

The 82ND *Annual*

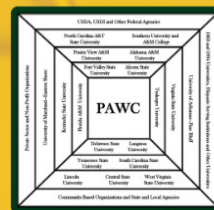


PROFESSIONAL AGRICULTURAL WORKERS CONFERENCE

GLOBAL STEWARDSHIP

ADDRESSING CLIMATE
AND SUSTAINABILITY
CHALLENGES FOR
FOOD SECURITY

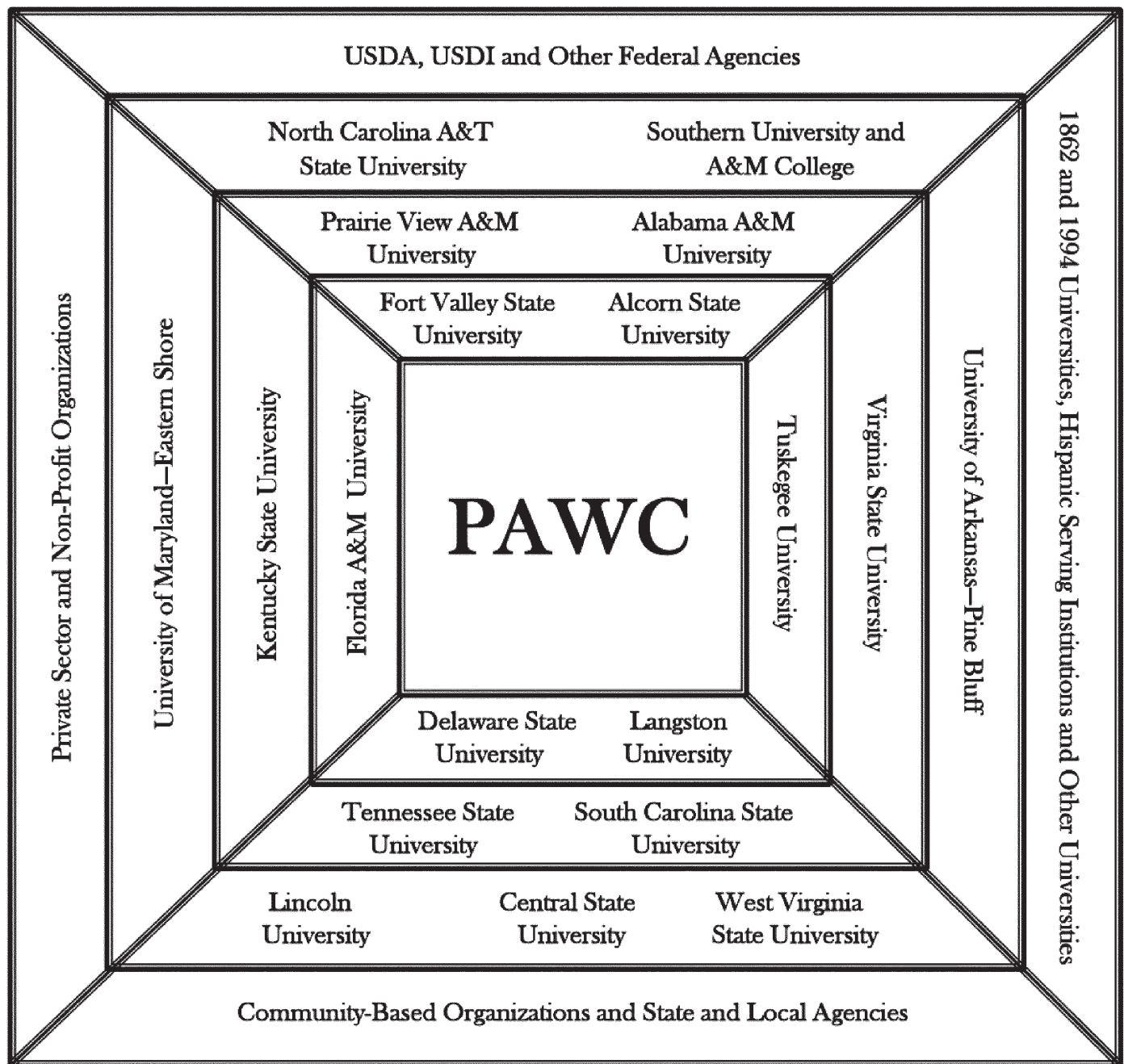
November
17-19 2024



RENAISSANCE MONTGOMERY HOTEL - 201 TALLAPOOSA ST MONTGOMERY, AL

FOR MORE INFORMATION PLEASE VISIT WWW.PAWC.INFO

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.

CONFERENCE MOBILE APP



We have created a mobile app for the 82nd PAWC. Use the app to plan your conference experience, stay updated with the latest news and announcements, see your schedule, view presentations, submit evaluations, ask questions, and more!

Instructions for Using the WhoVa App

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



PAWC Bus Schedule

November 17-19, 2024



Sunday, November 17, 2024

Trip #	From:	To:	Departure Time
1	Tuskegee University Parking Lot – BTW Oaks (Outside of the Gate)	Renaissance Montgomery Convention Center	7:00 am
2	Tuskegee University Parking Lot – BTW Oaks (Outside of the Gate)	Renaissance Montgomery Convention Center	11:00 AM
3	Tuskegee University Parking Lot – BTW Oaks (Outside of the Gate)	Renaissance Montgomery Convention Center	2:00 PM
4	Tuskegee University Parking Lot – BTW Oaks (Outside of the Gate)	Renaissance Montgomery Convention Center	4:30 PM
5	Renaissance Montgomery Convention Center	Tuskegee University Police Department – (Beside the Hello Park & Office of the Gate)	8:00 PM
6	Renaissance Montgomery Convention Center	Tuskegee University Police Department – (Beside the Hello Park & Office of the Gate)	10:00 PM

Monday, November 18, 2024

Trip #	From:	To:	Departure Time
1	Tuskegee University Parking Lot – BTW Oaks (Outside of the Gate)	Renaissance Montgomery Convention Center	6:45 AM
2	Renaissance Montgomery Convention Center	Tuskegee University Police Department – (Beside the Hello Park & Office of the Gate)	8:00 PM

Tuesday, November 19, 2024

Trip #	From:	To:	Departure Time
1	Tuskegee University Parking Lot – BTW Oaks (Outside of the Gate)	Renaissance Montgomery Convention Center	6:30 AM
2	Renaissance Montgomery Convention Center	Tuskegee University Police Department – (Beside the Hello Park & Office of the Gate)	8:30 AM
3	Tuskegee University Parking Lot – BTW Oaks (Outside of the Gate)	Renaissance Montgomery Convention Center	5:00 PM
4	Renaissance Montgomery Convention Center	Tuskegee University	8:30 PM

Transportation provided by Neely Charter Services, LLC

**SATURDAY, NOVEMBER 16, 2024
AGENDA AT A GLANCE**

8:00 am – 5:00 pm	Cultivating the Future of Organic Agriculture in the Southeastern US Meeting	Alabama A
8:00 am – 9:00 pm	PAWC Technology Office	Riverview 8
8:00 am – 9:00 pm	PAWC Administration Office	Riverview 7
8:00 am – 12:00 pm	1890 Wildlife Consortium Meeting and Forestry Alumni Association Meeting Plenary Session	Montgomery 7
12:00 pm – 1:00 pm	1890 Wildlife Consortium Meeting and Forestry Alumni Association Meeting Luncheon	Montgomery 7
1:00 pm – 4:30 pm	1890 Wildlife Consortium Meeting & Forestry Alumni Meeting Breakout Session	Riverview 1 Riverview 2 Montgomery 7
1:00 pm – 8:00 pm	Tomorrow's Agricultural Professional Symposium (TAPS) High School	Montgomery 5
5:00 pm – 7:00 pm	Exhibit Set up	Exhibit Hall Foyer
6:00 pm – 9:00 pm	PAWC General Registration	CC Registration Booth
7:30 pm – 8:30 pm	GSD Student Competition Judges & Moderator Meeting	Zoom

SATURDAY, NOVEMBER 16, 2024

8:00 am – 5:00 pm	Cultivating the Future of Organic Agriculture in the Southern US Preconference – <i>Alabama A</i>
8:00 am – 9:00 pm	PAWC Technology Office- <i>Riverview 8</i>
8:00 am – 9:00 pm	PAWC Administration Office – <i>Riverview 7</i>
8:00 am – 12:00 pm	1890 Wildlife Consortium Meeting & Forestry Alumni Association Meeting – <i>Montgomery 7</i>
12:00 pm – 1:00 pm	1890 Wildlife Consortium Meeting & Forestry Alumni Association Meeting Luncheon – <i>Montgomery 7</i>
1:00 pm - 4:30 pm	1890 Wildlife Consortium Meeting & Forestry Alumni Breakout Sessions Breakout A – <i>Riverview 1</i> Breakout B – <i>Riverview 2</i> Breakout C – <i>Montgomery 7</i>
1:00 pm – 4:30 pm	Cultivating the Future of Organic Agriculture in the Southern US Preconference Breakout Sessions Breakout D – <i>Montgomery 2</i> Breakout E – <i>Montgomery 4</i> Breakout F – <i>Montgomery 8</i> Breakout G – <i>Montgomery 9</i>
1:00 pm – 8:00 pm	Tomorrow's Agricultural Professional Symposium High School & Junior MANRRS Alabama Leadership Institute
5:00 pm – 7:00 pm	Exhibit Set up – <i>Renaissance Exhibit Hall Foyer</i>
6:00 pm – 9:00 pm	PAWC Registration – <i>Renaissance Convention Center Registration Booth</i>
7:30 pm – 8:30 pm	GSD Student Competition Judges and Moderator Meeting - <i>Zoom</i>



Tomorrow's Agricultural Professionals Symposium (TAPS)

November 16-17, 2024

Ag is for EVERYBODY!!!

Time	Activity	Location	Presenter(s) / Point of Contact
Saturday, November 16, 2024			
1:00 - 3:00 PM	What's the Bee's Needs?	Tuskegee University Apiary Research and Education Unit	Mr. Bernard Pace, Tuskegee University
3:30 - 4:30 PM	Global Food Security: The Science of Feeding the Future	Henderson Hall Auditorium	Ms. Lakiah Clark, Tuskegee University
4:30 - 6:00 PM	DINNER - TOMPKINS HALL		
5:30 - 6:15 PM	Registration & Check-In	Henderson Hall Atrium	
6:15 PM	Welcome & Icebreaker	Henderson Hall Auditorium	
6:45 PM	Jr. MANRRS Impromptu Speaking Contest	Henderson Hall - Room 101 & 102	George Washington Carver MANRRS Chapter
6:45 PM	Inside Out: Digital Anatomy Exploration	Henderson Hall - Auditorium & Atrium	Dr. Christianne Magee & Andrea Linton Colorado State University
8:00 PM	Reflections	Henderson Hall Auditorium	
8:30 PM	Depart to Montgomery		
9:10 PM	Hotel Check-In**	Embassy Suites	Ms. Janet Sullen & Dr. Clarissa Harris
Sunday, November 17, 2024			
7:00 AM	Hotel Check Out**	Embassy Suites	
7:30 AM	Breakfast at Hotel	Embassy Suites	
8:15 AM	Depart to Tuskegee University	Embassy Suites	
9:00 AM	Opening Remarks	Henderson Hall	
9:15 AM	Youth Institute Pathways to Purpose	Henderson Hall Auditorium	Moderator: Angel Lindsey, Tuskegee University Panelist: Trevon Butler - Booker T. Washington Dela Armah & Ontanayia Hatter, Tuskegee Univ.
10:00 AM	MEAT Matters	Henderson Hall - Room 102	Dr. Clarissa Harris, Tuskegee University
	"Nourish to Flourish: Cooking for a Healthier You"	Campbell Hall Teaching Kitchen	Tuskegee University Department of Food and Nutritional Sciences
	"BioBreakthroughs: The Future of Plants and Technology"	Henderson Hall - Room 101	Dr. Daniel Sullen, Auburn University
11:00 AM	BRUNCH - TOMPKINS HALL		
12:15 PM	Transition to Henderson Hall		
12:30 PM	Ag-Robotics Demonstration	Henderson Hall Lawn	The Lab of Dr. Gregory Bernard, Tuskegee University
1:00 PM	MEAT Matters	Henderson Hall - Room 102	Dr. Clarissa Harris, Tuskegee University
	"Nourish to Flourish: Cooking for a Healthier You"	Campbell Hall Teaching Kitchen	Tuskegee University Department of Food and Nutritional Sciences
	"BioBreakthroughs: The Future of Plants and Technology"	Henderson Hall - Room 101	Dr. Daniel Sullen, Auburn University
2:05 PM	MEAT Matters	Henderson Hall - Room 102	Dr. Clarissa Harris, Tuskegee University
	"Nourish to Flourish: Cooking for a Healthier You"	Campbell Hall Teaching Kitchen	Tuskegee University Department of Food and Nutritional Sciences
	"BioBreakthroughs: The Future of Plants and Technology"	Henderson Hall - Room 101	Dr. Daniel Sullen, Auburn University
3:05 PM	NUTRITION BREAK		
3:15 PM	Funding your Future	Henderson Hall Auditorium	Mr. Rodney Stone, USDA 1890 Program Liason
4:15 PM	Collegiate Student Panel	Henderson Hall Auditorium	Reps from Admissions, Student Body, Financial Aid & Student Success
5:15 PM	Transition to Montgomery	Henderson Hall	
6:00 PM	MANRRS Student Recognition and Award Banquet (Business Attire)	Renaissance Montgomery Hotel and Spa at the Convention Center	Keynote Speaker: Cynthia Stokley, BAYER Crop Science

****Lodging scholarships are available for up to 75 participants who travel within a group of 10 or more students. Will include support for ONE hotel night (Saturday, November 16, 2024)**

TAPS Event Sites

Henderson Hall - Tuskegee University 1200 W. Montgomery Road, Tuskegee, AL 36088

Embassy Suites by Hilton Montgomery Hotel & Conference Center - 300 Tallapoosa Street, Montgomery, AL 36104

