for Wine Markers | Riverview 5 |
| Session 31 | Overview of the Agmissions Program | Riverview 6 |
| Session 32 | Barriers Faced by Socially Disadvantaged Farmers and Ranchers and Access to Capital – Policy Center Research Analyst Update | Riverview 8 |
| 5:00 pm - 5:30 pm | Exhibit Area Closed | Concourse All & Exhibit Atrium |
| 6:30 pm – 9:00 pm | GWC Awards Banquet | Ballrooms B, C, D, & E |

SATURDAY, NOVEMBER 12, 2022

8:00 am - 8:00 pm Tomorrow's Agricultural Professional Symposium -

High school - Tuskegee University -

Henderson Hall Auditorium

9:00 am - 7:00 pm 1890 Wildland Fire Consortium (closed session)-

Renaissance

5:00 pm - 7:00 pm PAWC Tech Room - Riverview 7

5:00 pm - 9:00 pm General Registration - Hotel Registration Booth

SUNDAY, NOVEMBER 13, 2022

8:00 am -12:45 pm Exhibit Registration and Setup - Concourse All &

Exhibit Atrium

8:30 am - 11:30 am Tomorrow's Agricultural Professional Symposium I

Collegiate- *Montgomery 5*

Tomorrow's Agricultural Professional Symposium II

Collegiate – *Montgomery 7*

Tomorrow's Agricultural Professional Symposium III

High School- Riverview 5

9:00 am - 4:00 pm Legacy Museum & National Memorial for Peace and

Justice Tour (on your own)

10:00 am -11:00 am GSD Judges and Moderators Meeting - Ballroom A

10:00 am - 12:30 pm GSD Student Competition Check-in - Ballroom Atrium

10:00 am - 5:30 pm 1890 Wildland Fire Consortium (closed session) -

Riverview 8

10:00 am - 6:00 pm Conference Registration - Hotel Registration Booth

11:00 am - 12:45 pm GSD Student Competition Setup - See Below

Undergraduate Oral I - Riverview 2

Undergraduate Oral II - Riverview 3

Graduate Oral I - Riverview 4

Graduate Oral II - Riverview 6

Poster -Ballrooms A

11:00 am - 12:45 pm Lunch on your own

1:00 pm - 3:00 pm

GSD Student Competition - See Below

Undergraduate Oral I – Riverview 2
Undergraduate Oral II – Riverview 3
Graduate Oral I – Riverview 4
Graduate Oral II – Riverview 6
Poster – Alabama Ballroom A

1:00 pm - 5:00 pm

Tomorrow's Agricultural Professional Symposium Student Professional Development Workshops

Collegiate I – *Montgomery 5* Collegiate II – *Montgomery 7* High School III – *Riverview 5*

1:00 pm - 6:00 pm

Exhibits Open - Concourse Hall & Exhibit Atrium

3:00 pm - 3:30 pm

Student Competition Break & Visit with Exhibitors-

Concourse All

3:30 pm - 6:00 pm

GSD Student Competition

Undergraduate Oral I – Riverview 2 Undergraduate Oral II – Riverview 3 Graduate Oral I – Riverview 4 Graduate Oral II – Riverview 6 Poster – Ballroom A

6:30 pm - 8:30 pm

MANRRS Student Recognition & Award Banquet -

Ballrooms B, C, D & E

8:30 pm - 9:00 pm

GSD Student Winners Debriefing & Student Poster

Removal - Ballroom A, B, C, D, & E

9:00 pm -10:00 pm

Professional Poster Setup - Ballroom A

9:00 pm - 11:00 pm

Professional Meet & Greet - Hospitality Suite

MONDAY, NOVEMBER 14, 2022

6:30 am - 7:45 am Breakfast - Ballrooms B, C, D, & E

7:00 am - 8:00 am Exhibit Setup - Concourse All & Exhibit Atrium

7:00 am - 6:00 pm Registration - Hotel Registration Booth

8:00 am - 10:00 am

80th Professional Agricultural Workers Conference Opening Session – *Ballrooms B, C, D, & E*

Presiding:

Dremeal Worthen, Florida A & M University & Zeila Wiley, Kansas State University

Invocation

Christopher Mathis, University of Arkansas at Pine Bluff

Greetings & Welcome from Tuskegee UniversityOlga Bolden-Tiller, Tuskegee University

Greetings & Welcome from Congresswoman Sewell's Office *Melinda Williams*

Welcome

Deputy Under Secretary Jenny Moffitt

Greetings & Welcome from the PAWC Advisory Board John Williams, PAWC Advisory Board Chair

USDA Updates from Senior Advisory for Racial Equity to the Secretary of Agriculture

Dewayne Goldmon, USDA

Facilitator: Olga Bolden-Tiller, Tuskegee University

Guest: Karis Gutter, Corteva

PAWC Chat with Corteva: Leveraging Change & Transformations – New Opportunities for 1890 Agriculture

Recognition of Sponsors

Tasha Hargrove, Tuskegee University

10:00 am - 10:30 am

Stretch Break & Visit with the Exhibitors – Concourse All & Exhibit Atrium

10:30 am - 11:45 am

Motivational Monday - Ballrooms B, C, D, & E

Presiding: Shirley Brown & Tasha Hargrove, Tuskegee University



Mansfield Key III, known to most as Ole Pete Key, is a coach, consultant, speech writer, certified HIV/AIDS Instructor, social entrepreneur, and mentor. Mr. Key is an International Motivational Speaker who is a leading Growth Development Strategist. He has impacted the lives of over a million people through presentations, programs, and products. His proudest accomplishment other than his relationship with God is his devotion to his loving wife, Sharlene. He is the proud father of two beautiful daughters, Erin Ruth and Joi Da'Nae.

11:45 am - 1:30 pm

L.A. POTTS Luncheon & Success Stories - Ballrooms B, C, D, & E

Presiding: William Hodge & Catrina Hoffman, Tuskegee University

Recognition of Success Stories

Catrina Hoffman, Tuskegee University

Farmer-to-Farmer Program

Otieno Onesimus, Winrock International

Special Announcement: Future of the Tuskegee University Organic Program

Olga Bolden-Tiller, Tuskegee University

1:30 pm - 3:00 pm

Concurrent Sessions I - See Below

MONTGOMERY 7

Session 1: Can Small Autonomous Robots Help Solve Agricultural Challenges?

Moderator: Joseph Quansah, Tuskegee University

1:30 pm - 2:15 pm

Demonstration of Small Robots

N. Dennis Bowman, University of Illinois Urbana-Champaign

Representatives from the AIFARMS: Artificial Intelligence for Future Agricultural Resilience, Management and Sustainability will present information on the development of these robots and provide live demonstrations of working robots.

2:15 pm - 3:00 pm

Role of Robots in Addressing Agricultural Challenges

N. Dennis Bowman, University of Illinois Urbana Champaign & Rui Chen, Tuskegee University

The session will engage farmers in understanding the role of small robots in mechanically removing weeds and reducing yield losses from herbicide-resistant weeds. This will be an interactive session in which participants will discuss current strategies they use for weed management, their challenges, and their interest in new technologies, such as robots, to address these challenges.

RIVERVIEW 2

Session 2: USDA Listening Session (Invitation Only)

Moderators: Sophia Kirby, Sherron Jernigan, and Laura Artis, USDA - APHIS

Jennifer Moffitt, USDA, Under Secretary for Marketing and Regulatory Programs

Dewayne Goldman, USDA, Senior Advisor for Racial Equity to the Secretary of Agriculture

RIVERVIEW 3

Session 3: Linking Research and Practice To Increase Environmental And Natural Resource Management Impacts

Moderator: Joseph Davis, University of Arkansas at Pine Bluff

1:30 pm - 2:00 pm

Assessment of Pesticides Exposure over Alabama Using Satellite Data and GIS Techniques Gamal El Afandi and H. Ismael, Tuskegee University

2:00 pm - 2:30 pm

The Environmental Impact of the Woolfork Chemical Works Superfund Site on the Fort Valley, Georgia Community

Jacques Surrency, Fort Valley State University

2:30 pm - 3:00 pm

The State of Water Quality in Macon County, Alabama

Ronald Smith, Rashidah Farid-Tilghman, and Aishah Jones, Tuskegee University

RIVERVIEW 4

SESSION 4: Innovative Student Programs At 1890 And 1862 Universities

Moderators: Christopher Mathis & Robert Lewis, University of Arkansas at Pine Bluff

1:30 pm - 2:00 pm

CISC-INFAS HBCU Fellowship Pilot Program to Grow the Next Generation of Black Food Systems Leaders.

Lindsey Lunsford, Tuskegee University & Natilee McGruder, CISC

2:00 pm - 2:30 pm

1862 and 1890 Land Grant Universities Partnerships for Student Success

Zelia Wiley, Lonnie Hobbs, Jr., Santillana Summer, & Thomas Raymond, Kansas State University

2:30 pm - 3:00 pm

4-H Tech Changemakers Program Overview

Billie Grant, John Meyers, and Tiiwon Siaway, Tuskegee University

RIVERVIEW 5

SESSION 5: 1890 Land Grant University Collaboration Opportunities with Chinese Agricultural Universities

Moderator: Louis Swanson, Jr., Colorado State University

Presenters: Min Fan, US Heartland, Quintin Gray, 1890 Universities Foundation, and Suping Zhou, Tennessee State University

There are continuing opportunities for US higher education institutions to develop sustainable collaborative programs with Chinese agricultural universities. This may seem wishful thinking given the increasingly global and bilateral tensions between China and the US. This presentation is anchored on current collaborations between the 1890 Universities Foundation and the U.S. Heartland China Association (USHCA). Chinese agricultural universities and US land—grant universities (LGUs) have legacies of collaboration, including the *Sino–US Alliance on University—based Extension* established in 2017. Thirty—nine Chinese agricultural universities are creating *New Rural Development Institutes* (NRDIs) modeled on the US LGU's Extension and Experiment Stations. Unlike the U.S., China's Extension system is in the Ministry of Agriculture and Rural Development (MoARA) and not within their agricultural universities. The Chinese central government has mandated the establishment of Extension programs for all agricultural universities. 1890 LGUs have championed university—wide Extension since their founding. There is much 1890 LGUs can share with these Chinese universities and in turn these Chinese universities can offer opportunities to further expand 1890 LGUs' global horizons. The 1890 Foundation can facilitate this opportunity.