Renaissance Montgomery Hotel & Spa -201 Tallapoosa Street, Montgomery, AL 36104

SUNDAY, NOVEMBER 17, 2024

AGENDA A T A GLANCE

7:30 am – 11:00 am	PAWC Conference Registration	CC Registration Booth
7:30 am – 8:30 pm	PAWC Technology Office	Riverview 8
7:30 am – 8:30 pm	PAWC Administrative Office	Riverview 7
7:30 am – 7:00 pm	GSD Student Competition Office	Riverview 3
8:00 am – 9:30 am	Breakfast	Exhibit Hall A
8:00 am – 12:00 pm	Cultivating the Future of Organic Agriculture in the Southeastern US Meeting	Alabama A
8:00 am – 8:45 am	GSD Student Competition Judges & Moderator Check-in	Foyer Exhibit Hall A
9:00 am – 9:30 am	GSD Student Competition Check-in	Foyer Exhibit Hall A
9:00 am – 9:30 am	GSD Poster Setup	Alabama CDE
9:00 am – 6:00 pm	Tomorrow's Agricultural Professional Symposium (TAPS) High School	Montgomery 7
10:00 am – 11:30 am	PAWC Exhibit Set Up Cont.	Exhibit Hall Foyer
10:00 am – 5:00 pm	GSD Student Competition	See Below
	Graduate Oral Competitive I	Riverview 2
	Graduate Oral Competitive II	Riverview 4
	Graduate Poster Competitive	Alabama CDE
	Undergraduate Competitive Oral I	Riverview 6
	Undergraduate Competitive Oral II	Riverview 1
	Undergraduate Poster Competitive	Alabama CDE
	Non- Competitive Poster & Global Agriculture Presentations	Riverview 5
10:00 am – 4:00 pm	Legacy Museum & National Memorial for Peace and Justice Tour (on your own)	EJI - Montgomery
11:00 am – 4:30 pm	Tomorrow's Agricultural Professional Symposium Collegiate	Montgomery 5
12:00 pm -12:45 pm	GSD Student Competition Break	Exhibit Hall A
1:00 pm – 5:30 pm	PAWC Exhibit Hall Opens	Concourse All
2:00 pm – 5:30 pm	PAWC Conference Registration	CC Registration Booth
3:00 pm - 3:30 pm	BREAK	Exhibit Hall Foyer
5:00 pm – 5:30 pm	GSD Poster Removal	Alabama CDE
6:30 pm – 8:30 pm	MANRRS & GSD Student Awards Banquet	Exhibit Hall A
8:30 pm – 9:00 pm	PAWC Advisory Board Pre-Meeting	Hospitality Suite
9:00 pm – 11:00 pm	PAWC Professional Meet & Greet	Hospitality Suite

SUNDAY, NOVEMBER 17, 2024

7:30 am – 11:00 am	PAWC Conference Registration – <i>CC Registration Booth</i>
7:30 am – 8:30 pm	PAWC Tech Office – <i>Riverview 8</i>
7:30 am – 8:30 pm	PAWC Administrative Office - <i>Riverview 7</i>
7:30 am – 7:30 pm	GSD Student Competition Office – <i>Riverview 3</i>
8:00 am – 9:30 am	Breakfast – <i>Exhibit Hall A</i>
8:00 am – 12:00 pm	Cultivating the Future of Organic Agriculture in the Southeastern US Meeting – <i>Renaissance Hotel Alabama A</i>
8:00 am – 8:45 am	GSD Student Competition Judges & Moderator Check-In – <i>Exhibit Hall A Foyer</i>
9:00 am – 9:30 am	GSD Student Competition Check-in – <i>Exhibit Hall A Foyer</i>
9:00 am – 9:30 am	GSD Poster Setup – <i>Alabama CDE</i>
9:00 am – 6:00 pm	Tomorrow's Agricultural Professional Symposium (High School)/Junior MANRRS Alabama Leadership Institute – <i>Montgomery 5</i>
10:00 am – 5:00 pm	GSD Student Competition

ROOM	TITLE
Riverview 2	Graduate Oral Competitive I
Riverview 4	Graduate Oral Competitive II
Alabama CDE	Graduate Poster Competitive
Riverview 6	Undergraduate Competitive Oral I
Riverview 1	Undergraduate Competitive Oral II
Alabama CDE	Undergraduate Poster Competitive
Riverview 5	Non-Competitive Poster & Global Agricultural Presentations

10:00 am – 11:30 am	PAWC Exhibit Setup – <i>Exhibit Hall Foyer</i>
10:00 am – 4:00 pm	Legacy Museum & National Memorial for Peace and Justice Tour (On Your Own) * Tickets can be purchased at https://legacysites.eji.org *
11:00 am – 4:30 pm	Tomorrow's Agricultural Professional Symposium Collegiate – <i>Montgomery 7</i>
12:00 pm – 12:45 pm	GSD Student Competition Break- <i>Exhibit Hall A</i>
1:00 pm – 5:30 pm	PAWC Exhibit Hall Opens – <i>Exhibit Hall Foyer</i>
2:00 pm – 5:30 pm	PAWC Conference Registration – <i>CC Registration Booth</i>
3:00 pm - 3:30 pm	BREAK - Exhibit Hall Foyer
6:30 pm – 9:00 pm	MANRRS & GSD Student Awards Banquet – <i>Renaissance Hotel & Spa Exhibit Hall A</i>
8:30 pm – 9:00 pm	PAWC Advisory Board Pre-Meeting - <i>Hospitality Suite</i>
9:00 pm – 11:00 pm	PAWC Professional Meet & Greet – <i>Hospitality Suite</i>

MONDAY, NOVEMBER 18, 2024 AGENDA AT A GLANCE

7:00 am – 8:00 am	Breakfast	Exhibit Hall A
7:30 am – 4:30 pm	PAWC Registration	Convention Center Registration Booth
7:30 am – 6:00 pm	PAWC Technology Office	Riverview 8
7:30 am – 6:00 pm	PAWC Administration Office	Riverview 7
8:00 am – 9:45 am	82 nd PAWC Opening Plenary Session	Exhibit Hall A
9:45 am – 10:15 am	Motivational Monday Plenary Session: <i>Inspiring Change in Rural and Urban Communities</i>	Exhibit Hall A
9:30 am – 11:30 am	Tuskegee University Meat and Poultry Processing Technical Assistance Program Training	Riverview 1
10:15 am – 10:30 am	Break & Visit with Exhibitors	Exhibit Hall Foyer
10:30 am – 11:30 am	Concurrent Sessions I	See Below
Session #	Session Title	Room
1	Benefits of Plant-Based Eating: Cooking Demonstration & Discussion	Montgomery 5
2	From Proposal to Funding: A Comprehensive Guide to Effective Writing and Technical Assistance to Master Grant Writing Success	Montgomery 7
3	Tuskegee University Meat and Poultry Processing Technical Assistance Program Training Part II	Riverview 1
4	Opportunities for U.S. China Agricultural Engagement: Learning from the 2024 U.S. China Agriculture Roundtable	Riverview 2
5	Global Stewardship: Addressing Climate and Sustainability Challenges for Food Security	Riverview 3
6	Fostering Entrepreneurship in Rural & Urban Communities	Riverview 4
7	Crop Insurance and Risk Management for Small Farmers	Riverview 5
8	Understanding Heirs Property at the Community Level	Riverview 6
10:30 am – 1:30 pm	PAWC & Carter G. Woodson Center for Interracial Education Meeting (closed session)	Alabama C
11:30 am – 12:00 pm	Special Presentation by USDA AMS	Exhibit Hall A
12:00 pm – 1:30 pm	L. A. Potts Luncheon and Success Stories	Exhibit Hall A
1:30 pm – 3:00 pm	Concurrent Sessions II	See Below

MONDAY, NOVEMBER 18, 2024
AGENDA AT A GLANCE cont.

Session #	Session Title	Room
9	Boots on the Ground: The Heirs' Property Practitioner Network	Montgomery 5
10	Leveraging Training Opportunities to Amplify Technical Assistance for Conservation	Montgomery 7
11	Research in Plant and Soil Science	Riverview 1
12	Enhancing Nutrition & Health Equity: Innovations for Marginalized Communities	Riverview 2
13	Strategies Towards Climate-Smart Crop and Livestock Production Systems	Riverview 4
14	The Importance of Cooperative Farming in Action in Atlanta	Riverview 5
15	Could a Programmable Plant System Work for You as a Grower, a Farmer, an Urban Gardener, or a Researcher? Introducing Smart Plant Technology	Riverview 6
16	Mobile Harvest Unit Tour & Demonstration	Mobile Harvest Unit Tour & Demonstration
1:30 pm – 4:00 pm	Professional Poster Setup	Alabama CDE
3:00 pm – 3:30 pm	Break & Visit with the Exhibitors	Exhibit Hall Foyer
3:30 pm – 4:45 pm	Concurrent Sessions III	See Below
Session #	Session Title	Room
17	Heirs Property Research Ethics: Dialogue to Inform Problem Solving	Montgomery 5
18	Diversity: How It Affects the Workforce	Montgomery 7
19	Horticulture and Plant Science	Riverview 1
20	Making Midlife Your Best Life: Thriving During Menopause Transition and Beyond	Riverview 2
21	Global Stewardship: Addressing Climate and Sustainability Challenges for Food Security	Riverview 3
22	Strategies Towards Climate-Smart Crop and Livestock Production Systems Part II	Riverview 4
23	Tuskegee University Meat and Poultry Processing Technical Assistance Program Training	Tuskegee University Ag Innovation Center
5:00 pm – 6:00 pm	Professional Poster Reception & Visit with Exhibitors	Alabama CDE
6:00 pm – 8:00 pm	Dinner on your Own	
8:00 pm – 10:00 pm	Rep Your University or State With Sherika Nicole the Groovy Line Dance Queen	Alabama CDE
8:00 pm – 11:00 pm	PAWC Networking	Hospitality Suite

MONDAY, NOVEMBER 18, 2024

7:00 am – 8:00 am	Breakfast – Exhibit Hall A
7:30 am – 4:30 pm	PAWC Registration – CC Registration Booth
7:30 am – 6:00 pm	PAWC Technology Office – Riverview 8
7:30 am – 6:00 pm	PAWC Administration Office – Riverview 7
8:00 am – 9:45 am	Opening Plenary – Exhibit Hall A
	<p>Presiding Zelia Wiley, Kansas State University</p> <p>Greetings & Welcome from Tuskegee University Olga Bolden-Tiller, Tuskegee University</p> <p>Greetings and Welcome from the PAWC Advisory Board John Williams, PAWC Advisory Board Chair</p> <p>Special Presentation Emon Fowler, Tuskegee University</p> <p>Introduction of Keynote Speaker Tasha Hargrove, Tuskegee University</p> <p>Keynote Speaker Rev. Lennox Yearwood, Jr., Hip Hop Caucus</p> <p>Plenary Address: Community and Climate Change: The Role of 1890 Land Grant Universities</p> <p>Presenters: Gloria Tinubu, Monyai Chavers, Dalal Alkordi, Kourtney Sherrod, Baile Braxton, Jerry Pennick, and Raymon Shange, Tuskegee University</p>
9:45 am – 10:15 am	<p>Motivational Monday Plenary Session – Inspiring Change in Rural & Urban Communities with Philip Cooper, Change Agent– Exhibit Hall A</p> <p>Moderator: Tasha M. Hargrove, Tuskegee University</p>
9:30 am – 11:30 am	<p>Tuskegee University Meat and Poultry Processing Technical Assistance Program Training Part I – Riverview 1</p> <p>Moderator: Veronica Royal, Tuskegee University</p> <p>Presenters:</p> <ul style="list-style-type: none"> • Introduction to TU MPPTA & Meet the Team TU MPPTA Team, Tuskegee University

- Funding Fundamentals and Fellowship with MANRRS and TU MPPTA: Presenting Intentional Strategies, Tools and Resources to Diversify Funding Sources and Leverage Collaborations to Improve Competitive Grantsmanship
Derris Burnett, Tuskegee University, **Brennan Washington**, Southern SARE, and **Barrett Vaughan**, Tuskegee University
- Climate Smart Meat Production: Value-Added Marketing and Processing from the Farm Gate to the Consumer's Plate
Derris Burnett, Tuskegee University; Joseph Mangano, Hugh Trussel, and Benny Malone, USDA NRCS

10:15 am – 10:30 am Break & Visit with Exhibitors – *Exhibit Hall Foyer*

10:30 am – 11:30 am Concurrent Session I

CONCURRENT SESSIONS I

SESSION #	ROOM	TITLE
1	Montgomery 5	Benefits of Plant-Based Eating: Cooking Demonstration & Discussion
2	Montgomery 7	From Proposal to Funding: A Comprehensive Guide to Effective Writing and Technical Assistance to Master Grant Writing Success
3	Riverview 1	Tuskegee University Meat and Poultry Processing Technical Assistance Program Training Part II
4	Riverview 2	Opportunities for U.S. China Agricultural Engagement: Learning from the 2024 U.S. China Agriculture Roundtable
5	Riverview 3	Global Stewardship: Addressing Climate and Sustainability Challenges for Food Security
6	Riverview 4	Fostering Entrepreneurship in Rural & Urban Communities
7	Riverview 5	Crop Insurance and Risk Management for Small Farmers
8	Riverview 6	Understanding Heirs Property at the Community Level

MONTGOMERY 5

Session 1: Benefits of Plant-Based Eating: Cooking Demonstration & Discussion

Moderator: Rhonda Benton, Rhema Ranch

Presenter: Fiona Lewis, Black & Peri, LLC

Description: This plant-based cooking demonstration aims to inspire and educate participants on the benefits of incorporating more plant-based meals into their diets. The session will highlight the simplicity and versatility of plant-based cooking, focusing on two no-cook recipes that can be easily prepared without needing a fridge or stove.

MONTGOMERY 7

Session 2: From Proposal to Funding: A Comprehensive Guide to Effective Writing and Technical Assistance to Master Grant Writing Success

Moderator: Shannon Coleman, *Louisiana State University*

Presenters: *Angela Walla*, Texas Tech University; *Shannon Colman*, Louisiana State University AgCenter; *Christine Strohm*, Engineering and Science Editors; and *Amrita Jackson-Davis*, Alabama A & M University;

Description: For many years, USDA, NSF, and other agencies and organizations have offered workshops, seminars, and webinars to assist with writing grant applications. However, many young faculty and community organizations needed additional technical assistance to make their proposal led to funding. This workshop aims to share a comprehensive guide that contains lessons learned, and resources that can help with grant writing. Participants can also sign up for free one-on-one technical assistance for an experienced grant writer and team.

RIVERVIEW 1

Session 3: Tuskegee University Meat and Poultry Processing Technical Assistance Program Training Session Part II

Moderator: Derris Burnett, Tuskegee University

Presenter: Darrell Tennie, The Tennie Group

Description: The “The Agribusiness Way” workshop aims to equip participants with the knowledge and skills to navigate the complexities of agriculture taxation, financial management, and recordkeeping, ultimately empowering them to build financially resilient and successful agricultural enterprises.

RIVERVIEW 2

Session 4: Opportunities for U.S. China Agricultural Engagement: Learning from the 2024 U.S. China Agriculture Roundtable

Moderator: Min Fan, US Heartland China Association

Presenters: Kimberly Ratcliff, Ratcliff Premium Meats; Kayla Grant, Tuskegee University
Jonathan Franklin, University of Maryland Eastern Shore

Description: Agriculture stands at the forefront of U.S.-China engagement, offering mutual benefits that can foster economic growth, ensure food security, and mitigate climate change. The U.S. Heartland China Association (USHCA) is honored to present a session highlighting opportunities for U.S.-China agricultural collaboration, focusing on insights from the 2024 U.S.-China Agriculture Roundtable. This session will provide an in-depth overview of the Roundtable, which recently took place on Chinese soil and convened leading figures in agriculture from both nations. We will explore key discussions, outcomes, and future pathways for collaboration between U.S. and Chinese agricultural sectors. This presentation will be a valuable opportunity for agricultural professionals to gain a deeper understanding of the evolving U.S.-China agricultural relationship and its role in shaping global agriculture’s future.

RIVERVIEW 3

Session 5: Global Stewardship: Addressing Climate and Sustainability Challenges for Food Security

Moderator: Gamal El Afandi, Tuskegee University

Presenters:

- *An Inclusive Ecosystem to Advance Collaborative Knowledge Sharing for Climate Responsive Opportunities for Plant Science*
Gregory Goins, Biswanath Dari, Mark Blevins, and Charles Hopper
North Carolina A&T University
- *Measuring the Economic and Environmental Benefits of Composting; A Case of Urban Agriculture*
Sahil Ojha, Lila Karki, Dipendra Gurugn, and Prem Bhandari, University of Maryland Eastern Shore
- *Carbon Sequestration Dynamics in Aquaculture Ponds: Influences of Fish Species Selection, Pond Age, and Farming Practices*
Kamal Gosh, Malcolm McCallum, Tremar Ivey, and Ander Compere, Langston University

RIVERVIEW 4**Session 6: Fostering Entrepreneurship in Rural and Urban Communities****Moderator:** Youssouf Diabate, Tuskegee University**Presenters:**

- Promoting Technology Adoption and Awareness to Invigorate Rural Entrepreneurship
Yolanda Surrency, Terrence Woolfork, Fort Valley State University; Karen Craig, Tuskegee University; and Lalit Rainey, North Carolina A&T University
- Cultivating the Next Generation of Entrepreneurial Leaders
Ceandra James, The Blueprint University

RIVERVIEW 5**Session 7: USDA RMA Crop Insurance and Risk Management Pilot Program for Historically Disadvantaged Farmers and Ranchers****Moderator:** Gwen Harris, Tuskegee University**Presenters:** Serna Hill, David Stevens, Cherimere Hampton, Tiana Surry, and LaGrand Elliott, University of Arkansas Division of Agriculture**RIVERVIEW 6****Session 8: Understanding Heirs Property at the Community Level****Moderator:** *Folashade Adalumo-Ntam*, Tuskegee University**Presenters:**

- Heir's Property: Insights from Land Loss, Legal Complications and Community Empowerment Through Education
Raksha Khadka, Lila Karki, and Prem Bhandari, University of Maryland Eastern Shore
- Understanding Heirs Property at the Community Level in North Carolina
Biswanath Dri, North Carolina Agricultural and Technical State University; Kurt Smith, Noah Ranells, and Andrew Branan, North Carolina State University
- The Regional Impact of Heirs Property in Alabama
Obianuju Egiebor and Robert Zabawa, Tuskegee University

10:30 am – 1:30 pm

PAWC & G. Woodson Center for Interracial Education Meeting (closed session) –
Alabama C

11:30 am – 12:00 pm

Special Presentation by USDA Agricultural Marketing Service, ***Exhibit Hall A***Presiding: ***Olga Bolden-Tiller***, Tuskegee UniversityIntroduction of Speaker: ***Venus Welch-White***, Environmental Protection AgencySpeaker: ***Bruce Summers***, USDA Agricultural Marketing Service

12:00 pm – 1:30 pm

L. A. Potts Success Stories Luncheon –
Exhibit Hall A

Presiding: *Miles Robinson*, Tuskegee University

Invocation:
William Hodge, Tuskegee University

Welcome & Greetings
Raymon Shange, Tuskegee University

Lunch

Recognition of Success Stories

1:30 pm – 3:00 pm

Concurrent Session II

CONCURRENT SESSIONS II

SESSION #	ROOM	TITLE
9	Montgomery 5	Boots on the Ground: The Heirs' Property Practitioner Network
10	Montgomery 7	Leveraging Training Opportunities to Amplify Technical Assistance for Conservation: A Collaborative Workshop
11	Riverview 1	Research in Plant and Soil Science
12	Riverview 2	Enhancing Nutrition & Health Equity: Innovations for Marginalized Communities
13	Riverview 4	Strategies Towards Climate-Smart Crop and Livestock Production Systems
14	Riverview 5	The Importance of Cooperative Farming in Action in Atlanta
15	Riverview 6	Could a Programmable Plant System Work for You as a Grower, a Farmer, an Urban Gardener, or a Researcher? Introducing Smart Plant Technology
16	Mobile Harvest Unit Tour & Demonstration	Tuskegee University Meat and Poultry Processing Technical Assistance Program Training

MONTGOMERY 5

Session 9: Boots on the Ground: The Heir's Property Practitioner Network (HPPN)

Moderator: Ryan Thompson, Auburn University

Panelists: Francine Miller, Senior Staff Attorney, Vermont Law School, Jacy Fisher, Senior Associate Attorney, Varner and Associates and Brianna Jackson, Attorney and Director of Legal Services, Center for Heirs Property Preservation

Description: This panel brings together a combination of legal practitioners and experts from the Heirs' Property Practitioner Network (HPPN) organized around legal discrimination and involuntary land loss in rural areas across the country. This legal wing of the more significant scholarly movement has created an incredible impact in a relatively short time. Building on a survey that maps the growing legal network and geospatial distribution of legal service providers (and their allies), this panel explores the successes and ongoing barriers of the movement to protect heirs' property owners from involuntary land loss.

MONTGOMERY 7**Session 10: Leveraging Training Opportunities to Amplify Technical Assistance for Conservation: A Collaborative Workshop****Moderator:** Iris Cole-Crosby, University of Arkansas at Pine Bluff**Presenters:** Carrie Castille and Heather Lair, Meridian Institute

Description: Agricultural professionals need adequate training and experience to provide producers with accessible, high-quality technical assistance (TA) to adopt and expand conservation practices. Funded through a grant from the National Fish and Wildlife Foundation, this workshop is part of a nationwide effort to reimagine how the TA system can better meet producers' as well as the TA professionals that serve them. Meridian Institute will facilitate this interactive workshop, where participants will explore the training and educational pipeline and how it can be enhanced to improve the quality and reach of TA for conservation. Through collaborative discussions and small-group exercises, professionals will share experiences with training and skill development, identify best practices for TA delivery, and generate ideas for how the next generation can be best prepared to enter the workforce or further develop their skills as agricultural professionals. Participation in this workshop is encouraged for agricultural professionals at every stage of their career – from students to retirees – who want to network and engage with each other in envisioning how training can be improved to further conservation goals.

RIVERVIEW 1**Session 11: Research in Plant and Soil Science****Moderator:** *George Hunter*, Tuskegee University

- Industrial Applications of *Orychophragmus violaceus* Seed Oil
DeMichael Winfield, Roque Evangelista, Bryand Moser, Jill Moser, Grigor Bantchev, Steven Cermak, USDA – Agricultural Research Service (ARS)
- The Effect of Pruning at 28 Days After Transplanting on the Height and Yield of Okra (*Abelmoschus esculentus* (L.) Monench.) Grown in Containers
J. Tate, G. Hunter, E. Sparks, J. Moore, J. Currington, J. Currington III, R. Johnson, Sr., and V. Khan, Tuskegee University
- The Importance of the Germplasm Collections in CATIE and How They Support Food Security
Edgar Alvarado Madriz, CATIE

RIVERVIEW 2**Session 12: Enhancing Nutrition & Health Equity: Innovations for Marginalized Communities****Moderator:** Eunice Bonsi, Tuskegee University**Presenters:** *Kiyana Kelly*, *Brittany Howard*, *Cornelius Jackson*, Southern University Agriculture Center; *Norma Dawkins*, Tuskegee University; and *Shengmin Sang*, North Carolina Agricultural and Technical State University

Description: This workshop addresses the critical issue of nutrition and health disparities within marginalized African American communities, particularly those residing in food deserts. These regions, identified by the CDC, often lack access to affordable and nutritious foods such as fruits, vegetables, whole grains, and low-fat dairy products. Cultural factors, including preferences for larger body sizes within African American populations, also pose challenges to adopting healthier dietary habits.

RIVERVIEW 4**Session 13: Strategies Towards Climate-Smart Crop and Livestock Production Systems Part I****Moderator:** *Uma Karki*, Tuskegee University**Description:** This session has been designed to discuss relevant strategies and approaches to transform conventional agriculture into Climate - Smart agricultural practices with the following topics and speakers.

- Greenhouse Gas Emissions from Livestock Production Systems & Mitigation Strategies
Uma Karki, Tuskegee University
- Strategies for Producing Climate-Smart Horticultural Crops
Srinivasa R. Mentreddy, Alabama A & M University
- Community demonstration sites: An Extension model to educate people on Climate-Smart alley cropping systems
Lila Karki, Dipendra Gurung, and Prem Bhandari, University of Maryland Eastern Shore
- Ecological Grazing Management Approaches to Climate-Smart ruminant Livestock Production
Vitalis Temu, Virginia State University

RIVERVIEW 5**Session 14: The Importance of Labor Support Cooperative Farming in Action in Atlanta****Moderator:** Willie Torrey**Presenters:** Charles Greenlea, Eco-Paradigm and G4 Farms and Christopher Lemons, Gratitude Botanical Farm and Eco-Paradigm**Description:** The purpose of this panel discussion is to highlight the importance of labor support in farming, specifically urban agriculture. We want to present on how we are working together to build a collaborative food system in Atlanta. One of the important caveats is labor support. We also intend to present on how Eco-Paradigm supports farms throughout the south. The presentation will also cover how labor support has been used to educate and empower growers through workshops, classes, and recidivism**RIVERVIEW 6****Session 15: Could a Programmable Plant System Work for You As a Grower, a Farmer, an Urban Gardener, or a Researcher? Introducing Smart Plant Technology****Moderator:** Robert Gates, Tri-County Agricultural Cooperative**Presenters:** Abe Stroock, Cornell University; Marceline Egnin, Gregory Bernard, Tuskegee University; Brandon Williams, Cornell University; Matthew Runyon, Catherine Li Shorter, University of Illinois Urbana-Champaign; and Kennedy Shorter, North Carolina A & T University**Tuskegee University Ag Innovation Center****Session 16: Tuskegee University Meat and Poultry Processing Technical Assistance Program Training**

1:30 pm – 4:00 pm	Professional Poster Setup – <i>Alabama CDE</i>
3:00 pm – 3:30 pm	Break and Visit with the Exhibitors
3:30 pm – 5:00 pm	Concurrent Sessions III

CONCURRENT SESSION III 3:30 – 5:00 PM

SESSION #	ROOM	TITLE
17	Montgomery 5	Heirs Property Research Ethics: Dialogue to Inform Problem Solving
18	Montgomery 7	Diversity: How It Affects the Workforce
19	Riverview 1	Horticulture and Plant Science
20	Riverview 2	Making Midlife Your Best Life: Thriving During Menopause Transition and Beyond
21	Riverview 3	Global Stewardship: Addressing Climate and Sustainability Challenges for Food Security
22	Riverview 4	Strategies Towards Climate-Smart Crop and Livestock Production Systems Part II
23	Tuskegee University Ag Innovation Center	Tuskegee University Meat and Poultry Processing Technical Assistance Program Training

MONTGOMERY 5**Session 17: Heirs Property Research Ethics: Dialogue to Inform Problem Solving**

Moderator: *Kara Woods*, Socially Disadvantaged Farmers and Ranchers Policy Research Center at Alcorn State University

Panelists: *Ryan Thomson*, Auburn University; *Portia Johnson*, Auburn University
Rosanne Scammahorn, Southern Rural Development Center, Mississippi State University; *Susan Stein*, Federal Reserve Bank of Atlanta; *John Green*, Southern Rural Development Center, Mississippi State University

Description: There are numerous ethical concerns in need of attention when working with vulnerable families and communities navigating heirs' property issues. These concerns need to be at the forefront for practitioners. This session will begin with a presentation of findings from focus groups conducted with researchers, extension professionals, nonprofit leaders, attorneys, and landowners on these issues, all practitioners in the heir property arena. This will be followed with facilitated dialogue among attendees to inform problem-solving. Presented with practical ethical questions, participants will discuss issues from their personal and professional perspectives, coupled with consideration of insights from the presentation, to advance and inform ethical practice when working with families, communities, and their data.

MONTGOMERY 7**SESSION 18: DIVERSITY: HOW IT AFFECTS THE WORKFORCE**

Moderator: Treyvion Hall, USDA

Presenter: Karla M. Hollis, USDA Liaison

Description: This workshop will focus on generational differences and the federal Special Emphasis Programs and how the two come together to influence the workforce. This workshop will describe the categorical differences we have based on when we were born and the influences that have come along with the changes we have experienced. Also, we will discuss the federal special emphasis programs (SEP), why they were created, and how to remove the barriers to equal employment opportunity for all groups that were traditionally not represented or subjected to discrimination in the workforce. We will then tie these two subjects together as we provide equal opportunities in employment to all individuals regardless of race, color, religion, gender, national origin, disability, or age!

RIVERVIEW 1**Session 19: HORTICULTURE AND PLANT SCIENCE****Moderator:** Victor Khan, Tuskegee University

- Evaluating Root Barriers in Containers on Storage Root Development of Sweet potatoes (*Ipomoea batatas* (L.))
M. Carter, Greenville High School; J. Harris, Central High School in Mosses, AL; D. Carter, Greenville High School; G. Hunter, J. Tate, B. Grant, Tuskegee University; C. Moorer, S. Woodley, Camden, AL; E. Sparks, R. Johnson, and V. Khan, Tuskegee University
- The Effect of Pruning on Secondary Branching and Height of Containerized Grown Okra (*Abelmoschus esculentus* (L.) Moench)
K., J. Underwood, and D.J. Barnett, Northside High School in Selma, AL; G. Hunter, J. Tate, B. Grant, Tuskegee University; J. Goins, L. Cook, Saris Community Dallas County, AL; C. Moorer, S. Woodley, Mt. Willin, AL; R. Johnson, Sr., Camden, AL, and V. Khan, Tuskegee University
- Determining the Germination Rate, Shelling Percentage and Yield of “Top-Pick” Field Peas (*Vigna Unguiculata* (L)) Planted at Anne Maine, AL
I. Love, A. Lewis, and S. Maze, Wilcox Central High School; G. Hunter, J. Tate, B. Grant, R. Johnson, Sr., Tuskegee University; C. Moorer, S. Woodley, Mt. Willin, AL; E. Sparks, and V. Khan, Tuskegee University

RIVERVIEW 2**Session 20: Making Midlife Your Best Life: Thriving During Menopause Transition and Beyond****Moderator:** Doris Eaves, Tuskegee University**Presenter:** Fiona Lewis, Black & Peri, LLC

Description: This workshop aims to address the unique challenges and disparities Black women face during menopause and menopause transition. It will provide practical tips, interactive activities, and comprehensive resources to empower participants to manage their symptoms and improve their quality of life. Additionally, the workshop will emphasize the importance of holistic wellness in preparation for post-menopause due to the increased risks of metabolic syndrome, cardiovascular disease, high blood pressure, and other chronic illnesses prevalent in Black women.