RIVERVIEW 6

Session 6: The Impact of Covid-19 On Rural Communities In The Black Belt Region: Perspectives From The Field

Moderator: Norma Dawkins, Tuskegee University

1:30 pm - 2:00 pm

The Challenges and Opportunities of Community Engagement in the Black Belt Veronica Womack, Georgia College State University

2:00 pm - 2:30 pm

The Rural Alabama Vaccination Education and Events (RAVE2) Program: A Model for COVID-19 Vaccination, Testing, and Education Strategies

Delores Alexander, Tuskegee University; D. Maxwell-Stafford, Rhema Healthcare & Wellness; V. Alexander, Tuskegee Community Partners; M. Antoine, Tuskegee University; K. Calhoun and D. Calhoun, Tuskegee Community Partners; J. Boone, Tuskegee University; B. Carter, J. Cooper, & S. Croft, Tuskegee Community Partners; J. Davidson, Tuskegee University, C. Davis, W. Dean-Colomb, D. Eaves, & D.H. Eaves, Tuskegee University; F. Forester, & M. Frazier, P. Guillette, Tuskegee Community Partners; L. Hunt-Haralson, C. Hoffman, & F. Holston, Tuskegee University, K. Johnson, Tuskegee Community Partner, A. Jones, Tuskegee University; K. Love, Tuskegee Community Partners; M. Martin, Tuskegee University; L. Maxwell, Macon County Commission; J. Mori, Tuskegee University; N, Moss, Rhema Healthcare and Wellness; O. Neal, Tuskegee Community Partners; S. Payne, Tuskegee University; B. Smith, Tuskegee Community Partners; N. Shahi, Tuskegee University; S. Suther, Florida A & M University; E. Taha, T. Tiller, S. Veeramasu, R. Whittington, & R. Shange, Tuskegee University

2:30 pm - 3:00 pm

Impact of Dietary, Exercise Habits, and Changes in Weight During the COVID-19 Pandemic

Vanessa Njoku, Deborah Omachi, and Thaniyath Shanaz, Tuskegee University

3:00 pm - 3:30 pm Stretch Break & Visit with Exhibitors - Concourse All & Exhibit Atrium

3:30 pm - 5:00 pm Concurrent Sessions II - See Below

MONTGOMERY 5

SESSION 7: Strategies for Promoting and Improving Health

Moderator: Catherine Barnett, Freedom to Thrive

3:30 pm - 4:00 pm

A Multifaceted Approach to Improving the Health of Seniors in Rural Alabama

Catrina Hoffman, LaTanya Hunt-Haralson, Denzel Veale, and Janet Sullen, Tuskegee University

4:00 pm - 4:30 pm

An Innovative Approach in Improving Nutrition, Health, and Wellnesses in Underserved Communities

Fatemeh Malekian, Southern University and A & M College, Norma Dawkins, Tuskegee University, Shengmin Sang, North Carolina A&T State University, Renita Marshall, Southern University and A & M College, Brittany Howard, Tuskegee University

4:30 pm - 5:00 pm

Lived Experiences of Congenital Heart Defect Diagnosis in Adulthood Jacklyn Sanders, Prairie View A&M University

MONTGOMERY 7

Session 8: Socially Disadvantaged Farmers and Ranchers Policy Research Center Updates

Moderator: William Crutchfield, Virginia State University

Presenter: Eloris Speight, SDFR Policy Research Center

Socially Disadvantaged Farmers and Ranchers Policy Research Center specializes in policy research impacting socially disadvantaged farmers and ranchers. Through collaboration with universities and organizations inside and outside the land grant community, Alcorn State University leverages Alcorn State University employees' expertise and increases personnel capacity with contractual partnerships with other universities and agencies. The mission of the Policy Research Center is to make policy recommendations that will improve the success of socially disadvantaged farmers and ranchers and will be accomplished through a transparent management structure focusing primarily in three areas, research, stakeholder engagement, and outreach.

RIVERVIEW 3

Session 9: Strategies for Student Success

Moderator: Jackie Sanders and Madison Purifoy, University of Arkansas at Pine Bluff

3:30 pm - 4:00 pm

Combining Youth/Passion and Resources for Environmental Science Studies: Virtual Experiential Learning Practices to Engage Rural Middle Schools Students about Agriculture and Natural Resources

Audrey McCrary-Quarles, South Carolina State University, and Christopher Mathis, University of Arkansas at Pine Bluff

4:00 pm - 4:30 pm

Growing Student Enrollment in College of Agriculture at an 1890 Institution During and Subsequent to COVID: Challenges and Successes

Ralph Noble, Fort Valley State University

4:30 pm - 5:00 pm

The University of Arkansas at Pine Bluff (UAPB) - AgDiscovery 2022, Preparing the **Next Generation of Animal Plant Health Inspection Services (APHIS) Professionals**

Christopher Mathis, D. White, and B. McGowan, University of Arkansas at Pine Bluff

RIVERVIEW 4

Session 10: Let's Make the Cut

Moderator: Kandi Williams, University of Arkansas at Pine Bluff

Presenter: Clarissa Harris, Tuskegee University

Let's make the "cut." Are you ready for this conversation? This session aims to inform producers about red meat post-harvest processing options. If you need any direction and guidance about the procedures, this is definitely for you. It is important to identify niche markets and utilize the resources available to make a profit or feed your community.

RIVERVIEW 5

Session 11: Innovative Programs for Communities & Small Farmers

Moderator: Karen Lee, University of Arkansas at Pine Bluff

3:30 pm - 4:15 pm

The New Leadership Frontier: Agriculture at the Intersection of Community Food Systems Kolia Souza, Michigan State University and Marcus Coleman, Tulane University

Today, our society faces complex challenges that are impacting everyday life, such as increasingly high rates of chronic disease, global pandemic, inflation as a byproduct of war, and climate change. These modern realities are also inextricably linked to our food supply and access. Food and nutrition security is a matter of national security, and millions of dollars in federal funding are being poured into communities to strengthen our nation's supply chain. Now more than ever, leadership is needed to guide more resilient, equitable, and sustainable development. However, there has long been a competing narrative between agricultural development and food system development. Defining - or redefining - the relationship between agriculture and community food systems and supporting the development of more diverse food and agriculture leaders will be necessary if we create a secure food future. This roundtable discussion, hosted by the Racial Equity in the Food System national workgroup, seeks bold yet practical approaches to these challenges to help guide its work alongside local communities and national partners.

4:15 pm - 5:00 pm

Working with Hmong Farmers: Overcoming Many Barriers To Serving the New Immigrant Community

Nalee Yang, Angela Brattin, Clement Akotsen-Mensah, Lincoln University

The Innovative Small Farmers Outreach Program (ISFOP) is part of Lincoln University Cooperative Extension (LUCE), created to help the small farmers and ranchers of Missouri, especially those who are socially disadvantaged and underserved, to raise the level of efficiency on their farms while taking good care of the soil, water, and the environment. Unfortunately, many small farmers and ranchers are unaware of the information on opportunities. ISFOP has successfully worked with Hmong farmers in Missouri, addressing their barriers. Through ISFOP, we established two educational sites on Hmong farms for Hmong and other farmers to learn and participate in high tunnel and fruit crop productions. Providing linguistically and culturally appropriate training, materials, and Hmong farmer hosts enables the educational site to be a learning hub for Hmong farmers.

RIVERVIEW 6

Session 12: Innovative Approaches In Plant Science

Moderator: Larry Holmes, USDA NRCS Retired

3:30 pm - 4:00 pm

Growing Medicinal Herbs, A Viable Alternative Economy for Small and Minority Producers: A Case of Maryland

Lila Karki and Henriette de Ouden, University of Maryland Eastern Shore

4:00 pm - 4:30 pm

Newly Released Muscadine Cultivars Evaluation

Elina Coneva, Auburn University

4:30 pm - 5:00 pm

Pruning vs. non-Pruning of Three Varieties of Peppers (Capsicum annum var. annuuma) Grown in a Wiregrass Tunnel House

George Hunter, David Miller, Edward Sparks, Carnell McAlpine, Justin Tate, Tuskegee University

RIVERVIEW 8

Session 13: Building Capacity to Write Winning Grants

Moderator: William Crutchfield, Virginia State University

Presenter: John Green, & Rachel Welborn Southern Rural Development Center

During the 2022–23 year, the Southern Rural Development Center will be recruiting community/ Extension/student teams to engage in a process to build long-term capacity for successful grant writing. The process will engage 1890 colleagues, community members, and students in a peer writing process. Typical grant writing workshops give a lot of information in a very short time, often without any type of feedback loop to learners past the workshop experience. This initiative proposes to actively engage with selected teams over an 8-month period to help teams gain a solid grasp on skills and have direct feedback on their work with each step along the way in the grant-writing experience. During this workshop, participants will get a taste of the new process through a brief hands-on writing experience. Participants will have the opportunity to examine the longer process designed to build community/university grant teams to work together on an important community issue.

5:00 pm - 6:00 pm Professional Poster Presentations - Ballroom A

5:00 pm - 6:00 pm Visit with Exhibitors - Concourse All & Atrium

6:30 PM - Until Cruising with PAWC - Dinner Cruise (Optional & Additional Cost) -

Harriott II Riverboat

Re-live history while enjoying a relaxing cruise on one of Montgomery's greatest downtown attractions, the Harriott II. Docked beside the uniquely built Riverwalk Amphitheater, this elegant 19th Century riverboat is center stage of Montgomery's entertainment district. The Harriott II offers dinner, dancing, and live entertainment, making this a perfect night out for the family.

6:30 PM – Until Dinner on Your Own

TUESDAY, NOVEMBER 15, 2022

6:30 am - 8:00 am PAWC Advisory Board Meeting - Montgomery 7

6:45 am - 7:45 am Breakfast - Ballrooms B, C, D, & E

8:00 am - 10:00 am Charles Sherrod Memorial Lecture

Presiding: M. Ray McKinnie, Virginia State University (Retired)
& Dawn Mellion – Patin, Extension Foundation

Remembrance of Charles Sherrod

Jerry Pennick & Kourtney Sherrod, Tuskegee University

Introduction of Speaker

M. Ray McKinnie, Virginia State University

Remarks from the Deputy Secretary of Agriculture

United States Deputy Secretary of Agriculture Jewel H. Bronaugh

Remarks from the Chief of Natural Resources Conservation Services

Chief Terry Cosby, USDA Natural Resources Conservation Services

Remarks from the Administrator of the National Agricultural Statistics Service

Administrator Hubert Hamer, USDA National Agricultural Statistics Service

Stretch Break

Special Presentation: USDA - Economic Research Service

Jeff Hopkins, USDA Economic Research Service

10:00 am - 10:30 am Break and Visit with Exhibitors - Concourse All

10:30 pm - 12:00 pm Concurrent Session III - See Below

RIVERVIEW 2

Session 14: Innovations in Nutrition and Health

Moderator: Fatima Malekiam, Southern University A & M College

10:30 am - 10:50 am

Cardiovascular Disease Protective Properties Of Blueberries (Vaccinium Corymbosum): A Review Of Current Literature

John Onuh, Norma Dawkins, Tuskegee University, and Rotimi Aluko, University of Manitoba

10:50 am - 11:00 am

An Observation of the Effect of the Ghana Regulatory Standards on Food Products and Processing Businesses in Ghana

Alberta Aryee, Delaware State University and Eunice Bonsi, Tuskegee University

11:30 am - 12:00 pm

Purple-Hull Peas: A Viable Source of Protein for Meat Alternatives

Norma Dawkins, Tuskegee University

RIVERVIEW 3

Session 15: Strategies for Managing Financial and Business Risk

Moderator: Iris Cole-Crosby, University of Arkansas at Pine Bluff

10:30 am - 11:45 am

Using Crop Insurance to Manage Risk

Laurence Crane, National Crop Insurance Service

An overview of crop insurance plans available in Alabama will be presented, the features of these plans will be reviewed and explained how they help farmers manage risk. Also discussed will be the process of applying for insurance and how producers can locate an agent who can answer their questions. A list of insurable crops in Alabama, along with the contact information for the AIPs delivering crop insurance in Alabama, will be provided.

11:45 am - 12:00 pm

Agriculture Taxation & Business Entity Development Crop Insurance

Darrell Tennie, Tennie Agriculture Group, LLC

This tax planning presentation will give clarity and enhance the audience in the understanding of the difference between the various entities, The benefits each entity, such as LLC, S-Corp, Partnership, Sole Proprietorship, or C-Corporation, offers, is based on how the entity is structured.

RIVERVIEW 5

Session 16: The Black Belt Region: Opportunities and Challenges for Transformations

Moderators: Mark Clark, OxFam America & Jerry Pennick, Tuskegee University

10:30 am - 11:15 am

Social and Economic Justice in the Black Belt Regioln: Opportunities and Challenges for Transformations

Raymon Shange, Jerry Pennick, Kourtney Sherrod, & Dala Alkordi, Tuskegee University and Gloria Tinubu, SAAB

One of the main reasons for the lack of sustainable economic development in the Black Belt Region (BBR) is the lack of significant presence and expertise of African Americans in the policy arena; too often, this results in leaders and communities having to react to unjust policies rather than being proactive in developing and advocating for policies that are just and equitable. The conditions in the BBR, while somewhat dire, do not have to remain this way if leaders and advocates at all levels had ready access to research—based data to help them develop policies that could move BBR toward economic independence. The purpose of this workshop is to introduce policymakers, advocates, local leaders, and 1890 Universities to CISC's first "State of African—Americans in the Black Belt Region" annual report and get their input. The workshop will present the attendees with a research—based analysis of the BBR along with specific policy recommendations.

11:15 am - 12:00 pm

The Black Belt Region: Opportunities and Challenges for Transformations

Gloria Tinubu, Oxfam, Eloris Speight, Socially Disadvantaged Farmers, and Ranchers Research Policy Center, Shirley Sherrod, Southwest Georgia Project, Ben Burkett, Mississippi State Association of Cooperatives, Ebony Woodruff, Federation of Southern Cooperatives, and Mikhiela Sherrod, Oxfam

Speakers will engage with each other and the audience to identify the unique opportunities and challenges facing Black Farmers and the communities in which they live, to achieve social and economic justice in the Black Belt. Through identifying those challenges and opportunities, the discussion will aim to lead to surfacing key federal and state—level policy recommendations and vehicles to achieve social and economic justice that is sustainable and community—led. Speakers will 1) identify the needs and challenges to achieving social and economic justice within their area of expertise/experience; and 2) propose policy solutions, where applicable. Speakers will cover topics including racial equity, environmental justice, food security, economic development, education, infrastructure, housing, and healthcare.

RIVERVIEW 6

Session 17: Investing in Our Economic, Financial & Social Future

Moderator: Yin Sun, Auburn University

10:30 am - 10:50 am

Demand Forecasting at Alabama Food Pantries Using Machine Learning Methods

Rui Chen, Tuskegee University, Thomas Orrison, Md Kamran Chowdhury Shisher, Yin Sun, Auburn University

10:50 am - 11:10 am

Decimation, Determination, and Re-development: The Case of the Peacock Tract Community

John Myers, Tuskegee University, K. Gilchrist, and V. Hall, Tuskegee University

11: 10 am - 11:30 am

Factors Associated with Attracting Business and Industry to Selected Black Belt Counties of Alabama

Andrew Zekeri, Tuskegee University

11:30 am - 11:50 am

Why Should We Pay More Attention to Small Farms versus Big Cotton Farms in Alabama? Rui Chen, Tuskegee University and Girish Chowdhary, University of Illinois Urbana-Champaign

RIVERVIEW 8

Session 18: USDA Natural Resources Conservation Services (NRCS) - Moving Forward

Moderator: Ben Malone, USDA - NRCS

Presenters: Terry Cosby, Vivian Dickson, Ronald Harris, Brandon McCray, and State

Conservationists, USDA - NRCS

The mission of the NRCS Outreach and Advocacy Division is to provide leadership to ensure that all programs and services are made accessible to all NRCS customers, fairly and equitably, with emphasis on reaching the underserved and socially disadvantaged farmers or ranchers and landowners. This interactive session will provide an opportunity for participants to engage with NRCS leaders and learn more about current programs.

12:00 PM - 1:30 PM Lunch On Your Own

1:30 PM - 3:00 PM Concurrent Sessions IV- See Below

MONTGOMERY 5

Session 19: Heirs' Property and Generational Land Loss I

Moderator: Robert Zabawa, Tuskegee University

Heirs' Property Policy and Research Updates from the Economic Research Service

Clayton Michaud, USDA Economic Research Service

Heirs' Property: Impacts at Family, Community, and Regional Levels:

A Proposed Multi-State Project

Russ Garner, Southern Rural Development Center

Heir's Property at the Microlevel: The Case of Small Southern Towns

Obianuju Egiebor and Robert Zabawa, Tuskegee University

Heir's Property at the Macrolevel: The Case for Critical Race Theory and Reparations

Connor Bailey and Ryan Thomson, Auburn University

Land ownership has been the key to generational wealth in this country. Yet, for African Americans, this has been a right often denied; and, when attained, has been the target of violence, takeaway schemes, and judicial action. This is the backdrop of the continuous decline in African Americanowned land, from 16 million acres in 1910 to approximately 4 million acres today. One way that this land is lost is through the familial co-ownership of intergenerational land held without secured title known as heirs' property. This session will focus on current research, outreach, and legislative actions to address this important issue and its impact on personal and community wealth and well-being.

MONTGOMERY 7

Session 20: USDA - Farm Service Agency Panel Discussion

Moderator: Miles Robinson, Tuskegee University

Presenters: Ronald C. Guidry, Jr. Louisiana Farm Service Agency; Arthur Tripp, Georgia Farm Service Agency; Clifton Warren, Farm Service Agency – Alabama State Executive Director; Thaddeus Fairley, Mississippi Farm Service Agency; Ronald Howell, Virginia Farm Service Agency; and Doris Washington, Arkansas Farm Service Agency – Arkansas State Executive Director

The USDA/1890 National Scholars Program was established in 1992 as part of the partnership between the U.S. Department of Agriculture and the 1890 Land-Grant Universities. The USDA/1890 National Scholars Program is implemented under the USDA Fellows Experience Program (FEP). Scholars accepted into the program will be appointed using the Schedule A(r) authority (5 CFR 213.3202) and may be eligible for noncompetitive conversion to full time employment upon graduation. This panel discussion will discuss the USDA/1890 National Scholars Program and how this program is being utilized by USDA to increase diversity efforts and initiatives within USDA working with 1890 land grant institutions.