RIVERVIEW 3**Session 21: Global Stewardship: Addressing Climate and Sustainability Challenges for Food Security****Moderator:** David Nii Tackie, Tuskegee University**Presenters:**

- Using Advance Tools for Pesticide Risk Assessment in Macon County, Alabama: Status and Future Perspectives
Muhammad Irfan, Gamal El Afandi, and Amira Moustafa, Tuskegee University
- Assessing the Economic and Environmental Benefits of Rainwater Harvesting in Urban Gardening
Dipendra Gurung, Lila Karki, Sahil Ojha, and Prem Bhandari, University of Maryland Eastern Shore
- Effect of Biochar Application on Physical Properties and Soil Moisture Retention in Silty Loam Soil
G. Paudel and M. Gebremedhin, Kentucky State University

RIVERVIEW 4**Session 22: Strategies Towards Climate-Smart Crop and Livestock Production Systems Part II****Moderator:** *Uma Karki*, Tuskegee University**Description:** This session has been designed to discuss relevant strategies and approaches to transform conventional agriculture into climate-smart agricultural practices with the following topics and speakers.**Tuskegee University Ag Innovation Center****Session 23: Tuskegee University Meat and Poultry Processing Technical Assistance Program Training**

5:00 pm – 6:00 pm	Professional Poster Reception - Alabama CDE
6:00 pm – 8:00 pm	Dinner on Your Own
8:00 pm – 10:00 pm	Rep Your University or State with Sherika Nicole, The Groovy Line Dance Queen - Alabama CDE
8:00 pm – 11:00 pm	PAWC Networking – Hospitality Suite

TUESDAY, NOVEMBER 19, 2024

AGENDA AT A GLANCE

6:30 am – 7:45 am	PAWC Advisory Board Meeting	Alabama CD
7:00 am – 8:15 am	Breakfast	Exhibit Hall A
7:30 am – 6:30 pm	PAWC Technology Room	Riverview 8
7:30 am – 6:30 pm	PAWC Administration Office	Riverview 7
8:00 am – 2:00 pm	Conference Registration	Convention Center Registration Booth
8:00 am – 9:30 am	Mrs. Gwen Johnson Plenary Session	Exhibit Hall A
8:00 am – 4:00 pm	Meat Fabrication Workshop and Demonstration Workshop	Tuskegee University
9:30 am – 10:15 am	Updates from the USDA NASS & ERS	Exhibit Hall A
10:15 am – 10:30 am	Break & Visit with Exhibitors	Exhibit Hall Foyer
10:30 am – 11:30 am	Concurrent Session IV	See Below
Session #	Session Title	Room
24	Emerging Technology & Precision Agriculture	Montgomery 5
25	Strategies to Support Mental Health on the Farm	Riverview 1
26	Investing in Our Future	Riverview 2
27	Understanding Tax Liability of the Discrimination Financial Assistance Program	Riverview 3
28	Forestry Dynamics, Ecology, and Biodiversity	Riverview 4
29	A Unique Land Transfer from the United States Department of Agriculture (USDA-ARS) to Florida Agricultural and Mechanical University	Riverview 5
30	Innovative Research in Goat & Broiler Production	Riverview 6
11:45 am – 12:30 pm	The Current State of Black Farmers	Exhibit Hall A
12:30 pm – 2:00 pm	Mr. Robert Aaron Fitz Memorial Luncheon University of Arkansas Pine Bluff	Exhibit Hall A
2:00 pm – 3:00 pm	Exhibit Hall Closes & Breakdown	Concourse
2:30 pm – 4:30 pm	Breakout Session V	See Below
Session #	Session Title	Room
31	Opportunities for Farmers	Montgomery 5
32	Research in Plant and Soil Science	Riverview 1
33	Empowering Agriculture with Artificial Intelligence: Data Collection, Ownership, and Profitability Through Innovation	Riverview 2
34	Opportunities and Challenges of Growing Hemp	Riverview 3
35	Climate Smart	Riverview 4
36	Land Access, Retention, and Transfer: An Overview of Best Practices and Available Resources	Riverview 5
6:00 pm – 8:00 pm	George Washington Carver Public Service Hall of Fame Awards Banquet	Exhibit Hall A
8:30 pm – 10:30 pm	82 nd PAWC Networking	Hospitality Suite

TUESDAY, NOVEMBER 19, 2024

6:30 am – 7:45 am	PAWC Advisory Board Meeting – Alabama CD
7:00 am – 8:15 am	Breakfast – Exhibit Hall A
7:30 am – 6:30 pm	PAWC Technology Room – Riverview 8
7:30 am – 6:30 pm	PAWC Administration Office – Riverview 7
8:00 am – 2:00 pm	Conference Registration – CC Registration Booth
8:00 am -9:30 am	Mrs. Gwen Johnson Plenary Session – Exhibit Hall A
8:00 am – 4:00 pm	Meat Fabrication Demonstration – Tuskegee University Moderator: Clarissa Harris, Tuskegee University *Limit to 20 people. Please meet in front of the PAWC Registration Desk at 8:15 am.
9:30 am – 10:15 am	Updates from the USDA- National Agricultural Statistics Services & Economic Research Services Presiding: <i>Melvin Carter</i> , USDA NIFA Updates from the USDA - NASS <i>Joe Parsons</i> , USDA NASS <i>Race & Ethnicity of U.S. Farmers: Insights from the Agricultural Resource Management Survey</i> <i>Katherine Lacy</i> , USDA Economic Research Service
10:15 am – 10:30 am	Break
10:30 am – 11:30 am	Concurrent Session – IV

CONCURRENT SESSION IV

SESSION #	ROOM	TITLE
24	Montgomery 5	Emerging Technology & Precision Agriculture
25	Riverview 1	Strategies to Support Mental & Physical Health on the Farm
26	Riverview 2	Investing in Our Future
27	Riverview 3	Understanding Tax Liability of the Discrimination Financial Assistance Program
28	Riverview 4	Forestry Dynamics, Ecology, and Biodiversity: Balancing Preservation and Management
29	Riverview 5	A Unique Land Transfer from the United States Department of Agriculture (USDA-ARS) to Florida Agricultural and Mechanical University (FAMU): The Brooksville Agricultural and Environmental Research Station (BAERS)
30	Riverview 6	Innovative Research in Goat & Broiler Production

MONTGOMERY 5**Session 24: EMERGING, TECHNOLOGY & PRECISION AGRICULTURE****Moderator:** Gregory Bernard, Tuskegee University

- Calibration of Home-Based Soil Test Kits for Use by Urban Farmers and Gardeners
Leonard Githinji, Virginia State University and Desmyn Owens, Norfolk State University
- Validation of MODIS Satellite GPP with Eddy Covariance over a Deciduous Forest in Kentucky
Ife Familusi, Maheteme Gebremedhin, and Buddhi Gyawali, Kentucky State University

RIVERVIEW 1**Session 25: Strategies to Support Mental and Physical Health on the Farm****Moderator:** Emon Fowler, Tuskegee University

- The Collaborative Role of Dietitians and Farmers in Preventing Chronic Health Conditions: Healthy Foods is the Precursor to Medicine
Chimene Castor, Howard University and Bonnetta Adeeb, Ujamaa Seed
- SMH: Stress Management Help (SMH) for Farmers
ChaNae Bradley, Fort Valley State University

RIVERVIEW 2**Session 26: Investing in our Future****Moderator:** Lucy Asare-Baah, Tuskegee University

- The Broadening Need for Agricultural Outreach by Colleges and Universities
Julian Nixon, Clemon University
- Enhancing HBCU Graduate Outcomes: The CISC-INFAS Fellowship Program's Role in Fostering Academic Excellence
Lindsey Lunsford, Raymon Shange, Tuskegee University; B. Phipps, University of California – Davis; Natalie McGruder, Growing Green, LLC; E. Thornton, North Carolina Agricultural and Technical State University

- Cultivating Leadership Stories in Rural Senegal, Winrock International's Farmer to Farmer (F2F) Volunteer Program
Atim George, Winrock International 's Farmer to Farmer Program

RIVERVIEW 3

Session 27: Understanding Tax Liability of the Discrimination Financial Assistance Program

Moderator: *Nadia Romero*, Farmers Outreach Solutions, Inc.

Presenter: *Darrell Tennie*, Farmers Outreach Solutions, Inc. and *Monica Rainge*, USDA

Description: The Discrimination Financial Assistance Program (DFAP) awarded payments to 43,000 farmers. These payments are considered to be taxable gross income. This workshop will provide information on the tax liability of these payments.

RIVERVIEW 4

Session 28: Forestry Dynamics, Ecology, and Biodiversity: Balancing Preservation and Management

Moderator: Anthony Kumi, Tuskegee University

Presenters:

- An International Collaborative Approach to Address Climate Challenges: A Pine Bark Beetle Forest Model
Marikis Alvarez, Delaware State University; *A. Starker*, West Virginia State University; and *I. Katampe*, Central State University
- Suitability Analysis For Soybean Production in Central Kentucky Using Geographic Information System
S. Oshikoya, *B. Gyawali*, *K. Paudel*, *A. Akinleye*, Kentucky State University
- Soil Carbon Cycle Proxies in a Climate-Smart Land Management System
Biswanath Dari, North Carolina Agricultural and Technical State University; *Murray Sternberg*, *Jack Kagan*, *Gwen Read*, North Carolina State University; *John Kimes*, *Randall Quillian*, *Alex Bowman*, North Carolina Agricultural and Technical State University; and *Debjani Sihi*, North Carolina State University

RIVERVIEW 5

Session 29: A Unique Land Transfer From the United States Department of Agriculture (USDA-ARS) to Florida Agricultural and Mechanical University (FAMU): The Brooksville Agricultural and Environmental Research Station (BAERS)

Moderator: *Nadine Jackson*, Virginia State University

Presenter:

Oghenekome Onokpise, *Fred Gainous*, and *Patricia Green-Powell*, Florida Agricultural & Mechanical University

RIVERVIEW 6

Session 30: Innovative Research in Goat & Broiler Production

Moderator: *Dr. Jannette Bartlett*, Tuskegee University

- Goat Research and Development Status in Nepal
Raju Kadel, Nepal Agricultural Research Council, Nepal; *Nar Gurung* and *Olga Bolden-Tiller*, Tuskegee University

- Studying the Effect of Diseases on Mortality Percentage, Values of TVM (ECP, and Total Production Costs (ECP) of broiler production in Egypt
Mostafa Mandour, Sanad Atallah, Adel Elnabtiti, and Manal Abd El-Aziz
Suez Canal University

11:45 am – 12:30 pm

The Current State of Black Farmers – **Exhibit Hall A**Presiding: *Rodney L. Brooks*, U.S. House Committee on AgricultureSpeaker: *Eloris Speight*, The Socially Disadvantaged Farmers and Ranchers Policy Research Center (The Policy Center)

12:30 pm – 2:00 pm

Mr. Robert Aaron Fitz Memorial Luncheon – **Exhibit Hall A**

Presiding:

Henry English, University, University of Arkansas at Pine Bluff

Invocation

Iris Cole Crosby, University of Arkansas at Pine Bluff

Lunch

Presentation

2:00 pm – 3:00 pm

Exhibit Hall Closes

2:30 pm – 4:30 pm

Concurrent Sessions V

CONCURRENT SESSION V

SESSION #	ROOM	TITLE
31	Montgomery 5	Opportunities for Farmers
32	Riverview 1	Research in Plant and Soil Science
33	Riverview 2	Empowering Agriculture with Artificial Intelligence: Data Collection, Ownership, and Profitability Through Innovation
34	Riverview 3	Opportunities and Challenges of Growing Hemp
35	Riverview 4	Climate Smart
36	Riverview 5	Land Access, Retention, and Transfer: An Overview of Best Practices and Available Resources

MONTGOMERY 5**Session 31: Opportunities for Farmers****Moderator:** Miles Robinson, Tuskegee University

- Pathways for Success for Beginning Farmers Enrolled in 1890 Land-Grant Programs
Siddhartha Dasgupta, Kentucky State University
- How Farmers Can Become Sam's Club Suppliers
Quintin Gray, 1890 University Foundation

- FarmersClick™ Network
Mel Dowdell and Willie Torrey, Farmers Click International, LLC
- Helping Growers through Climate SMART Agriculture
Christopher Lemons and Charles Greenlea, Eco-Paradigm

RIVERVIEW 1

Session 32: Research in Plant and Soil Science

Moderator: Victor Khan, Tuskegee University

Presenters:

- Sensory Evaluation of Three Recipes of Collard Greens (*Brassica oleracea* (L.)) Raised by Members of the Boys and Girls Clubs of Hale County, AL in Containers
T. King, J. Lewis, J. Tate, G. Hunter, C. Hoffman, J. Moore, P. Moore, B. Grant, R. Johnson, Sr., E. Sparks, and V. Khan, Tuskegee University
- Yield of Two Varieties of Bell Peppers (*Capsicum annuum* (L). Grossum group Grown Under White and Gray Overhead Shade in a Wiregrass Tunnel House
G. Hunter, E. Sparks, J. Moore, J. Currington III, R. Johnson, Sr. and V. Khan, Tuskegee University
- Effects of Oak Leaf Supplementation on Fruit Body Yield in *Ganoderma mbrekobenum*.
Judith Enemudo, N. Holt, N. Udombang, M. Mensah-Bonsu, F. Anike, O. Isikhuemhen, North Carolina A & T University

RIVERVIEW 2

Session 33: Empowering Agriculture with Artificial Intelligence: Data Collection, Ownership, and Profitability Through Innovation

Moderator: *Rui Chen*, Tuskegee University

Description: This workshop will feature three talks on data collection, data ownership, and the benefits to farmers, focusing on data publication and ownership models. It will also highlight how farmers can gain financial incentives and insights by sharing their data. The session will showcase AI-powered weeding robots, demonstrating how automation enhances efficiency and profitability in farming operations.