RIVERVIEW 2

Session 21: Author Showcase – More Than Peanuts: The Unlikely Partnership of Tom Huston & George Washington Carver

Moderator: Walter Hill, Tuskegee University

Presenter: Edith Powell, Tuskegee University (Retired)

RIVERVIEW 3

Session 22: Urban Agriculture, Gardening, Smart Design, and Vertical Farms

Moderator: Barrett Vaughan, Tuskegee University

1:30 pm - 2:00 pm

Yield Comparison of Two Okra Varieties (*Abelmoschus esculentus*(L) Moench) Grown in a Wiregrass Tunnel House and Open Field

David Miller, George Hunter, Edward Sparks, Carnell McAlpine, Justin Tate, Jeffery Moore, Raymon Shange, and Victor Khan, Tuskegee University

2:00 pm - 2:30 pm

Assessing New Rabbiteye Blueberry Cultivars for Central Alabama

Elina Coneva, Auburn University

2:30 pm - 3:00 pm

Risk Assessment of Pesticides, Spray Drift from Agricultural Applications: A Case Study Macon County, Alabama

Gamal El Afandi, Hossam Ismael, Ramble Ankumah, and Souleymane Fall, Tuskegee University

RIVERVIEW 4

Session 23: Woodland Grazing: Importance, Research Highlights, and Supplementation for Desirable Performance and Health Conditions of Small Ruminants

Moderator: Lika Karki, University of Maryland Eastern Shore

There is an enormous potential for using understory vegetation present in woodlands for supplementing animal grazing, which would enhance tree growth and minimize potential fire hazards. Grazing in woodlands can be initiated after developing grazing facilities, mainly fencing the area and cross fencing for rotational grazing, watering systems, shelters, and mineral feeding facility. Animals in certain physiological stages, such as when they are growing, pregnant, or lactating, would require supplementary feedstuffs to meet their nutritional requirements for desirable performance and health conditions. Research and Extension teams at Tuskegee University have conducted a series of studies on different aspects of woodland grazing with small ruminants at their different physiological stages, animal—tree interaction, animal behavior, changes in soil, tree growth, and more. The prospects of woodland grazing with small ruminants, research highlights, supplementation strategies, and the impact of supplement types on animal performance and the immune system, will be discussed in the workshop. The producer's panel will share some concerns and thoughts on woodland grazing.

1:30 pm - 1:45 pm

Importance of Woodland Grazing and Research Highlights

Uma Karki, Tuskegee University

1:45 pm - 2:00 pm

Supplementation Requirement for Lactating Does Grazing in Woodlands and Possible Supplement Types

Bhuwan Shrestha, Tuskegee University

2:00 pm - 2:15 pm

Performance and Expression of Immune System of Lactating Ewes in Woodlands with Energy Protein Supplements

Santoshi Chaudhary, Tuskegee University

2:15 pm - 3:00 pm

Producers' Prospective for Woodland Grazing

Producer Panel

RIVERVIEW 5

Session 24: Plant and Environmental Science

Moderator: Rockiell Woods, NCAT Gulf States

1:30 pm - 2:15 pm

INTEGRATING COVER CROPS AND VEGETABLE PRODUCTION

Justin Duncan, National Center for Appropriate Technology

Nature does things differently than many producers. The gap between how Nature does things and how people do things often leaves space for pests and diseases to take advantage of the situation. This presentation helps farmers and gardeners bridge this gap through the scientific examination of how to integrate the advantages of cover crops into vegetable production. It draws from research and personal experience, which will give the attendees an understanding of how the facets of different disciplines can come together to build truly resilient farming systems.

2:15 pm - 3:00 pm

MAKING ENVIRONMENT AND LAND SAFE (M.E.A.L.S)

Kay Bell, National Women in Agriculture Association

Making Environment and Land Safe is a workshop that will motivate gardeners, farmers, Earth activists, and landowners to take care of their land using different meals. The M.E.A.L.S. workshop will give the audience safe techniques to grow their produce. The M.E.A.L.S. Workshop will give the audience different approaches to improving their soil by using meals. The Audience will learn how natural meals will help release nutrients to the plants. The Audience will learn how meal will help the soil to retain moisture, reduce compaction, reduce surface crusting, and increase water infiltration into the soil. The M.E.A.L.S. Workshop will help to build a strong foundation for higher crop yield and resiliency to environmental stresses.

3:00 pm - 3:30 pm Break & Visit with Exhibitors - Concourse All

3:30 pm - 5:00 pm Concurrent Sessions V - See Below

MONTGOMERY 5

Session 25: Heirs' Property and Generational Land Loss II

Moderator: Clayton Michaud, USDA Economic Research Service

Heirs' Property, Land Ownership, Retention, and the Creation of Generational Wealth Robert Zabawa, Tuskegee University

MONTGOMERY 7

Session 26: Are Forages Enough for Beef Cows? An Overview of Beef Cattle Programming for The Years 2021–2022

Moderator: Clarissa Harris, Tuskegee University

Presenters: Frank Abrahamsen, Chuck Okere, Nar Gurung, George Hunter, and Clarissa Harris,

Tuskegee University

Nutrition is the basis of all sustainable beef operations. Over the past year, the Tuskegee University Cooperative Extension Program has conducted workshops on improving the sustainability of beef operations with a focus on nutrition/forages, health, and marketing. These programming opportunities have attracted producers across the entire southeast.

RIVERVIEW 2

Session 27: Toward Transformative Education Using an Ecowomanist Approach for Regenerative Development

Moderator: LaTanya Hunt-Haralson, Tuskegee University

Presenter: Christina Hylton, Tuskegee University

RIVERVIEW 3

Session 28: Innovations on The Farm

Moderator: Lonnie Hobbs, Jr., Kansas State University

Start-Up Farmer, Small Scaled, Or Limited Resourced? Don't Worry, Be Happy. Somehow, We've Got Your Back Covered

Sena Ahiabor, Desmond Mortley, Raymon Shange, Conrad Bonsi, Anthony Kumi, Tuskegee University

PASTURE PORK PRODUCTION

Ruth Canada & Ellen Brown, Heifer International/USA

Evaluation of Produce Safety Education Resources to Support Learning and Motivation of Fresh Produce in Iowa

Shannon Coleman, Smaranda Andrews, Manreet Bhullar, Isabel Coll, Yalitza Curiel, Ellen McIntosh, and Allison Anderson, Iowa State University

RIVERVIEW 4

Session 29: Overview of FarmersClubUSA™

Moderator: Gwen Harris, Tuskegee University **Presenter:** Mel Dowdell, IVI Media Group, LLC

RIVERVIEW 5

Session 30: Marketing Options for Wine Makers

Moderator: Youssouf Diabate, Tuskegee University **Presenter:** Marcia Jones, Urban Connoisseurs

RIVERVIEW 6

Session 31: Overview of The Agmissions Program

Moderator: George Hunter, Tuskegee University

This training will discuss climate—smart technologies. Climate—smart technologies are a host of clean low greenhouse gas emission technologies that help to facilitate adaptation and mitigation to achieve resilience, directly and indirectly, against climate change impacts. This training will give the audience a basic understanding of climate—smart terminology and an overview of the various climate—smart technologies that help reduce greenhouse gases (GHSs), including renewable energies such as wind energy, solar power, and hydropower. This training will also provide an overview of sound climate—smart agriculture, such as regenerative farming and precision agriculture. Finally, this training will provide farmers with information on the various programs designed to help with sustainability.

RIVERVIEW 8

Session 32: Barriers Faced by Socially Disadvantaged Farmers and Ranchers and Access to Capital—Policy Center Research Analyst Update

Moderator: Rodney Stone, USDA

Presenter: Kara Woods, SDFR Policy Research Center

The Research Analyst from The Socially Disadvantaged Farmers and Ranchers Policy Research Center (The Policy Center) will provide an update of the work on on-going research projects dealing with access to capital for Black and other SDFRs. Access to capital has a significant impact on potential short–term income and long–term wealth creation among African American socially disadvantaged farmers, landowners, families, and communities. The discussion will provide impactful data highlighting the effects of access to capital on farmers, ranchers, individuals, as well as communities. Discussion will include an overview of the varying research projects methods, data analysis, and recommendations for the 2023 Farm Bill.

5:00 pm - 5:30 pm Exhibit Area Closed and Removal of Exhibits

6:30 pm - 9:00 pm GWC Awards Banquet - Ballrooms B, C, D, & E

PROFESSIONAL POSTERS

- Programmable Plant Systems A Vision for a Future of Sustainable Agriculture Abraham Stroock, Susan McCouch, Cornell University
- Combating COVID and Other Issues During the COVID-19 Pandemic. Lowndes County: A Model for COVID-19 Vaccination, Testing, and Education Strategies

 Arthur Nelson¹, A. D. Alexander¹,², D. Maxwell-Stafford³ M. Alexander⁴, V. Alexander⁴, M.

 Antoine², K. Calhoun⁴, D. Calhoun⁴, J. Boone¹, B. Carter⁴, J. Cooper⁴, S. Croft⁴, J. Davidson¹,², C.

 Davis¹,⁵,⁶, W. Dean-Colomb¹,⁵, D. Eaves²,³, D.H, Eaves², F. Forester⁴, M. Frazier⁴, P. Guillette⁴,⁻,

 L. Hunt-Haralson¹,², C. Hoffman¹,³, F. Holston¹, K. Johnson⁴, A. Jones¹, K. Love⁴, M. Martin¹, L.

 Maxwell³, J. Mori¹, N. Moss³, O. Neal⁴, S. Payne¹,², B. Smith⁴, N. Shahi¹, S. Suther⁵, E. Taha¹, T.

 Tiller¹, S. Veeramasu¹, Whittington¹, and R. Shange¹,²

¹Tuskegee University; ²Tuskegee Cooperative Extension Program, Tuskegee University; ³Rhema Healthcare and Wellness; ⁴Tuskegee Community Partners; ⁵Tuskegee Area Health Education Center, ⁶Tuskegee Health Disparities and COVID-testing Lab; ⁷Choose Healthy Life; ⁸Macon County Commission; ⁹Florida A&M University

- Barrier to Consumption of Fresh Fruits and Vegetable Among Consumers in Alabama Black Belt Counties
 Amya Johnson, Nevada Jones, Vanessa Lesure, Tuskegee University
- The Rural Alabama Vaccination Education and Events (RAVE2) Program. Barbour County: A Model for COVID-19 Vaccination, Testing and Education Strategies

Beverly Smith, D. Alexander^{1,2,} D. Maxwell–Stafford³ M. Alexander⁴, V. Alexander⁴, M. Antoine², K. Calhoun⁴, D. Calhoun⁴, J. Boone¹, B. Carter⁴, J. Cooper⁴, S. Croft⁴, J. Davidson^{1,2}, C. Davis1,5,6,, W. Dean–Colomb^{1,5}, D. Eaves^{2,3}, D.H, Eaves², F. Forester⁴, M. Frazier⁴, P. Guillette^{4,7}, L. Hunt–Haralson^{1,2}, C. Hoffman^{1,3}, F. Holston¹, K. Johnson⁴, A. Jones¹, K. Love⁴, M. Martin¹, L. Maxwell8, J. Mori¹, N. Moss³, O. Neal⁴, S. Payne^{1,2}, B. Smith⁴, N. Shahi¹, S. Suther⁹, E. Taha¹, T. Tiller¹, S. Veeramasu¹, Whittington¹, and R. Shange^{1,2}

¹Tuskegee University, Tuskegee, AL 36088; ²Tuskegee Cooperative Extension Program, Tuskegee University, Tuskegee, AL 36088; ³Rhema Healthcare and Wellness, Tuskegee, AL 36083; ⁴Tuskegee Community Partners, Tuskegee, AL 36083; ⁵Tuskegee Area Health Education Center, Tuskegee, AL 36083; ⁶Tuskegee Health Disparities and COVID–testing Lab; ⁷Choose Healthy Life, *Tuskegee, AL 36083; ⁸Macon County Commission; ⁹Florida A&M University, Tallahassee, FL 32307*

• The Rural Alabama Vaccination Education and Events (RAVE2) Program. Bullock County: A Model for COVID-19 Vaccination, Testing and Education Strategies

Chequetta Johnson,², D. Alexander^{1,2}, D. Maxwell–Stafford³ M. Alexander⁴, V. Alexander⁴, M. Antoine², K. Calhoun⁴, D. Calhoun⁴, J. Boone¹, B. Carter⁴, J. Cooper⁴, S. Croft⁴, J. Davidson^{1,2}, C. Davis^{1,5,6}, W. Dean–Colomb^{1,5}, D. Eaves^{2,3}, D.H, Eaves², F. Forester⁴, M. Frazier⁴, P. Guillette^{4,7}, L. Hunt–Haralson^{1,2}, C. Hoffman^{1,3}, F. Holston¹, K. Johnson⁴, A. Jones¹, K. Love⁴, M. Martin¹, L. Maxwell⁸, J. Mori¹, N. Moss³, O. Neal⁴, S. Payne^{1,2}, B. Smith⁴, N. Shahi¹, S. Suther⁹, E. Taha¹, T. Tiller¹, S. Veeramasu¹, Whittington¹, and R. Shange^{1,2}

¹Tuskegee University, Tuskegee, AL 36088; ²Tuskegee Cooperative Extension Program, Tuskegee University, Tuskegee, AL 36088; ³Rhema Healthcare and Wellness, Tuskegee, AL 36083; ⁴Tuskegee Community Partners, Tuskegee, AL 36083; ⁵Tuskegee Area Health Education Center, Tuskegee, AL 36083; ⁶Tuskegee Health Disparities and COVID-testing Lab; ⁷Choose Healthy Life, Tuskegee, AL 36083; ⁸Macon County Commission; ⁹Florida A&M University, Tallahassee, FL 32307

- Investigating Rootstocks for Container Peach Production Elina Coneva, Auburn University
- Risk Assessment of Pesticides Spray Drift from Agricultural Applications: A Case Study of Macon County, AL.

Gamal El Afandi, Hossam Ismael, Ramble Ankumah, and Souleymane Fall, Tuskegee University

 Center for Food Systems, Rural Prosperity and Environmental Sustainability (CFSRPES)

Walter Hill, Raymon Shange, Tasha Hargrove, Conrad Bonsi, Tuskegee University James Bukena, Alabama A & M University, Kathleen Chi Liang, North Carolina A & T University, Vonda Richardson, Florida A & M University, and John Clendaniel, Delaware State University

 UAPB Vaccinate with Confidence Educating African American Adults to Increase their Vaccination Rates

Iris Crosby, Henry English, T. Henson, University of Arkansas at Pine Bluff

- Rural Sociology's Hidden History of Race, Racism, and Social Justice Julie Zimmerman, University of Kentucky
- The Rural Alabama Vaccination Education and Events (RAVE2) Program. Macon County: A Model for COVID-19 Vaccination, Testing and Education Strategies

 Katrina Love², D. Alexander^{1,2}, D. Maxwell-Stafford³ M. Alexander⁴, V. Alexander⁴, M. Antoine², K. Calhoun⁴, D. Calhoun⁴, J. Boone¹, B. Carter⁴, J. Cooper⁴, S. Croft⁴, J. Davidson^{1,2}, C. Davis^{1,5,6}, W. Dean-Colomb^{1,5}, D. Eaves^{2,3}, D.H, Eaves², F. Forester⁴, M. Frazier⁴, P. Guillette^{4,7}, L. Hunt-Haralson^{1,2}, C. Hoffman^{1,3}, F. Holston¹, K. Johnson⁴, A. Jones¹, K. Love⁴, M. Martin¹, L. Maxwell⁸, J. Mori¹, N. Moss³, O. Neal⁴, S. Payne^{1,2}, B. Smith⁴, N. Shahi¹, S. Suther⁹, E. Taha^{1,} T. Tiller¹, S. Veeramasu¹, Whittington¹, and R. Shange^{1,2}

¹Tuskegee University, Tuskegee, AL 36088; ²Tuskegee Cooperative Extension Program, Tuskegee University, Tuskegee, AL 36088; ³Rhema Healthcare and Wellness, Tuskegee, AL 36083; ⁴Tuskegee Community Partners, Tuskegee, AL 36083; ⁵Tuskegee Area Health Education Center, Tuskegee, AL 36083; ⁶Tuskegee Health Disparities and COVID−testing Lab; ⁷Choose Healthy Life, Tuskegee, AL 36083; ⁸Macon County Commission; ⁹Florida A&M University, Tallahassee, FL 32307

- Effect of Hempseed Meal on Cell-Mediated Immune Response and Serum Biochemistry Profile in Boer X Spanish Intact Male Goats Khim Ale, Frank Abrahamsen, Reshma Gurung, Tej Gautam, Santosh Chaudhary, Nar Gurung, Tuskegee University
- Tuskegee University RAVE Boosts Community Confidence in COVID-19 Vaccines

Sandra Suther, Florida A&M University, April Jones, Febreu Holston, Maya Martin, Deloris Alexander, Tuskegee University

 Characterization of 2,4-D Tolerance in Cotton Chromosome Substitution Lines Using a Dose-Response Assay

The Ming Tseng, Mississippi State University, W.D. Matte, Mississippi State University, Universidade Estadual de Maringá, L. Perez, Mississippi State University, J.C. Ferguson, Mississippi State University, R.S. Oliveira Jr., Universidade Estadual de Maringá, S. Saha, USDA ARS

- The Mental Health & Resilience of the Minority Farmer: A Casualty of Sustained Racism Tia Muti'ah Lennora Pierrot, BABI
- Geospatial Ecosystem Assessment Through Water Samples from Farms in Mississippi Major Land Resource Area That Support Grazing Land Conservation Tolulope Fiola, Florida A&M University, Gbemisola Akinbi, Florida A&M University, Lin Qi, Florida State University, Victor Ibeanusi, Florida A&M University, Benjamen Mwashote, Florida A&M University, Veera Badisa, Florida A&M University, Gang Chen, Florida State University, Satyanarayan Dev, Florida A&M University
- Agriculture Education Programs at 1890 Land Grant Institutions
 Ronald Davis, Brandon Thompson, Makeda Nurradin, Garrett Hancock, Dr. Jason McKibben,
 Auburn University
- Assessing Campus Climate for College of Agriculture Students at Kansas State University

Zeila Wiley and Lonnie Hobbs, Jr., Summer Santillana, Raymond Thomas, and Andrew Barkley Kansas State University

Gamma Sigma Delta-PAWC Student Competitions

GRADUATE ORAL

1. LEVEL OF AWARENESS AND KNOWLEDGE OF GHANAIAN FARMERS OF GENETICALLY MODIFIED (GM) RICE

Presenter: ANNIE NICOLE NSAFOAH, Kwame Nkrumah University of Science and Technology, Ghana

Advisor: Simon Fialor

2. IMPACT OF INTEGRATED ORGANIC CORN SOYBEAN CROP AND LIVESTOCK ROTATION SYSTEM ON SOIL HEALTH AND SOIL MICROBIAL ACTIVITIES

Presenter: MANOJ PAUDEL, Kentucky State University

Advisor: Shawn T. Lucas

3. SOLUBILIZATION OF PHOSPHORUS BY *FAGOPYRUM ESCULENTUM* IN SOILS TREATED WITH A LOW REACTIVE TOGO PHOSPHATE ROCK

Presenter: BERSON J. VALCIN, Tuskegee University

Advisor: Kokoasse Kpomblekou-A

4. IMPACTS OF FEEDING MALE GOATS WITH L-CARNITINE ON THEIR SEMEN QUALITY

Presenter: JALANI BROWN, Fort Valley State University

Advisor: Adel R. Moawad

5. DIFFERENTIAL IMPACT OF HEIR PROPERTY ON LAND VALUE WITHIN TUSKEGEE CITY LIMITS.

Presenter: OBIANUJU EGIEBOR, Tuskegee University

Advisor: Robert Zabawa

6. CO-DIGESTION OF THE COVER CROPS FOR BIO-METHANE PRODUCTION

Presenter: HILARIE UWAMAHORO, Tuskegee University

Advisors: Kokoasse Kpomblekou-A, Marceline Egin, and Deloris Alexander.

7. TESTING BACTERIAL COLONIES FOUND IN SOIL FOR ANTIMICROBIAL PROPERTIES AGAINST ESKAPE SPECIES

Presenter: RAYMOND ELDER, Tuskegee University.

Advisor: Sheritta Fagbodun

8. PEPTIDOGLYCAN HYDROLASES AS ALTERNATIVES TO ANTIBIOTICS TO TREAT STREPTOCOCCOSIS AUREUS INFECTIONS

Presenter: ANNIK SEGREE, University of Arkansas at Pine Bluff Advisors: D. Donovan., J. Abernathy, C. Shoemaker, and G. Ramena.