RIVERVIEW 3

Session 34: Opportunities and Challenges of Growing Hemp

Moderator: Candace Clark, Tuskegee University

Presenters:

- Is Hemp Grown for Fiber Profitable/Sustainable for Me?
Lakiah Clark, Tuskegee University
- Hemp for Hope: Community Engagement of Alabama Hemp Farming
Lisa Brazelton, The University of Alabama

RIVERVIEW 4**Session 35: Climate Smart****Moderator:** Anthony Hudson, USDA

- Evaluating the Producer Welfare Implications of Carbon Farming Practices
Raymond Thomas, Timothy Dalton; North Carolina A & T State University; and Zelia Wiley, Kansas State University
- Daytime Greenhouse Gas Soil Fluxes Evolution and Its Impact on Goat Farming Associated with Climate-Smart Management
Hossam Ismael, Byeng Ryel Min, Mariline Hilaire, Santoch Chaudhary, Vivian Kanyi, and Heba Abdo, Tuskegee University
- An Inclusive Ecosystem to Advance Collaborative Knowledge Sharing for a Climate Responsive Opportunities for Plant Science
Gregory Goins, Biswanth Dari, Mark Blevins, and Charlies Hopper, North Carolina A & T University
- Quantifying the Impact of Utilizing Biochar For Mitigating Greenhouse Gas Emissions: As part of the Transition to Climate-Smart Agricultural Practices
Hossam Ismael, Byeng Ryel Min, Mariline Hilaire, Santoch Chaudhary, Vivian Kanyi, and Heba Abdo, Tuskegee University

RIVERVIEW 5**Session 36: Land Access, Retention, and Transfer: An Overview of Best Practices and Available Resources****Moderator:** Robert Zabawa, Tuskegee University**Presenters:** Courtney Owens and Mallory O'Steen, American Farmland Trust

Description: American Farmland Trust works to support and protect working lands from access, retaining, transferring, and conserving. During this workshop, AFT will provide a brief overview of Farms Under Threat data and provide an overview of our land access, land transfer, Heirs' Property, and conservation curriculums and resources. AFT will also review some of the latest programs and opportunities for farmers and practitioners to access direct technical assistance and resources.

4:30 pm – 5:00 pm Refreshment Break

6:30 pm – 8:30 pm G.W.C. Public Service Hall of Fame Awards Dinner–
Exhibit Hall A

Presiding
Ray McKinnie, North Carolina A & T University

Invocation
Ron Smith, Tuskegee University

Dinner
Introduction of Speaker:
Robert Zabawa, Tuskegee University

Speaker:
Jessica Klanderud, Berea College

Presentation of GWC Carver Award I and II
Robert Zabawa, Tuskegee University

Closing Comments
Olga Bolden-Tiller, Tuskegee University

PAWC PROFESSIONAL POSTERS

- **The Biological Control of Root Rot Diseases in Spinach NFT Hydroponics System Using *Bacillus subtilis* var natto.**
Madhu Sudan Acharya, Kentucky State University
- **The Effects of Glucosinolates on Healthy Honeybees and Nosema Disease**
Oluwatosin Adeyeye, Kentucky State University
- **The Role of the Peritrophic Matrix as a Barrier in Nosema Prevention: Impact of Calcofluor White-Induced Damage**
Joshi Yagya Raj, Kentucky State University
- **Richness of the Pollinators on Oilseed Sunflower, *Helianthus Annuus* 1., In Jefferson County (Southeastern), Arkansas**
Young Park, Bernard Igwebu, University of Arkansas at Pine Bluff
- **The Mental Health & Resilience of the Minority Farmer: A Casualty of Sustained Racism & Ignorance**
Hajjah Lenora-Mutiah Pierrot, Tuskegee University; and Atisha Nouria Williams, Tennessee State University
- **Uplifting Voices and Improving Communication and Digital Skill Sets Through Writer's Playground**
L.N. Ford and Yolanda Surrency, Fort Valley State University
- **Using a Classroom Aquaponics Project to Improve Urban (City) Students' Perceptions of STEM Disciplines and Career Pathways**
Kenneth R. Thompson and Carl D. Webster, Kentucky State University
- **Evaluating Organic Acids as Alternatives to Fumagillin for Treating *Nosema ceranae* in Honeybees**
Sapana Tiwari, Yagya Raj Joshi, Oluwatosin Adeyeye, and Thomas C. Webster Kentucky State University
- **Potential to Grow Lotus as an Agricultural Crop in Kentucky**
Changzheng Wang, Kentucky State University
- **The Biological Control of Root Rot Diseases in Spinach NFT Hydroponics System Using *Bacillus subtilis* var natto.**
Madhu Sudan Acharya, Kentucky State University
- **The Effects of Glucosinolates on Healthy Honeybees and Nosema Disease**
Oluwatosin Adeyeye, Kentucky State University
- **The Role of the Peritrophic Matrix as a Barrier in Nosema Prevention: Impact of Calcofluor White-Induced Damage**
Joshi Yagya Raj, Kentucky State University
- **Richness of the Pollinators on Oilseed Sunflower, *Helianthus Annuus* 1., In Jefferson County (Southeastern), Arkansas**
Young Park, Bernard Igwebu, University of Arkansas at Pine Bluff
- **The Mental Health & Resilience of the Minority Farmer: A Casualty of Sustained Racism & Ignorance**
Hajjah Lenora-Mutiah Pierrot, Tuskegee University; and Atisha Nouria Williams, Tennessee State University
- **Uplifting Voices and Improving Communication and Digital Skill Sets Through Writer's Playground**
L.N. Ford and Yolanda Surrency, Fort Valley State University
- **Using a Classroom Aquaponics Project to Improve Urban (City) Students' Perceptions of STEM Disciplines and Career Pathways**
Kenneth R. Thompson and Carl D. Webster, Kentucky State University
- **Evaluating Organic Acids as Alternatives to Fumagillin for Treating *Nosema ceranae* in Honeybees**
Sapana Tiwari, Yagya Raj Joshi, Oluwatosin Adeyeye, and Thomas C. Webster
Kentucky State University
- **Potential to Grow Lotus as an Agricultural Crop in Kentucky**
Changzheng Wang, Kentucky State University

GAMMA SIGMA DELTA STUDENT COMPETITION

1. ALLELE TYPING OF THE MAJOR BIOTIC STRESS RESISTANCE GENES (BPH, BLAST, BLB, and RTSV) FROM THE RELEASED 105 RICE VARIETIES. **SMITH, SIA**¹, M. Egnin¹, S. Kim², and S. Lou Hechanova³. ¹Dept. of Ag. and Envi. Sciences-Plant Biotech & Genomics Research Lab, Tuskegee University, Tuskegee, AL 36088; ²International Rice Research Institute (IRRI), Los Baños, Philippines; ³Dept. of Global Agriculture, Purdue University West Lafayette, IN 47907.

Presenter: **SMITH, SIA**

2. ASSESSING TRENDS IN SELECTED AGRICULTURAL COMMODITY PRICES: CORN AND SOYBEANS. **HANKINS, MICHEAL T.**¹, N. De Silva¹, C. Billings¹, G. Stevenson¹, W. Whittaker¹. ¹Department of Agriculture and Natural Resources, Sherman Lewis of School of Agriculture and Applied Sciences, Langston University, Langston OK 73050.

Presenter: **HANKINS, MICHEAL T.**

3. EVALUATION OF SIX TABLETOP HYDROPONIC SYSTEMS AND THEIR PERFORMANCE ON LETTUCE GROWTH CHARACTERISTICS AND YIELD. **ROBINSON, DESTINY N.**¹, J.¹ Kabbani², and L. Githinji³. ¹Dep. of Biology, ²Dep. of Agriculture, ³Dep. of Coop. Extension, Virginia State University, VA 23806.

Presenter: **ROBINSON, DESTINY N.**

4. EFFECT OF MICROBIOTA ACCESSIBLE CARBOHYDRATES CONCENTRATION ON METABOLISM OF THE GUT MICROBIOTA FROM DIFFERENT FECAL DONORS. **DAVIS, DESTINAE**¹. Carmen Perez-Donado⁺, Devin Rose, Jennifer Auchtung Southern University A&M College, Nebraska Food for Health Center, University of Nebraska Lincoln, NE 68588.

Presenter: **DAVIS, DESTINAE**

5. EVALUATING THE PRODUCTION PERFORMANCE BETWEEN AQUAPONICS AND TRADITIONAL SOIL CULTIVATION SYSTEM: A COMPARATIVE ANALYSIS. **TREMAR IVEY**¹, Kamal Gosh¹, Leonard Kibet¹ and Ander Compere². ¹Department of Agriculture and Natural Resources, Langston University, Langston, OK 73050; ² School of Business, Langston University, Langston, OK 73050.

Presenter: **IVEY, TREMAR**

6. GROWING OUR MINDEST: THE SUCCESS AND TRENDS OF A DIVERSITY FORUM IMPLEMENTED AT A PREDOMINATELY WHITE INSTITUTION. **SMITH, KAYLI**¹ and Wiley, Zeila², and Santillana, Summer². ¹College of Agriculture, Food, and Natural Resources, Prairie View A&M University, Prairie View, TX 77446, and ²College of Agriculture, Diversity Programs Office, Kansas State University, Manhattan, KS 66506.

Presenter: **SMITH, KAYLI**

7. HOW TO BECOME SELF-SUSTAINABLE FOR FOOD PRODUCTION USING HYDROPONICS TO FIGHT FUTURE POPULATION GROWTH. **HARRIS, CEANNA L**¹ and Bipul K Biswas, Specialty Crop Research, College of Agriculture, Family Sciences and Technology, Fort Valley State University, Fort Valley, GA 31030.

Presenter: **HARRIS, CEANNA L**

8. MOLECULAR SIGNALS AND AUXIN DISTRIBUTION IN DEVELOPING ARABIDOPSIS CALLUS TISSUE. **THOMPSON, CARRINGTON**¹, B. Rusnak², M. Okoma¹, M. Egnin¹, I. Ritte¹, G. C. Bernard¹, and A. Roeder². ¹Dept. of Ag. and Envi. Sciences-Plant Biotech & Genomics Research Lab, Tuskegee University, Tuskegee, AL 36088; School of Integrative Plant Science, Cornell University, Ithaca NY.

Presenter: **THOMPSON, CARRINGTON**

9. *PARASITES ACROSS TIME: THE IMPACT OF ENVIRONMENTAL CHANGE ON MONOGENEAN ABUNDANCE.* **JONES, J. IMANI**¹, D. Boyd², G. Commisso³, S. Christner⁴, L. K. Leslie³, J. Thirtyacre³, C. Whalen³, M. A. Kuris⁵, J. Mann⁶, L. H. Bart⁶, D. Diaz-Morales³, L. C. Wood³, M. Egnin¹, and O. Idehen¹. ¹ Dep. of Agricultural Sciences and the Plant Biotech & Genomics Research Lab, Tuskegee University, Tuskegee, AL, 36088, ²University of South Carolina, ³School of Aquatic and Fishery Sciences, University of Washington, Seattle, WA, 98195, ⁴ Valdosta State University, ⁵UC Santa Barbara, ⁶Department of Ecology and Evolutionary Biology, Tulane University, New Orleans, LA, 70118.

Presenter: **JONES, J. IMANI**

10. *REGIONAL FOOD SECURITY IN THE U.S.: A COMPARATIVE LOOK AT OKLAHOMA AND ITS NEIGHBORING STATES.* **ARIANNA, GRIFFIN M.**¹, N. De Silva². Dept. of Ag. and Nat. Resources, School of Agriculture and Applied Sciences, Langston University, Langston, OK 73050.

Presenter: **GRIFFIN, ARIANNA M.**

11. *STUDENTS GLOBAL EXPERIENTIAL LEARNING (GEL): GHANA CULTURAL EXPOSE.*

HATTER, ONTANAYIA¹, K. Boaten², A. Ince¹, A. Paul¹, L. Asare-Baah¹, R. Zabawa¹, E. Bonsi¹ and A. Aryee^{2*}. ¹College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088, ²College of Agriculture, Science and Technology, Delaware State University, Dover, DE 19901

Presenter: **HATTER, ONTANAYIA**

12. *STUDENTS RESEARCH AND EXTENSION EXPERIENTIAL LEARNING IN CLIMATE SMART INTERGRATED PEST MANAGEMENT TARGETING UNDERSERVED SMALL FARMERS.*

BUTLER, RAVEN¹ T. Clifton, J. Goins, A. Cruel, C. Richardson, M. Gaspard, M. Andrews, R. Hooper, D. Collins, and T. Rashid. Department of Agriculture, Alcorn State University, Lorman MS 39096.

Presenter: **BUTLER, RAVEN**

13. *TESTING THE THEORY OF ACTIVE GROWTH IN PROBIOTICS.* **JONES, KATELYN**¹ Mack, Velis²; Deloris Alexander³; Grand Island Senior High, NE 68801; AgDiscovery Program Tuskegee University, CAENS/CVM Tuskegee University, Tuskegee.

Presenter: **JONES, KATELYN**

14. *THE FOOD SECURITY GAP: UNDERSTANDING MOTIVATIONS AND BARRIERS*

TO COLLEGE STUDENTS' INVOLVEMENT IN CAMPUS INITIATIVES. **OPIRI DAVID**¹. Opiri, J. & Goldmon, S. Department of Human Sciences, University of Arkansas at Pine Bluff, 71601, AR

Presenter: **OPIRI, DAVID**

COMPETITIVE: UNDERGRADUATE ORAL PRESENTATIONS

15. AGE AND GROWTH DYNAMICS OF SPOTTED SEATROUT (*Cynoscion nebulosus*) IN MISSISSIPPI WATERS. **EAVES, JAMIA D.**¹, Gary J. Gray², Jeremy M. Higgs², Jill M. Hendon². ¹College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088, ²Center for Fisheries Research and Development, The University of Southern Mississippi, Ocean Springs, MS 39564.

Presenter: **EAVES, JAMIA D.**

16. ANTHOCYANINS & ANTIOXIDANTS IN VARIOUS TYPES OF CORN. **BOWE, CAYDEN D.**¹, and J. Moser². ¹United States Dept. of Ag. National Center for Agriculture Utilization Research, Peoria, IL 61604. Faculty Advisor: Norma L. Dawkins, ¹College of Agriculture, Environment, Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088.

Presenter: **BOWE, CAYDEN D.**

17. ASSESSING THE EFFICACY OF SPECTRAL SHADING TREATMENTS IN MITIGATING THERMAL AND RADIATIVE STRESS-INDUCED 2024 SUMMER BLEACHING EVENT IN ACROPORA CERVICORNIS. **MULONDA, DJEMIMA**¹, M. Torres-Díaz², C. P. Ruiz-Díaz³, S. Suleiman-Ramos³, A. Cruz-Rivas², A. S. Cabrera-Minier², D. Berio-Hernández², C. Toledo-Hernández², and L. M. Diaz-Vázquez²

Presenter: **MULONDA, DJEMIMA**

18. AUTOMATED ENGRAVING OF TOMATO COTYLEDONARY LEAVES USING CO₂ LASER TO ENHANCE PLANT REGENERATION. **LEGGETTE, SYLVIA**¹, K. Ly², R. Kumar³, J. Van Eck³, M. Egnin¹, G. C. Bernard¹, and R. Shepard². DAES-Plant Biotech and Genomics Research Lab, Tuskegee; ²Dept of Mechanical and Aerospace Engineering, Cornell University; ³Boyce Thompson Institute, Ithaca.

Presenter: **LEGGETTE, SYLVIA**

19. BUILT CAPITAL: HARNESSING INDUSTRY TO RECONCILE THE RELATIONSHIP BETWEEN THE HIGHER LEARNING INSTITUTION AND THE BROADER COMMUNITY OF TUSKEGEE, ALABAMA. **FOWLER, EMON J.**¹ ¹College of Engineering and Applied Sciences, University of Colorado Boulder, Boulder, CO 80303, ²Dept. of Ag and Envi. Sciences, Tuskegee University, Tuskegee, AL 36088

Presenter: **FOWLER, EMON J.**

20. CONTRIBUTION OF CARDIAC FIBROSIS IN HYPERTENSION-INDUCED HEART FAILURE. **PURIFOY MADISON**¹, Mu S², Devarajan S¹, Mora C¹, Liu Y¹, Deck K¹, Rogers P¹, Rafferty T¹, Deng S¹, Gonzalez L¹. ¹Nutrition and Food Science Program, Department of Human Sciences, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601, ²Department of Pharmacology and Toxicology, College of Medicine, University of Arkansas for Medical Sciences, Little Rock, AR 72205.

Presenter: **PURIFOY MADISON**

21. DILUTION OPTIMIZATION STRATEGIES FOR SEMI-CONTINUOUS PRODUCTION OF *CHAETOCEROS MUELLERI* IN 25 L PHOTOBIOREACTORS. **STOKES ALANNA**¹, W. Weidemann², J. Boyette², E. Rowe². ¹Dept. of Ag. and Envi. Sciences, Tuskegee University, Tuskegee, AL 36088, ²Thad Cochran Marine Aquaculture Center, The University of Southern Mississippi, Ocean Springs, MS 39564.

Presenter: **STOKES, ALANNA**

22. DYNAMIC ESTUARINE HABITAT USE BY GULF STURGEON IN THE PASCAGOULA RIVER SYSTEM. **BROWN, ZOE S.**¹, J. Perry², M. Segrest², S. Stovall², M.J. Andres². ¹Dept. of Ag. and Envi. Sciences, Tuskegee University, Tuskegee, AL 36088, ²Division of Coastal Sciences, The University of Southern Mississippi, Ocean Springs, MS 39564.

Presenter: **BROWN, ZOE S.**

23. *FARM BILL PITCH: INCREASING OUTREACH FOR ENVIRONMENTAL QUALITY INCENTIVE PROGRAM IN JEFFERSON COUNTY.* **WHITE, MORGAN, D.**¹, A. Noffsinger², and A. Lock³. ¹UAPB Small Farms Program, University of Arkansas at Pine Bluff, 1200 N. University Drive, Mail Slot 4912, Pine Bluff, Arkansas 71601. ²United State Senate Agriculture, Nutrition & Forestry Committee, 328A Russell Senate Office Building Washington, DC, 20510.

Presenter: **WHITE, MORGAN, D.**

24. *HEALTH OF COASTAL WETLANDS: EVALUATING THE EFFECTS OF SEA LEVEL RISE ON VEGETATION PRODUCTIVITY IN THE GULF COAST.* **SAUNDERS, LEAH D.**¹, Jennifer Holifield², Wei Wu². ¹Dept. of Ag. and Envi. Sciences, Tuskegee University, Tuskegee, AL 36088, ²University of Southern Mississippi, Gulf Coast Research Laboratory, Ocean Springs MS 39564.

Presenter: **SAUNDERS, LEAH D.**

25. *PLASTIC POLLUTION IN BIVALVES: CHARTING THE MICROPLASTIC PATHWAY THROUGH EASTERN OYSTERS IN THE MISSISSIPPI SOUND.* **HARPER, OLIVIA M.**¹, Rachel Lancaster², Kristina Mojica². ¹Dept. of Ag. and Envi. Sciences, Tuskegee University, Tuskegee, AL 36088, ²Department of Marine Research, John C. Stennis Space Center, University of Southern Mississippi.

Presenter: **HARPER, OLIVIA M.**

26. *PHYSICAL AND MICROBIOLOGICAL CHARACTERISTICS COMPARISON OF PORK JERKY VS BEEF JERKY.* **JACKSON, ELISE**¹, Fuller, Imani, and C. Harris Department of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088.

Presenter: **JACKSON, ELISE**

27. *INNOVATIVE APPROACHES TO OYSTER AQUACULTURE: UTILIZING ARTIFICIAL SALTWATER FOR RECIRCULATING AQUACULTURE SYSTEMS AND SELECTIVE BREEDING.*

ARMSTEAD, ALICIA¹, Megan Gima², Ben Doshier². ¹Dept. of Ag. and Envi. Sciences, Tuskegee University, Tuskegee, AL 36088, ²Thad Cochran Marine Aquaculture Center, The University of Southern Mississippi, Ocean Springs, MS 39564. University of Southern Mississippi, Ocean Springs, MS 39564.

Presenter: **ARMSTEAD, ALICIA**

28. *THE EFFECT OF MEDIA TREATMENTS ON TERPENE EXPRESSION IN GREENHOUSE GROWN ANNUALS IN OKLAHOMA.* **JACKSON, DAVIONA M.**¹, C. R. Hishaw¹, and T.L. Payton¹. ¹Department of Agriculture and Natural Resources, Sherman Lewis School of Agriculture and Applied Sciences, Langston University, Langston, Oklahoma 73050.

Presenter: **JACKSON, DAVIONA M.**

29. *THE STUDY OF ALLELOPATHY FROM COVER CROPS ON WEED GERMINATION.*

HENDERSON, CORTEZ¹, Hewitt, A². and Dille, A³. ¹Department of Agronomy, Kansas State University, Manhattan, KS 66506, ²Department of Regulatory Science, University of Arkansas at Pine Bluff, Pine Bluff, Arkansas 71601.

Presenter: **HENDERSON, CORTEZ**

COMPETITIVE: GRADUATE POSTER PRESENTATION

30. *APPLYING 'STRESS MEMORY' IN FISH FARMING: A NEW APPROACH TO GROWING CATFISH THAT CAN RESIST HARMFUL AMMONIA.* **ADHIKARI, KASHYAP**¹, T. Bhattacharjee¹, F.I. Fahim¹, and A. Sinha¹. ¹Dept. of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, AR.

Presenter: **ADHIKARI, KASHYAP**

31. *BOLSTERING RESILIENCE AND ADAPTATION TO CLIMATE CHANGE AMONG CROP FARMERS IN HURRICANE-PRONE AREAS IN SOUTHEAST UNITED STATES.* **OMOWUNMI A. ODEYOMI** and Godfrey C. Ejimakor. Dept of Agribusiness, Applied Economics & Agriscience Education, North Carolina A&T State University.

Presenter: **ODEYOMI, OMOWUNMI A.**

32. *COMPARISON OF GREENHOUSE GAS EMISSION FROM SILVOPASTURE AND OPEN PASTURE DURING SUMMER: PRELIMINARY RESEARCH.* **ARJUN ACHARYA**, Uma Karki, Eryn White. College of Agriculture, Environment and Nutrition Sciences, Tuskegee University.

Presenter: **ACHARYA, ARJUN**

33. *CRISPR/CPF1 BASED TARGET GENE EDITING OF *ahFAD2* GENE OF PEANUT (*Arachis hypogaea* L.)* **SUMAN VEERAMASU**¹, J Jackson¹, J Jaynes², B Karanam², D Wright³, D Mortley¹, P. Channapatna³ College of Agricultural Environmental Nutritional Sciences, ²College of Arts and Sciences Tuskegee University, Tuskegee AL 36088 ³Iowa State University Ames Iowa 50011.

Presenter: **VEERAMASU, SUMAN**

34. *COMPARISON OF GROWTH AND YIELD OF MUSTARD GREEN AMONG VARIOUS ENVIRONMENTAL CONDITIONS.* **TAMANG, PALSANG**¹, J. Mimbs¹, A. Roberson¹, and B.K. Biswas¹. ¹Specialty Crop Research Lab, College of Agriculture, Family Sciences and Technology, Fort Valley State University, Fort Valley, GA 31030.

Presenter: **TAMANG, PALSANG**

35. *DISSECTING THE IMPACT OF SOCIO-DEMOGRAPHIC DISPARITIES ON FOOD INSECURITY AND HEALTH OUTCOMES ACROSS ZIP CODES.* **MARIAM S. MARAFA**¹, Kristen L. Rhinehardt³, and Yvonne R. Ford², Dept. of ¹Food and Nutri. Science, North Carolina Ag. and Tech. State University, ²School of Nursing, North Carolina Ag. and Tech. State University, ³Computational Data Science and Eng.

Presenter: **MARAFA, MARIAM S.**

36. *DROUGHT-BASED ENVIRONMENTAL JUSTICE INDEX TOOL TO ENHANCE AGRICULTURE FOR UNDERSERVED FARMERS IN ALABAMA.* **SARA GUTIERREZ DIAZ**¹, J. Quansah¹, and S. Fall¹ Dept. of Ag. and Envi. Sciences, Tuskegee University, Tuskegee, AL 36088.

Presenter: **GUTIERREZ DIAZ, SARA**

37. *EFFECT OF DIFFERENT IRRIGATION LEVELS ON THE GROWTH AND YIELD OF TOMATOES.*

OLABISI TOLULOPE SOMEFUN¹ and B. Masasi Department of Natural Resources and Environmental Design, North Carolina A&T State University, Greensboro, NC 27411, USA

Presenter: **SOMEFUN, OLABISI TOLULOPE**

38. *EFFICACY OF DUDDINGTONIA FLAGRANS ON REDUCING GASTROINTESTINAL NEMATODE DEVELOPMENT IN MEAT GOAT KIDS.* **OTCHERE, EMMANUEL**, T. Wright, S. N. Harmer and K. Matthews. Department of Agriculture and Natural Resources, College of Agriculture, Science, and Technology, Delaware State University, Dover, DE 19901.

Presenter: **OTCHERE, EMMANUEL**

39. *EFFICACY OF DUDDINGTONIA FLAGRANS FED AT DIFFERENT INTERVALS ON REDUCING PARASITE LOAD ON PASTURE.* **WRIGHT, TERRENCE G.**¹, E. Otchere¹, S. Harmer¹, K. Bourne-Bey¹ and K. Matthews¹. ¹Department of Agriculture and Natural Resources, Delaware State University, Dover, DE.

Presenter: **WRIGHT, TERRENCE G.**

40. *EFFECT OF DIETARY DIVERSITY ON NUTRITIONAL STATUS OF PRESCHOOL CHILDREN IN THE DEMOCRATIC REPUBLIC OF CONGO.* **JOHNPAUL KAGULIRE**¹, Adelia Bovell-Benjamin¹, Asseged Dibaba², and Nelson Oranye^{2*} ¹Department of Food and Nutritional Sciences, Tuskegee University, Tuskegee, AL 36088. ²Department of Public Health, Tuskegee University Tuskegee.

Presenter: **KAGULIRE, JOHNPAUL**

41. *EFFECTS OF POST-BIOTIC SUPPLEMENTATION ON ANIMAL PERFORMANCE, IMMUNE RESPONSES, AND BLOOD METABOLITES IN PRE-WEANING DAIRY CALVES.* **MARILINE HILAIRE**¹, B.R. Min^{1*}, H. H. Wang¹, A. Kumi¹, R. Chen¹, S. Chaudhary¹, V. Kanyi¹, I. Min², U. Kim², J. Lee², and I. Ha², N. Gurung¹, H. Abdo¹, and H. Ismael¹. ¹College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088 ²Loveless Academic Magnet Program High School, 3440 McGehee Rd., Montgomery, AL 36111.

Presenter: **HILAIRE, MARILINE**

42. *EVALUATING THE EFFICACY OF A VINEGAR BASED INGREDIENT (VBI) IN VITRO AGAINST ESCHERICHIA COLI 0157H:7.* **JEFFERSON, GERARD**¹ and C. Harris Department of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088.

Presenter: **JEFFERSON, GERARD**

43. *FOOD INSECURITY FOR NC OLDER ADULTS, RELATING TO COMMUNITY FEATURES, HEALTH CONDITIONS AND AGING-IN-PLACE INTENTIONS.*

CHRISTIANA O UGBEM¹, Sung-Jin Lee², Renee Robinson³, Elizabeth N. Hopfer⁴, & Minyong Lee⁵. Department of Family and Consumer Sciences, College of Agriculture and Environmental Sciences, North Carolina A&T State University

Presenter: **UGBEM, CHRISTIANA O.**

44. *LEVERAGING INDIGENOUS FRUITS AND VEGETABLES FOR FOOD AND NUTRITION SECURITY IN WEST AFRICA: A CASE STUDY FROM GHANA.* **NYAME, JOSEPHINE**¹, F. E. Asem², N. Amissah², J.D. Kolog², E. Bonsi¹, and R. Zabawa¹ ¹College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088, Feed the Future Innovation Lab for Horticulture, West Africa Regional Hub, School of Agriculture, University of Ghana.

Presenter: **NYAME, JOSEPHINE**

45. *MEDICINAL PLANTS AS A SOURCE OF BROAD-SPECTRUM ANTIVIRAL DRUGS TO COMBAT FUTURE PANDEMICS.* **UWAMAHORO, HILARIE**¹, W. Collier², T. Nashar³, D. Mortley⁴, and J. Jaynes⁴. ¹Integrative Biosciences, ²Dept. of Chemistry, ³Dept. of Pathobiology, ⁴Dept. of Ag. and Envi. Sciences, Tuskegee University, Tuskegee, AL 36088.

Presenter: **UWAMAHORO, HILARIE**

46. *IMPACTS OF FERTILITY PRACTICES ON SOIL HEALTH AND WATER QUALITY IN KENTUCKY.* **SANDEEP AIREE**¹, Asmita Bhandari¹, Prakriti Poudel¹, Chizuluoke Nwazuluoke¹, Ngozi Benjamin¹, Olufisayo Obebe¹, Atanu Mukherjee^{1*} ¹ School of Agriculture and Natural Resources, Kentucky State University, Frankfort, KY, 40601.

Presenter: **SANDEEP, AIREE**

47. *IN-SILICO DETECTION OF GENE-SPECIFIC MARKERS FOR CAMPYLOBACTER SPECIES UTILIZING PANGENOME AND CORE GENOME ANALYSIS.* **EMMANUEL KUUFIRE**¹, Kingsley Bentum¹, Rejoice Nyarku¹, Viona Osei¹, Samuel Temesgen¹, Woubit Abebe^{1**} College of Veterinary Medicine, Center for Animal Food Health, Food Safety, and Food Defense, Tuskegee University, Alabama, US.