9. USE OF MODIFIED CRAWFISH SHELL BIOCHAR FOR MICROPLASTIC RETENTION AND SULFAMETHOXAZOLE ADSORPTION

Presenter: BASYAL SUDARSHAN, University of Arkansas at Pine Bluff

Advisor: Hao Chen

10. IMPACTS OF CLIMATE CHANGE ON AQUATIC FAUNA IN URBAN ECOSYSTEMS

Presenter: OPEYEMI OLADIGBOLOU, Southern University and A&M College

Advisor: Yaw Twumasi

11. DEVELOPMENT OF AN ETHOGRAM FOR COMPUTER-BASED DETECTION OF ESTRUS IN HOUSED DOES

Presenter: CHRISTIAN PETERSON, Tuskegee University

Advisors: Olga Bolden-Tiller, Joseph Quansah, and Jasmine Boone

12. PLEUROTUS OSTREATUS CAN SIGNIFICANTLY IMPROVE THE NUTRITIVE VALUE OF LIGNOCELLULOSIC CROP RESIDUES

Presenter: LYDIA KEHINDE OLAGUNJU, North Carolina A&T State University

Advisor: Uchenna Anele

13. BIOPROCESS OPTIMIZATION OF *RHODOTORULA GLUTINIS* FOR CAROTENOID PRODUCTION, USING SORGHUM SYRUP AS A CARBON SOURCE

Presenter: KEVAUGHN S. PROUT, Alcorn State University

Advisor: Ananda Nanjundaswamy.

14. SURVEY AND INVESTIGATION OF SWEET POTATO VIRAL DISEASES IN THREE REGIONS OF GUYANA USING REVERSE TRANSCRIPTASE-POLYMERASE CHAIN REACTION

Presenter: SHERMAINE J. CRITCHLOW, University of Arkansas at Pine Bluff

Advisors: Angela Alleyne and Sathish Ponniah

15. SEM SIZE ANALYSIS OF GOLD NANOPARTICLES USED IN THE DETECTION OF AFLATOXIN B1

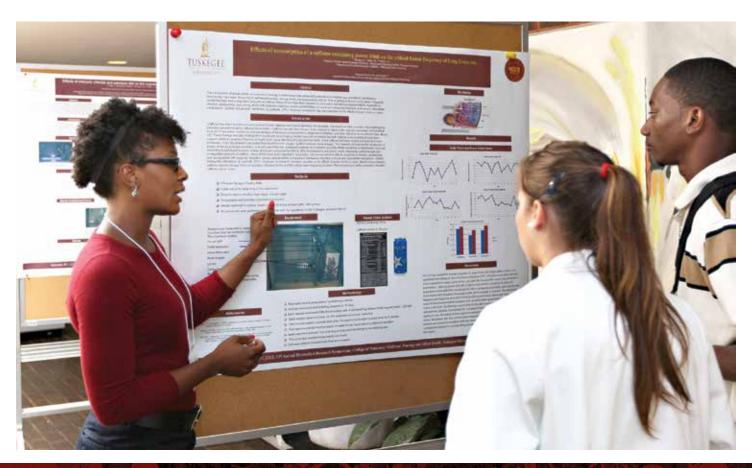
Presenter: AMBER DAVENPORT, Fort Valley State University

Advisor: Hari Singh

16. ACROSOME INTEGRITY AND MITOCHONDRIAL ACTIVITY OF GOAT SPERMATOZOA COLLECTED FROM DIFFERENT BREEDS

Presenter: TIFFANY REESE, Fort Valley State University

Advisor: Adel R. Moawad



17. THE IMPORTANCE OF SELF-SUSTAINABILITY PRACTICES ON THE UNIVERSITY OF ARKANSAS AT PINE BLUFF AGRICULTURAL RESEARCH FACILITY (FARM) IN PINE BLUFF

Presenter: BERNARD A. IWEGBU, University of Arkansas at Pine Bluff

Advisors: E. K. Asiamah, and V. Wiley.

18. SPATIOTEMPORAL TRENDS OF FOOD INSECURITY WITHIN THE ALABAMA BLACK BELT REGIONS

Presenter: LYDIA E. EBBUAH, Tuskegee University Advisors: Robert Zabawa and Souleymane Fall

19. THE INFLUENCE OF LAND USE ON HYDRAULIC CONDUCTIVITY OF EXPANSIVE CLAYEY SOILS.

Presenter: GEETA KHAREL, Auburn University

Advisor: Thorsten Knappenberger

20. THE POTENTIAL USE OF MAGNETIC NANOPARTICLES AS A BIOSENSOR FOR THE DETECTION OF SALMONELLA TYPHIMURIUM

Presenter: KINGSLEY BENTUM, Tuskegee University

Advisor: Woubit Abebe

21. INFLUENCE OF SUPPLEMENT TYPE ON THE PREVALENCE OF GASTROINTESTINAL PARASITES IN NURSING EWES AND LAMBS RAISED IN WOODLANDS

Presenter: SANTOSHI CHAUDHARY, Tuskegee University

Advisor: Uma Karki

22. OVEREXPRESSION OF THE CANDIDATE *PITA 2* IN RICE (*ORYZA SATIVA* L. JAPONICA CV. NIPPONBARE) FOR RESISTANCE AGAINST BLAST FUNGUS (*MAGNAPORTHE ORYZAE*)

Presenter: REGHAN MUTETHIA, University of Arkansas at Pine Bluff

Advisors: Yulin Jia, and Sathish K. Ponniah

23. PEPTIDOGLYCAN HYDROLASES TO TREAT STAPHYLOCOCCUS AUREUS INFECTIONS

Presenter: SHARON GUDAPATI, University of Arkansas at Pine Bluff Advisor: D. Donovan., M. Smeltzer., D.Nelson., and G. Ramena

24. OPTIMIZING TURMERIC PRODUCTION IN RAISED BEDS IN USDA ZONE 8

Presenter: NICOLE MULLEN, Fort Valley State University

Advisor: Bipul Biswas

25. FEEDING MALE GOATS WITH LESPEDEZA IMPROVES THEIR SEMEN QUALITY AND FERTILITY PARAMETERS

Presenter: RANIA HEIKAL, Fort Valley State University

Advisors: Thomas Terrill and Adel R. Moawad

26. INFLUENCE OF L-CARNITINE DIETARY SUPPLEMENTATION ON THE QUALITY OF COOLED GOAT SEMEN

Presenter: BRYANNA HOLMES, Fort Valley State University

Advisor: Adel Moawad

GRADUATE POSTER

27. INVESTIGATING THE ASSOCIATION OF NON-POINT SOURCE POLLUTION IN LOW-LEVEL CONTAMINATED WATER SYSTEMS AND THE IMPACT OF TROPHIC BIOACCUMULATION

Presenter: BRIANNA A. SMITH, Tuskegee University

Advisors: Rashida Farid-Tilghman, L. Ogden, and Richard Whittington.

28. BACILLUS SPECIES AS BIOCONTROL AGENT FOR HEMP PATHOGENIC FUNGI

Presenter: CHINEDU D. AHUCHAOGU, University of Maryland, Eastern Shore

Advisor: Sadanand Dhekney

29. DIFFERENT METHODS OF STRESS MEASUREMENT IN LIVESTOCK: A REVIEW

Presenter: SADIKSHYA LAMSAL, Tuskegee University

Advisor: Uma Karki

30. IDENTIFYING PENAIED SHRIMP MICROPLASTIC CONSUMPTION COUPLED WITH HUMAN KNOWLEDGE OF SHRIMP AND MICROPLASTICS IN SAVANNAH, GEORGIA

Presenter: TANISHA FELTON, Savannah State University

Advisor: Sue C. Ebanks

31. UTILIZING PURPLE HULL PEAS AS A PRIMARY PROTEIN SOURCE FOR MEAT ALTERNATIVES

Presenter: ASYA MONTGOMERY, Tuskegee University

Advisor: Norma Dawkins

32. RAPID DETECTION OF AFLATOXIN B1 IN PEANUTS USING AN APTAMER-BASED DIPSTICK

Presenter: NNAMDI O. ENEH, Fort Valley State University

Advisor: Hari P. Singh

33. A STUDY ON IDENTIFYING AND OVERCOMING THE BARRIERS THAT AFRICAN AMERICAN FARMERS FACE REGARDING PARTICIPATION IN AGRICULTURAL PURSUITS WITH AN EMPHASIS ON ORGANIC AGRICULTURE.

Presenter: ALYSON H. WHITTED, Kentucky State University

Advisor: Shawn Lucas

34. DETERMINING THE EFFECT OF CHLOROPHYTA (SEAWEED) INTAKE ON THE MICROBIOTA OF YOUNG ADULTS: A COMPARISON WITH YOGURT INTAKE AND PLACEBO.

Presenter: MIRIAM HAGAN, Howard University

Advisor: Thomas Fungwe

35. DEMONSTRATING SUSTAINABILITY IN FOOD PRODUCTION THROUGH SEED PROPAGATION, SEEDLING CARE, AND MAINTENANCE

Presenter: CHRISTOPHER EDOZIE IWERIEBOR, University of the District of Columbia

Advisor: Tolessa Deksissa

36. INVESTIGATION OF *IN VITRO* CLONAL PROPAGATION OF TURMERIC GERMPLASM AND FIDELITY TESTING USING MOLECULAR MARKERS

Presenter: DARRELL SPARKS, Fort Valley State University

Advisor: Bipul Biswas

37. NOVEL TECHNOLOGY TO PRODUCE LACTIC ACID BACTERIA FOR FERMENTED FOOD PRODUCTS

Presenter: PHILIP J. YEBOAH, North Carolina A&T State University

Advisor: Salam Ibrahim

38. WATER INSECURITY IN HAITI: HOW LOCAL WATER VENDORS VIEW THE NEED FOR TESTING AND CERTIFICATION OF THEIR PRODUCT

Presenter: JEAN FRITZ SAINT PREUX, Auburn University

Advisor: Joseph Molnar

39. APPLICATION OF CELLULOSE-BASED SUPERABSORBENT HYDROGELS FOR WATER CONSERVATION AND ENHANCED PLANT GROWTH

Presenter: JACQUEZ SMITH, Fort Valley State University

Advisor: Hari Singh

40. IMMOBILIZATION OF CADMIUM IN SOIL UNDER THE INFLUENCE OF BIOCHAR

Presenter: MANZIL KAFLE, University of Arkansas at Pine Bluff

Advisor: Hao Chen

41. RELEVANCE OF FOOD INSECURITY AT TUSKEGEE UNIVERSITY

JOHNPAUL KAGULIRE, Tuskegee University

Advisors: Peter Gichuhi and Adelia Bovell-Benjamin.