Presenter: **KUUFIRE, EMMANUEL**

48. *INSIGHTS OF PLANT-BASED BEVERAGE PRODUCTION FOR IMPROVED FOOD SAFETY MEASURES AND CONSUMER HEALTH.* **EMILY AMENYENU**¹, Queen Abbah¹, Byungjin Min^{1*} Department of Food and Nutritional Sciences, Tuskegee University, Tuskegee Alabama US.

Presenter: **AMENYENU, EMILY**

49. *INTERCROPPING FLOWERING PLANTS WITH WATERMELONS AS A HABITAT FOR POLLINATORS FOR SUSTAINABLE CROP PRODUCTION.* **CLIFTON, TREDARIOUS**¹, J. Goings, R. Butler, A. Cruel, D. Moody, J. Scott, T. Rashid, E. Ali, B. Bhatta, and D. Collins. Department of Agriculture, Alcorn State University, Lorman MS 39096.

Presenter: **CLIFTON, TREDARIOUS**

50. *INVESTIGATING THE PERFORMANCE OF RECENTLY RELEASED RABBITEYE BLUEBERRY CULTIVARS FOR SUSTAINABLE PRODUCTION IN ALABAMA.*

JAGJIT SINGH¹, E. Coneva^{*}, M. Trandel-Hayse, M. R. Salazar-Gutierrez, and E. L. Vinson. Dept. of Horticulture, Auburn University, Auburn, AL, 36849.

Presenter: **JAGJIT SINGH, FNU**

51. *QUANTITATIVE EVALUATION OF WHEY PROTEIN CONCENTRATION IN FIRST LACTATION COWS.* **MATTHEW. O. AKINDOYIN**¹ N. Price¹, P. Pande¹, M. R. Uzzaman¹, M. Worku¹; North Carolina Agricultural and Technical State University, Greensboro, NC.

Presenter: **AKINDOYIN, MATTHEW. O.**

52. *UNDERSTANDING HOW FARMERS AND AGRICULTURAL WORKERS USE PESTICIDES IN MACON COUNTY, ALABAMA.* **MOUSTAFA, AMIRA A.**¹, G. El Afandi¹, and M. Irfan¹. ¹Dept. of Ag. And Envi. Sciences, Tuskegee University, Tuskegee AL 36088.

Presenter: **MOUSTAFA, AMIRA A.**

53. *UTILIZATION OF PLANT SECONDARY METABOLITES AS A STRATEGIC TOOL FOR SUSTAINABLE AGRICULTURE AND ENVIRONMENT PROTECTION.* **KANYAIRITA, GETRUDE, G.**³ D. Mortley¹, and W. Collier². ¹Dept. of Ag. and Envi. Sciences, ²Dept of Chemistry at Tuskegee University, and ³Integrative Biosciences, Tuskegee University, Tuskegee, AL 36088.

Presenter: **KANYAIRITA, GETRUDE, G.**

COMPETITIVE: GRADUATE ORAL PRESENTATION

54. *A COMPARATIVE STUDY OF OKRA (Abelmoschus esculentus) GROWN IN FLOODED MEDIA BEDS AND DEEP-WATER-CULTURE AQUAPONIC SYSTEMS: AND THE EFFECT OF PLANT DENSITY ON GROWTH AND PERFORMANCE.* **HANNAH. KNUCKLES M.¹**, R. Lochmann¹, C. Webster², and D. A. Perera¹ ¹Aquaculture & Fisheries Center of Excellence, School of Agriculture, Fisheries and Human Sciences. The University of Arkansas at Pine Bluff, 1200 North University Drive, Pine Bluff, AR, 71601

²USDA-ARS Harry K. Dupree Stuttgart National Aquaculture Research Center (SNARC).

Presenter: **KNUCKLES, HANNAH M.**

55. *A GREENHOUSE SHADING STUDY OBSERVING THE IMPACTS ON HEMP PRODUCTION.* **COOPER, TYRIK J.¹**, Zakiya, H. Leggett¹. ¹Dept. of Forestry and Environmental Resources, North Carolina State University, Raleigh, NC, 27607.

Presenter: **COOPER, TYRIK J.**

56. *A SIMPLE MULTIPLEX PCR ASSAY DEVELOPED FOR RAPID IDENTIFICATION OF FUSARIUM OXYSPORUM F. SP. NIVEUM (FON) RACES 1, 2, AND 3 IN WATERMELON.*

ABDUL-LATEEF, POPOOLA O.¹, S. Waliullah², E. Ali¹. ¹Dept. of Agriculture, Alcorn State University, Lorman, MS 39096, ²Dept. of Biology, Alcorn State University, Lorman, MS 39096.

Presenter: **ABDUL-LATEEF, POPOOLA O.**

57. *ADVANCING EQUITY FOR MINORITY FARMERS: LEGAL AND LEGISLATIVE PATHWAYS IN THE POST-INFLATION REDUCTION ACT.*

MAGEE, BREANNA, Ebony Woodruff⁰¹ and E. Reno⁰². ⁰³¹ Southern University Law Center, Baton Rouge, LA 70807, ⁰⁴² Southern University Law Center, Baton Rouge, LA 70807, ⁰⁵³ The Transcendent Farmer Podcast.

Presenter: **MAGEE, BREANNA**

58. *ANALYSIS OF FACTORS AFFECTING THE ADOPTION OF CLIMATE-SMART AGRICULTURE: A CASE STUDY OF MISSOURI.* **PETER OWOLABI¹**. Department of Agriculture and Environmental Sciences, Lincoln University of Missouri, 820 Chestnut Street, Jefferson City, MO 65101.

Presenter: **OWOLABI, PETER**

59. *ASSESSING NON-POINT SOURCE POLLUTION CONTAMINATION WITHIN THE LOWER TALLAPOOSA SUBBASIN.*

SMITH, BRIANNA A.¹, R. Farid-Tilghman², L. Ogden², R. Whittington.², ¹Department of Integrative Biosciences, ²Department of Agricultural and Environmental Science, Tuskegee University, Tuskegee, AL 36088.

Presenter: **SMITH, BRIANNA A.**

60. *ASSESSING THE EFFECT OF POTYVIRUSES ON THE YIELD OF DIFFERENT GENERATIONS OF SWEET POTATO.* **LINDA MUKIRI¹**

Shermaine J. Critchlow¹, and Sathish Kumar Ponniah¹, ¹Department of Agriculture, School of Agriculture, Fisheries and Human Sciences, University of Arkansas at Pine Bluff.

Presenter: **LINDA MUKIRI**

61. *BACTERIAL CONTAMINATION RISKS IN OYSTERS FROM AN AQUACULTURE FARM IN DELAWARE: A CASE STUDY.*

OFORI, KELVIN F.¹, A. Parsaeimehr², and G. Ozbay^{1,2}. ¹Department of Human Ecology, College of Agriculture, Science, and Technology, Delaware State University, Dover, DE 19901, ²Department of Agriculture and Natural Resources.

Presenter: **OFORI, KELVIN F.**

62. CAN ELDERBERRY-BASED ALLEY-CROPPING SUPPORT GROWTH, FOOD PRODUCTION, AND SUSTAINABILITY IN KENTUCKY? **PAUDEL SANTOSH**¹, U. Suraj, B. Sudha, N. Theoneste, C. Anuj, and M. Srijana T. College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601.

Presenter: **PAUDEL, SANTOSH**

63. COMMON FACTOR AUGMENTED FOOD DEMAND FORECASTING FOR ALABAMA FOOD PANTRIES. **MENGXUE Li**¹, Rui Chen², Yin Sun²

Presenter **Li, MENGXUE.**

64. CONSUMER BASED ASSESSMENT ANALYSIS OF LOCAL ORGANIC BEEF VERSUS GRAIN FINISHED BEEF. **MURPHY, IMANI.** Dept. of Ag. and Envi. Sciences, Tuskegee University, Tuskegee, AL 36088.

Presenter: **MURPHY, IMANI.**

65. DETERMINATION OF THE EFFICACY OF ORGANIC AND INORGANIC NUTRIENT SOURCES ON AGRONOMIC PERFORMANCE OF COMMON BEANS (*PHASEOLUS VULGARIS*). **G.N, AKEZA**^{1,2}, D., Mumararungu¹, A., Ireba¹, and T. Nzaramyimana, PhD¹ Rwanda Institute for Conservation Agriculture (RICA), Kagasa-Batima Rd, off RN 15 Gashora, Bugesera, Rwanda² Kentucky State University, College of Agriculture, Communities and Sciences, 400 E Main St, Frankfort, KY 40601.

Presenter: **G.N, AKEZA**

66. DEVELOPMENT OF “EZA”, A NEW PESTICIDE SUITABLE FOR ORGANIC PRODUCTION OF HORTICULTURAL CROPS. **M. MERCI UWIMBABAZI**¹, NZARAMYIMANA. 1Rwanda Institute for Conservation Agriculture (RICA), Kagasa-Batima Rd, off RN 15 Gashora, Bugesera, Rwanda, 2Kentucky State University, College of Agriculture, Communities and Sciences (CACS), Kentucky, United States, Frankfort, 40601.

Presenter: **UWIMBABAZI, M. MERCI**

67. DEVELOPMENT OF FOOD PATTERNS OF INDIGENOUS AFRICAN FOODS CONSUMED IN THE U.S. TO IMPROVE DIET QUALITY AND TO PROMOTE HEALTHY FOOD CHOICES. **YVETTE MUKUNZI**¹, S. Besong and A.N.A. Aryee. Department of Human Ecology (Food Science and Biotechnology Program), Delaware State University, Dover, DE 19901.

Presenter: **MUKUNZI, YVETTE**

68. EFFECT OF LIVAMOL WITH BIOWORMA ON HEMATOLOGICAL PARAMETERS IN KIKO DOES DURING LATE PREGNANCY AND EARLY LACTATION. **WHITE, ERYN I. C.**¹, U. Karki¹, S. Lamsal¹, D. Dhakal¹, A. Acharya¹. ¹Department of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088.

Presenter: **WHITE, ERYN I. C.**

69. EFFECT OF BLACK WALNUT HULL POWDER AND SERICEA LESPEDEZA ON SYSTEMIC INNATE IMMUNE RESPONSE ACTIVATION IN LAMB. **HENRIETTA OWUSU**¹, Emmanuel Asiamah^{1*}, Joan Burke², Rohila Suman². University of Arkansas at Pine Bluff, Pine Bluff, AR, USA¹, United States Department of Agriculture, ARS, Booneville, AR, USA²

Presenter: **OWUSU, HENRIETTA**

70. *ELDERBERRY AS AN ALLEY CROP: SUSTAINABLE SOLUTION FOR ENHANCING SOIL HEALTH.* **BHANDARI SUDHA**¹, U. Suraj, P. Santosh, G. Maheteme, and N. Theoneste. College of Agriculture, Health and Natural Resources, Kentucky State University, Frankfort, KY 40601

Presenter: **BHANDARI, SUDHA**

71. *EPIDEMIOLOGICAL ASPECTS OF PHYTOPLASMAS INFECTING TOMATO, EGGPLANT, AND ALFALFA IN RELATION TO SEED TRANSMISSION.* **MATEETI, SRITEJ**¹, A. Bertaccini², and E. Ali¹. Dept. of Agriculture, ¹Alcorn State University, Lorman, MS 39096, ²Dept. of Agriculture, Bologna, Italy.

Presenter: **MATEETI, SRITEJ**

72. *ESTIMATION OF SOIL MOISTURE AT VARYING DEPTHS USING MULTIPLE SATELLITE-DERIVED INDICES AND IN-SITU VALIDATION.* **OLAKANMI, ENIOLA E.**¹, J. Quansah¹, and S. Fall¹. ¹Dept. of Ag. and Envi. Sciences, Tuskegee University, Tuskegee, AL 36088

Presenter: **OLAKANMI, ENIOLA E.**

73. *ESTIMATING THE SURVIVAL RATE OF SWEET POTATO SLIPS IN FIELD CONDITIONS.*

AJITHA RAVIKUMAR¹, Elijah Agene¹, and Sathish Kumar Ponniah¹. ¹Department of Agriculture, School of Agriculture, Fisheries and Human Sciences, University of Arkansas at Pine Bluff.

Presenter: **AJITHA RAVIKUMAR**

74. *EXAMINING BARRIERS TO RECREATIONAL FISHING AMONG PEOPLE OF COLOR IN ARKANSAS.* **WILLIAMS FIELDS**, Annette D., S. Lochmann. Dept. of Aqua/Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.

Presenter: **WILLIAMS FIELDS**

75. *EXPLORATION OF NOVEL DETECTION METHODS FOR AIRBORNE PHYTOPATHOGENS IN VEGETABLES UTILIZING A SPORE TRAPPING SYSTEM.*

WALLACE, MIKERIA K.¹, S. Waliullah², C. Zhang², E. Ali²; Department of Agriculture, Alcorn State University.

Presenter: **WALLACE, MIKERIA K.**

76. *FOOD INSECURITY AND CLIMATE CHANGE; THE ROLE OF INSTITUTIONS*

KWADWO ANTWI-WIAFE¹; Osei-Agyeman Yeboah^{1,2}; Godwin Agbenyezi¹; Martin Ntiamoah Ansong¹; Michael Asiedu-Antwi¹; Douglas Akwasi Kwarteng¹. ¹L.C. Cooper Jr., International Trade Center, North Carolina Agricultural and Technical State University.

Presenter: **ANTWI-WIAFE, KWADWO**

77. *GROWTH PERFORMANCE AND POST-HARVEST LONGEVITY OF BOK CHOI CULTIVATED IN VARIOUS HYDROPONIC SYSTEMS.* **JARED MIMBS**¹, B. Biswas, and P. Tamang. Department of Biotechnology, Fort Valley State University.

Presenter: **MIMBS JARED**

78. *GROWTH RESPONSE OF TWO TOMATO VARIETIES TO VARYING NPK RATES IN A CONTROLLED ENVIRONMENT.*

ADEKUNLE ADEYEYE¹, A. Kofi¹, and T. Nzaramyimana². ¹ College of Agriculture, Community and the Sciences, Kentucky State University, KY 40601, ² Faculty Advisor, College of Agriculture, Community and the Sciences, Kentucky State University, KY 40601.

Presenter: **ADEKUNLE ADEYEYE**

79. *HEIRS PROPERTY: THE IMPACT OF THREE REGIONS IN ALABAMA.* **OBIANUJU, EGIEBOR.**, R. Zabawa, Faculty Advisor. Dept. of Ag. and Envi. Sciences, Tuskegee University, AL 36088

Presenter: **OBIANUJU, EGIEBOR**

80. *HEMP FOR HOPE: COMMUNITY ENGAGEMENT AMONG ALABAMA HEMP FARMERS IN A MODEL FOR SUCCESS.* **BRAZELTON, ELIZABETH** and C.D. Lynn, Dept. of Anthropology, The University of Alabama, Tuscaloosa, AL 35487.