42. IMPACTS OF HIGH ANTHROPOGENIC ACTIVITY ON THE FORAGING BEHAVIORS AND HABITAT UTILIZATION OF INDIVIDUAL BOTTLENOSE DOLPHINS (*TURSIOPS TRUNCATES*) IN ACTIVE AND PROTECTED WATERS WITHIN MOBILE ESTUARY IN MOBILE, ALABAMA

Presenter: KATIE C. DAMES, Tuskegee University

Advisor: Rashiah Farid-Tilghman

43. ASSESSMENT OF RESEARCH INSIGHT NEEDS OF PET FOOD DECISION-MAKERS

Presenter: LONNIE HOBBS JR, Kansas State University

Advisor: Aleksan Shanoyan,

UNDERGRADUATE ORAL

44. EATING BEHAVIORAL PATTERNS ON NUTRITION AND DISEASE IN RURAL ALABAMA COUNTIES

Presenter: GABRIELLA MCPHERSON, Tuskegee University. Advisor: Catrina Hoffman Choffman

45. ESTIMATION OF SWEET POTATO VIRUSES IN THE FOUR DIFFERENT GENERATIONS

Presenter: MASSIAH HOARD, University of Arkansas at Pine Bluff

Advisor: Sathish K. Ponniah.

46. EFFECTS OF INDUSTRIAL HEMP WAX COATING ON POSTHARVEST QUALITY OF CITRUS

Presenter: ROBERT EARL LEWIS, Prairie View A&M University

Advisor: Aruna Weerasooriya

47. INVESTIGATING INTERACTIONS BETWEEN PHYTOPLANKTON AND BACTERIA

Presenter: NAYOMI RAPIER-JONES, Tuskegee University

Advisor: Elizabeth Harvey

48. CHYMASE INHIBITORY AND FREE RADICAL SCAVENGING PROPERTIES OF SWEET POTATO.

Presenter: MADISON PURIFOY, University of Arkansas at Pine Bluff

Advisors: Sankar Devarajan and Shengyu Mu

49. SHORT-TERM FEEDING OF COMMERCIALLY AVAILABLE HIGH PROTEIN AND LIPID DIETS PRE-SPAWNING AT GOLDFISH (CRASSUS AURATUS) FARMS AS A METHOD TO IMPROVE FECUNDITY AND SPAWN.

Presenter: HANNAH KNUCKLES, University of Arkansas at Pine Bluff

Advisors: D. Perera, J.H. Jones, and S. Bhattarai.

50. BACTERIAL COLONY MORPHOLOGY OF TUSKEGEE NATIONAL FOREST SOIL

Presenter: SHERRY CANNON, Tuskegee University

Advisor: Sherrita Fagbodun

51. INVESTIGATING REPRESENTATION: TELEVISION'S INFLUENCE ON DIVERSE AUDIENCES' INTEREST IN AGRICULTURE

Presenter: OLIVIA F. COOPER, Kansas State University

Advisor: Katherine Burke

52. APPLICATIONS OF BLACK SOLDIER FLY (Hermetia illucens) LARVAE FRASS ON GROWTH AND MINERAL COMPOSITION IN BASIL (Ocimum basilicum)

Presenter: ASHLEY SELMEN, University of Arkansas at Pine Bluff

Advisors: N. ROMANO and A. K. SINHA

53. THE EFFECT OF BIODEGRADABLE POLYMER AFRO HAIR MATS DESIGNED TO CONSERVE WATER AND CREATE FIRE-RESISTANT LAWNS.

Presenter: CHERA HOWARD, Tuskegee University

Advisor: Desmond Mortley

UNDERGRADUATE POSTER

54. PRESENCE OF BACTERIA WITH ANTIMICROBIAL PROPERTIES IN SOIL SAMPLES FROM MACON COUNTY, ALABAMA

Presenter: ELISSA HALL, Tuskegee University

Advisor: Sherrita Fagbodun

55. THE SPREAD PLATE METHOD: ISOLATING BACTERIA IN SOIL SAMPLES

Presenter: CHRISTIAN JACKSON, Tuskegee University

Advisor: Jannette Bartlett

56. STREAK, PLATE, AND DILUTE FOR THE IMPORTANCE OF ISOLATING BACTERIA

Presenter: BROOKLYN ROBINS, Tuskegee University

Advisor: Sherrita Fagbodun

57. ANTIBIOTIC PROPERTIES OF BACTERIA FOUND IN TUSKEGEE UNIVERSITY

Presenter: BROOKLYN MACKLIN, Tuskegee University

Advisor: Sheritta Fagbodun

58. BACTERIA WITH ANTIBIOTIC PROPERTIES IN EVERYDAY SOIL

Presenter: ISAIAH THOMPSON-TERRY. Tuskegee University

Advisor: Sheritta Fagbodun

59. IDENTIFICATION OF DIVERSE BACTERIA WITH ANTIMICROBIAL PROPERTIES PRESENT IN SOIL USING THE BACTERIAL ISOLATION VIA SPREAD PLATING METHOD:

Presenter: KAILA FONTNO, Tuskegee University

Advisor: Yesutor Soku

60. THE IMPACT OF GARDENING ON HOUSEHOLD NUTRITION

Presenter: MARQUEZ WORTHAM, South Carolina State University

Advisor: Jackie Dallas

61. EVALUATING THE INHIBITORY EFFECT OF LIPPIA DULCIS PLANT EXTRACT ON PANCREATIC LIPASE AND α -AMYLASE ENZYMES

Presenter: SHELBY DEVEREAUX, Prairie View A&M University

Advisors: Subhani Bandara, and Aruna Weerasooriya

62. MICROBIAL POPULATIONS ON THE FRESH PRODUCE COLLECTED FROM THE COMMUNITY GARDEN

Presenter: LENAYE PALMER, Prairie View A&M University Advisors: M. Moussavi, S. Bandara, A. Geremew and L. Carson.

63. EFFECTS OF ZINC OXIDE NANOPARTICLES ON MUSTARD GREENS

Presenter: DE'ZARAE GUTHRIE, Prairie View A&M University

Advisors: Addisie Geremew and Laura Carson.

64. EVALUATION OF MEASURED SATURATED HYDRAULIC CONDUCTIVITY FOR THREE-GRADE SANDS AND THEIR COMBINATION

Presenter: BRYAN ROBINSON, Prairie View A&M University

Advisors: Almoutaz Elhassan, Anoop Veettil, Ripendra Awal, and Ali Fares.

65. SOIL COMPACTION SPATIAL VARIABILITY IN THE WOCKLEY SOIL IN PVAMU STUDENT GARDEN

Presenter: MAYA L. BROWN. Prairie View A&M University

Advisor: Richard W. Griffin.





Tomorrow's Agricultural Professional Symposium

Professional Development Workshop for Collegiates

8:00 am - 8:00 pm, Sunday, November 13, 2022

Renaissance Montgomery Hotel at the Convention Center 201 Tallapoosa St, Montgomery, AL 36104

*Transportation provided between TU Unveiling Statue and Renaissance Hotel

8:00 am - *Bus to depart from Tuskegee University to Renaissance Hotel

8:45 am – Check In

9:00 am – MEAT Matters

10:00 am - The Autonomous Farm

11:00 am – Beyond the B.S.

12:00 pm – Lunch on the Riverwalk (for registered participants)

*Bus to depart from Renaissance Hotel to Tuskegee University

1:00 pm - *Bus depart from TU, returning to Renaissance Hotel

Ag Professionals Discussion Panel

2:30 pm – Break

3:00 pm — Emerging Technologies using Unmanned Aerial Vehicle (Drones)

5:00 pm – Break

6:00 pm – MANRRS Banquet

**Not a member yet? Become one – contact Oliva Bowles, Chapter President at obowles0278@tuskegee.edu

8:00 pm – Depart <u>from</u> the Renaissance Hotel to Tuskegee University

Use the link below or scan the QR code to pre-register by November 9th to win prizes!





Bit.ly/2022CollegiateTAPS



Tomorrow's Agricultural Professionals Symposium (TAPS) for High School Youth November 12-13, 2022

| Time | Activity | Location | Presenter(s) / Point of Contact |
|-------------------|--|--------------------------------|---|
| | Saturday | y, November 12, 2022 | |
| :00 PM - 4:00 PM | TAPS Registration Check-In | Henderson Hall Atrium | |
| :00 PM - 3:00 PM | The Peacock Tract Fall Gathering | TU Urban Ag Center | |
| 1:00 PM - 4:00 PM | Tuskegee University Tour/Moton Field | Various Locations | |
| 4:00 PM | Snack Break | Henderson Hall Atrium | |
| 4:30 PM | Growing with Agriculture - Funding for College! | Henderson Hall Auditorium | Mr. Rodney Stone, USDA 1890 Liason |
| 5:00 PM | Sustainable Opportunities from the Alabama Youth Institute | Henderson Hall Auditorium | Lakiah Clark, Program Coordinator & Angel Lindsey, Tuskegee Univ. Student |
| 6:00 PM | Dinner | Henderson Hall Atrium | |
| 6:45 PM | Transition to Montgomery | | |
| 7:45 PM | Hotel Check-In** | Renaissance Montgomery | Ms. Janet Sullen & Dr. Clarissa Harris |
| 8:15 AM | | AMC Festival Plaza 16 | |
| 8:45 PM | Wakanda Forever | 7925 Vaughn Rd, Montgomery, AL | |
| 9:15 PM | | 36116 | |
| | Sunday, | November 13, 2022 | |
| 7:00 AM | Hotel Check Out** | Renaissance Montgomery | |
| 7:30 AM | Breakfast Snack | Renaissance Montgomery | |
| 8:00 AM | TAPS Registration / Check-In | Renaissance Montgomery | |
| 9:00 AM | Welcome and Opening Remarks | Renaissance Montgomery | |
| 9:15 AM | Jr. MANRRS Impromptu Speaking Contest | Renaissance Montgomery | Tuskegee University GWC MANRRS |
| | Money Management | Renaissance Montgomery | Daniel Sullen, 4-H Foundation Regiona Extension Agent, Auburn University |
| 10:00 AM | MEAT Matters | Renaissance Montgomery | Dr. Clarissa Harris, Assistant Professor Tuskegee University |
| 10:45 AM | BREAK | | |
| 11:00 AM | Microsoft Farm Beats | Renaissance Montgomery | Lakiah Clark, Program Coordinator, Tuskegee University |
| 11:45 AM | Hotel Check Out** | Renaissance Montgomery | |
| 12:00 PM | LUNCH at MONTGOMERY RIVERWALK | | |
| 1:00 - 4:00 PM | Drone Applications and Wildland Fire Management | Renaissance Montgomery | Alabama A&M University |
| 4:15 PM | Jr. MANRRS - Membership & Benefits | Renaissance Montgomery | Tuskegee University GWC MANRRS |
| 5:00 PM | FREE TIME - Prepare for Banquet/Visit Exhibits | | |
| 6:00 PM | MANRRS Student Recognition and Award Banquet (Business Attire) | Renaissance Montgomery | Keynote Speaker: Karis Gutter, Corteva Agriscience |

^{**}Lodging scholarships are available for up to 75 participants who travel within a group and will include support for ONE hotel night (Saturday, Nov. 12, 2022)

| TAPS Event Sites | | | |
|--|--|--|--|
| Henderson Hall - Tuskegee University 1200 W. Montgomery Road, Tuskegee, AL 36088 | | | |
| Renaissance Montgomery Hotel - 201 Tallapoosa Street, Montgomery, AL 36104 | | | |
| Tuskegee University Urban Ag Center - 595 Grady Streer, Montgomery, AL 36108 | | | |



In 2002, the College of Agriculture, Environment and Nutrition Sciences at Tuskegee University began its efforts in enhancing organic agriculture in the southeast. In 2016, the program made huge gains after receiving a \$3M grant from USDA-OREI, which established the Southeast Organic Farming Partnership, led by Tuskegee University in collaboration with three other institutions across three states. This project evaluated the cost effectiveness of certified organic pesticides on a variety of fruits and vegetables. From this project, a number of educational programs evolved, promoting organic farming throughout the southeast. Since that time, Tuskegee University has continued to play a key role in organic agriculture research and education with over \$500,000 in funding in the past year.

To further enhance the impact of the program, in 2018 Tuskegee University established a certified a 20-acre organic agriculture farm. The farm not only supports research, but also educational activities, including two university courses in organic agriculture, informal training programs, such as the Organic Agriculture Internship Program, which is open to high school, undergraduate and graduate students. These outstanding



interns have fun as they work together to build skills in teamwork and communication, allowing them to learn from each other, raise crops, and stimulate learning outside a traditional school curriculum. The farm produces organic fresh fruits and vegetables (blueberries, Champion collards, Dagan Brussel sprouts, Imperial broccoli, Negovia carrots, Paris Island Romaine lettuce, Red mustards, Skywalker cauliflower, sweet potato, and White Russian kale) and as a part of the organic agriculture educational activities, these products are marketed to the local community to promote organic foods in Alabama and the southeast.



The Organic Agriculture Program strives to become an epicenter in the southeast. Indeed, the future of the Tuskegee University Organic Agriculture Program is brighter than ever and the team (Kokoasse Kpomblekou-A, Franklin Quarcoo, Adelia Bovell-Benjamin, Raymon Shange, Youssouf Diabate, and Desmond Mortley) looks forward having an even greater impact as it moves to establish an Organic Agriculture Institute at Tuskegee support University with from stakeholders.







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PAWC LOCAL PLANNING MEETING

Program: Tasha Hargrove, Robert Zabawa, Conrad Bonsi, Raymon Shange,

Walter Hill & Olga Bolden-Tiller

Sponsorship: Tasha Hargrove, Olga Bolden-Tiller, Robert Zabawa, Walter Hill

Finance: Shannon Payne, Elizabeth Whetstone, De Ambria Abner, and Tasha Hargrove

Registration: Gwen Harris, Beverly Green, Elizabeth Whetstone, Shannon Payne, Doris Eaves,

Karen Craig, Shirley Brown, Wanda Carpenter-Morrow, De Ambria Abner,

Tasha Hargrove, and Charley Colley

Help Desk: Gwen Harris, Beverly Green, Elizabeth Whetstone, Shannon Payne,

Doris Eaves, Karen Craig, Shirley Brown, and De Ambria Abner

Posters: Franklin Quarcoo, Beverly Green, Gwen Harris, Doris Eave, Doug Eaves,

Edward Gray, Rui Chen, Tej Gautam, Clarissa Harris, and Barrett Vaughan

Exhibits: Gwen Harris, Shirley Brown, Beverly Green, Tasha Hargrove, and Karen Craig

Student Competition: Franklin Quarcoo, Beverly Green, Norma Dawkins, Barrett Vaughan,

Gregory Bernard, Tasha Hargrove, Anthony Kumi, Robert Zabawa, Osagie Idehen, Tuskegee University Chapter of Gamma Sigma Delta

Marketing: Tasha Hargrove, Karen Craig, Olga Bolden-Tiller, Charley Colley,

and Tuskegee University Cooperative Extension Program

Evaluation: Rui Chen, Karen Craig, Tasha Hargrove, and Robert Zabawa

Technology & Website: Peter Kanyi, Karen Craig, Doug Eaves, and Tasha Hargrove

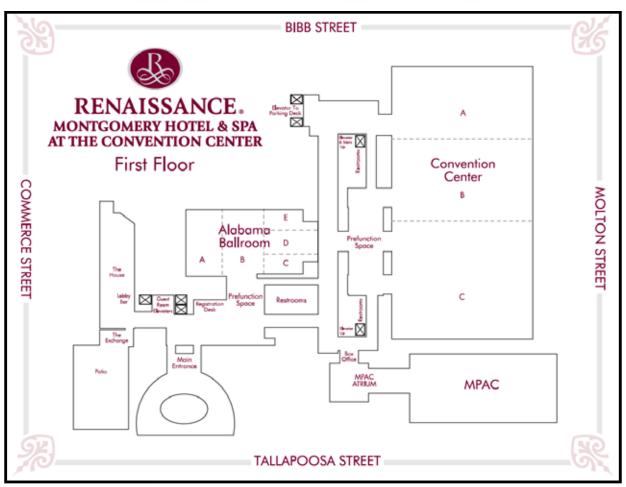
TAPS: Lakiah Clark, Janet Sullen, Clarissa Harris, Olga Bolden-Tiller

MANRRS: Clarissa Harris, Brianna Bynum, and TU MANRRS Chapter

Special Sessions: Rashidah Farid, Robert Zabawa

Awards: Robert Zabawa, Olga Bolden-Tiller, Walter Hill, and Karen Craig

PAWC: Tuskegee University Faculty, Staff, Students, and Cooperative Extension Program



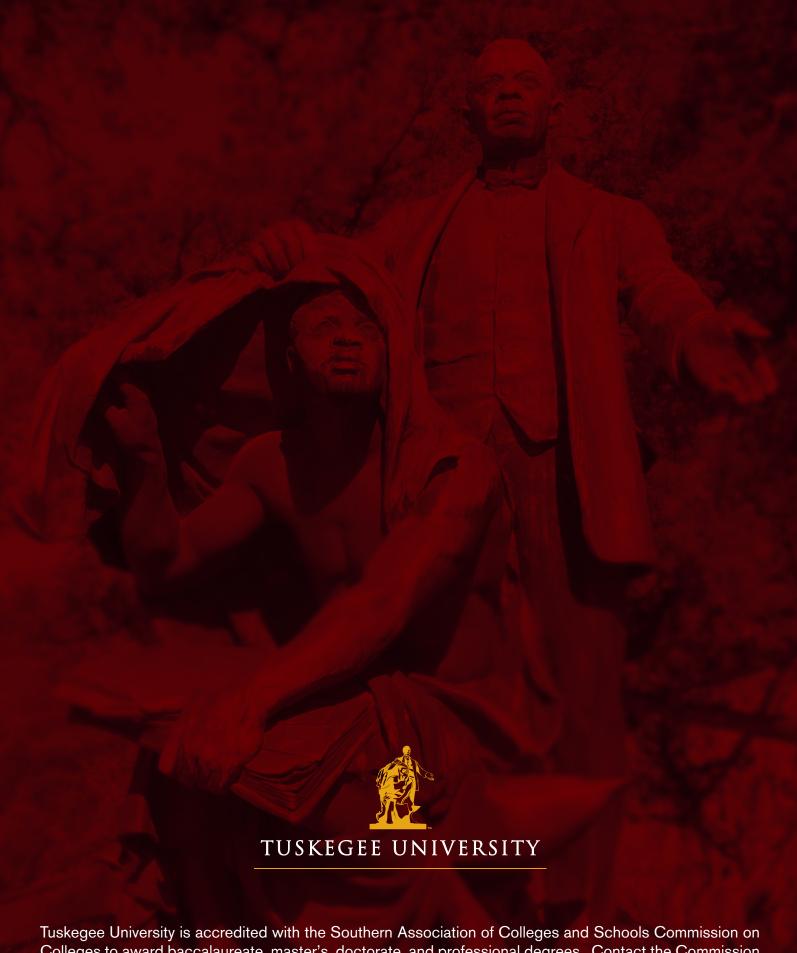


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