Presenter: **BRAZELTON, ELIZABETH**

81. *HUNGARIAN YELLOW WAX SWEET PEPPER'S GROWTH, QUALITY, AND YIELD RESPONSE UNDER DIFFERENT PRODUCTION SYSTEMS.* **ALEX KOFI**¹, A. Adeyeye¹, and T. Nzaramyimana². ¹College of Agriculture, Community and the Sciences, Kentucky State University, KY 40601.

Presenter: **KOFI, ALEX**

82. *IMPACT OF INTEGRATED CROP AND SMALL-RUMINANT ROTATION ORGANIC SYSTEM ON SOIL HEALTH.* **ASMITA BHANDARI**^{1*}, Sandeep Airee¹, Shawn Lucas^{1,2}, Atanu Mukherjee¹. ¹School of Agriculture and Natural Resources, Kentucky State University, Frankfort, KY, 40601 At Ext - Programming & Fac Sup, University of Vermont, Burlington, VT, 05405

Presenter: **BHANDARI, ASMITA**

83. *IN-VITRO FERMENTATIVE INVESTIGATION OF CALF GROWER FEED WITH ADDITIVE COMBINATIONS OF LACTOBACILLUS PLANTARUM, RUMACELL® AND ESSENTIAL OIL BLEND.* **ADELUSI OLU DOTUN**¹, Alabi Joel, Ike Kelechi Wuaku Michael, Oderinwale Olatunde, Enikhuomelin James, Kholif Ahmed and Uchenna Anele* Department of Animal Science, NCAT, Greensboro 27411, NC.

Presenter: **ADELUSI, OLU DOTUN**

84. *MOLECULAR DIFFERENTIATION OF TOXIGENIC AND NON-TOXIGENIC ASPERGILLUS FLAVUS STRAINS AND MICROBIAL COMMUNITY ANALYSIS IN PEANUT SEEDS.* **MASUD, MD MOSTAFA.**¹, S. Waliullah², and E. Ali¹. Dept. of Agriculture, ¹Alcorn State University, Lorman, MS 39096, ²Dept. of Biology, Alcorn State University, Lorman, MS 39096.

Presenter: **MASUD, MD MOSTAFA**

85. *NUTRITIONAL AND FUNCTIONAL PROPERTIES OF ALTERNATIVE PLANT-SOURCED INGREDIENTS FOR DEVELOPING READY-TO-USE-THERAPEUTIC FOOD (RUTF).*

EVANS OTOO¹ and A.N.A. Aryee, Ph.D. Department of Human Ecology, Delaware State University, Dover, DE 19901.

Presenter: **OTOO, EVANS**

86. *OPTIMIZING ALGAL TURF TECHNOLOGY FOR ENHANCED NUTRIENT REMEDIATION AND BIOMASS PRODUCTION IN AGRICULTURAL SYSTEMS.* **KAYLA N. MCKINLEY**^{*1}, G. Blank¹, A. Parsaeimehr¹, and G. Ozbay ¹College of Agriculture, Science & Technology, Delaware State University, Dover, DE 19901.

Presenter: **MCKINLEY, KAYLA N.**

87. *PERFORMANCE ELABORATION OF SHEEP AND COW ORGANIC PELLET FERTILIZERS ON LETTUCE (LACTUCA SATIVA).* **E., MURWANASHYAKA**^{1,2}, T. Nzaramyimana, I. C., Nsengiyumva¹ ²Kentucky State University, College of Agriculture, Communities and Sciences (CACS) Kentucky, ¹Earth University, Mercedes de Guacimo Limón, Costa Rica.

Presenter: **MURWANASHYAKA, ERIC**

88. *PERSPECTIVES OF MINORITY YOUTH IN AGRICULTURAL CONSERVATION PRACTICES THROUGH EXPERIENTIAL LEARNING*. **C. CARPENTER**^{1*}, Z. Wiley², and L. Hobbs, Jr.³, J. Cowan¹, 2021 Throckmorton Hall ¹Department of Horticulture and Natural Resources, ²Diversity Programs Office, ³Department of Agricultural Economics, College of Agriculture, Kansas State University.

Presenter: **CARPENTER, CHARLES**

89. *PREVALENCE, CHARACTERIZATION, AND ANTIMICROBIAL RESISTANCE (AMR) PROFILING OF SALMONELLA FROM BACKYARD CHICKENS*. **CHAPAGAIN, SANDESH** Ariel Clay, Jennifer R. Timmons, Janak Dhakal^{*}. Department of Agriculture, Food and Resource Sciences, UMES, 21853, MD.

Presenter: **CHAPAGAIN, SANDESH**

90. *PREVALENCE, RISK FACTORS, AND ANTIBIOGRAM OF STAPHYLOCOCCUS AUREUS ISOLATED FROM MILK OF SUBCLINICAL MASTITIS-AFFECTED CATTLE IN RUPANDEHI, NEPAL*. **SAGAR ACHARYA**¹ Nishant Shah¹, Uma Karki^{2**} ¹Department of Veterinary Medicine, Institute of Agriculture & Animal Sciences, Tribhuvan University, Nepal. ²DAES, Tuskegee University, Tuskegee, AL

Presenter: **ACHARYA, SAGAR**

91. *PROCESSING IMPACT ON ANTINUTRIENT LEVELS, MINERAL CONTENT, AND BIOAVAILABILITY IN BIOFORTIFIED LENTILS*. **ASMITA ARYAL**¹ and A.N.A. Aryee^{*}. Food Science and Biotechnology Program, Department of Human Ecology, College of Agriculture and Technology, DSU, Dover, DE.

Presenter: **ARYAL, ASMITA**

92. *RAISING WATER pH TO COMBAT IRON TOXICITY: A POTENTIAL SOLUTION FOR FARMING CATFISH IN IRON POLLUTED WATER*. **BHATTACHARJEE, TILUTTOM**¹, F. I. Fahim¹, K. Adhikari¹, M. Jones¹, H. Knuckles¹, S. Bhattarai¹, and A. Sinha¹. ¹Dept. of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.

Presenter: **BHATTACHARJEE, TILUTTOM**

93. *RAISING WATER pH CAN PROTECT CATFISH FROM AMMONIA TOXICITY* **FAHIM, FATIN I.**¹, T. Bhattacharjee¹, M. Thompson¹, K. Adhikari¹, S. Bhattarai¹, H. Knuckles¹, and A. Sinha¹. ¹Dept. of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.

Presenter: **FAHIM, FATIN I.**

94. *STRAIGHT PIPING IN RURAL ALABAMA: THE SOCIOLOGY OF INFRASTRUCTURE AND COMMUNITY HEALTH*. **ONIFADE, ABOSEDE**¹, and Thomson, Ryan². ¹Dept. of Soc., Anthro., & Social Work. Auburn University, Auburn, AL 36849, ²Dept of Ag Econ and Rural Soc., Auburn University, Auburn, AL 36849.

Presenter: **ONIFADE, ABOSEDE**

95. *SUSTAINABLE WASTE MANAGEMENT: UTILIZING SPENT MUSHROOM SUBSTRATE TO CREATE ECO-FRIENDLY RUMINANT FEEDS*. **ALABI, JOEL O**¹, O.O. Adelusi¹, O.A. Oderinwale¹, D.O. Okedoyin¹, M. Wuaku¹, J.M. Enikuomhin¹, K.A. Ike¹, A.E. Kholif¹, and U.Y. Anele¹. ¹Dept. of Animal Sciences, Coll. of Ag. and Envi. Sciences, North Carolina A&T State University, Greensboro, NC 27411

Presenter: **ALABI, JOEL O**

96. *THE DEVELOPMENT OF TRIPLOID INDUCTION METHODS FOR SUNSHINE BASS PRODUCTION IN COMMERCIAL AQUACULTURE.* **GARCIA-VAZQUEZ, SAMUEL**¹, D. Straus², D. A. Perera¹. ¹Aquaculture and Fisheries Center of Excellence, The University of Arkansas at Pine Bluff, Pine Bluff AR 71601, ² Stuttgart National Aquaculture Research Center, United States Department of Agriculture.

Presenter: **GARCIA-VAZQUEZ, SAMUEL**

97. *THE EFFECTS OF EXTREME CLIMATIC CONDITIONS ON FOREST FIRES IN ALABAMA'S BLACK BELT.* **S. IBRAHIM**¹ and G. El Afandi¹ * College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, AL 36088, USA.

IBRAHIM, SALEM

98. *THE EFFECT OF MEDIA TREATMENTS ON TERPENE EXPRESSION IN GREENHOUSE GROWN ANNUALS IN OKLAHOMA.* **JACKSON, DAVIONA M.**¹, C. R. Hishaw¹, and T.L. Payton¹, Advisor. ¹Department of Agriculture and Natural Resources, Sherman Lewis School of Agriculture and Applied Sciences, Langston University.

Presenter: **JACKSON, DAVIONA M.**

99. *THE ROLE OF WEEDS IN THE SPREAD OF SWEETPOTATO VIRUSES.* **ELIJAH AGENE**¹ and Sathish Kumar Ponniah,¹ ¹Department of Agriculture, University of Arkansas at Pine Bluff

Presenter: **AGENE, ELIJAH**

100. *TRADE GROWTH AND HUMAN RIGHTS UNDER THE AFRICAN GROWTH AND OPPORTUNITY ACT.* **SOLOMON, JR. IVAN K. H.**, T. Gautam. College of Agriculture, Environment & Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088.

Presenter: **SOLOMON, JR. IVAN K. H.**

101. *TRAINING TOMORROW'S AGRICULTURALISTS: A CROSS-CULTURALIST STUDY OF STUDENT PERCEPTIONS ON AGROFORESTRY AND RURAL DEVELOPMENT AMONG NEPALI AND US STUDENTS.* **TIMMONS, TOMMERON D.**, O. Bolden-Tiller; and N. Gurung, College of Agriculture, Environment and Nutrition Sciences, C. Prakash, College of Arts and Sciences, Tuskegee University, Tuskegee, AL 36088.

Presenter: **TIMMONS, TOMMERON D.**

102. *USING PERENNIAL GROUND COVERS IN MIDWEST AGRICULTURE TO SUSTAIN HIGH CROP PRODUCTIVITY AND REDUCE ENVIRONMENTAL IMPACT.* **ST CYR, MALCOLM Y.**¹, M. McDaniel². ¹Dept. of Agronomy, Iowa State University, Ames, IA 50011, ²Dept. of Agronomy, Iowa.

Presenter: **ST CYR, MALCOLM**

NON-COMPETITIVE PRESENTATION

103. *AGRICULTURAL EXPERIENCES WITH THE WISCONSIN NATURAL RESOURCES CONSERVATION SERVICE DEPARTMENT OF ENGINEERING.* **ROBERTS, JAYLEN**¹, Peterson, beth² College of Science, Technology, Engineering, Mathematics, and Transportation, South Carolina State University¹, Orangeburg, SC, 29115, United States and Natural Resources Conservation Service State Office², WI.

Presenter: **ROBERTS, JAYLEN**

104. *ASSESSING THE PRODUCTIVITY AND ECONOMIC IMPACTS OF DROUGHT ON AGRICULTURE FOR MINORITY FARMERS IN UNDERSERVED COMMUNITIES.* **EBBUAH, LYDIA E**¹, J. Quansah¹, and S. Fall¹. ¹Dept. of Ag. and Envi. Sciences, Tuskegee University, Tuskegee, AL 36088.

Presenter: **EBBUAH, LYDIA E**

105. *BRIDGING BORDERS: EXPLORING CHINA'S AGRICULTURAL MODERNIZATION AND LABOR DYNAMICS THROUGH A U.S. AGRICULTURAL EDUCATION LENS.* **GRANT, KAYLA**¹, O. Bolden-Tiller¹, ¹College of Agricultural, Environmental, and Nutritional Sciences, Tuskegee University, Tuskegee, AL 36088.

Presenter: **GRANT, KAYLA**

106. *COMPARATIVE ANALYSIS OF TERRESTRIAL SALAMANDER PREY AND PREDATOR DYNAMICS IN RELATION TO SOIL MOISTURE LEVELS AT DISTINCT LOCATION IN TUSKEGEE, ALABAMA.* **WILLIAMS, ANTONIA N**¹. R.Farid-Tilghman. Department of Ag. and Envir. Sciences, Tuskegee University, Tuskegee, AL 36088, Dept. of Wildlife and Nat. Resource.

Presenter: **WILLIAMS, ANTONIA N.**

107. *CONSUMER BASED ASSESSMENT ANALYSIS OF LOCAL ORGANIC BEEF VERSUS GRAIN FINISHED BEEF.* **MURPHY, IMANI**¹. Dept. of Ag. and Envi. Sciences, Tuskegee University, Tuskegee, AL 36088

Presenter: **MURPHY, IMANI**

108. *COVER CROP VERSUS NO IMPACT ON WATER QUALITY AND SOIL HEALTH.*

WILLIS, JELANI¹ and White, T.² UAPB Discovery Farm Educational Center, University of Arkansas at Pine Bluff, 1200 N. University Drive, Mail Slot 4912, Pine Bluff, Arkansas 71601.

Presenter: **WILLIS, JELANI**

109. *CRISPR-MEDIATED BASE EDITING OF TARGET GENES TO IMPROVE DROUGHT TOLERANCE IN CHICKPEA (*Cicer arietinum* L.)* **SUMAN VEERAMASU**¹ NI Elarabi³, KA Sabouni⁴, A Hamwieh⁴, AA Abdelhadi³, N Alsekhni⁴, D Mortley¹, NA Abdallah,³ P Channapatna.² ¹College of Agricultural, Environmental and Nutritional Sciences, ² of Arts & Sciences, Tuskegee University, Tuskegee, AL, USA. ³Dept. of Genetics, Faculty of Agriculture, Cairo University, Giza, Egypt. ⁴Dept. of Biotechnology, International Centre for Agricultural Research in the Dry Areas (ICARDA), Giza, Egypt.

Presenter: **VEERAMASU, SUMAN**

110. *CURATING MY CAREER ONE SUMMER AT A TIME.* **BUTLER, KENYA J.**¹ and S. Keith², 1890 Research and Extension¹, South Carolina State University, Orangeburg, SC, 29117, United States, United States Department of Agriculture Farm Service Agency², Anderson, SC29625, United States.

Presenter: **BUTLER, KENYA J.**

111. *EVALUATING FOREST DISTURBANCE IMPACT ON BIRD SPECIES RICHNESS.* **AMIN, SHACARI A**¹., Advisor R. Farid, CAENS DEPARTMENT, Tuskegee University, Tuskegee, AL 36088

Presenter: **AMIN, SHACARI A.**

112. *GOAT SILVOPASTURE: A NOVEL APPROACH TO SUSTAINABLE LIVESTOCK PRODUCTION.* **JULIANA NOI¹**, O. Tobiloba², S. Bardhan², M. Acharya². ¹Dept. of Ag. and Envi. Sciences, Lincoln University, Jefferson City, MO 65101.

Presenter: **NOI, JULIANA**

113. *HAEMATOCOCCUS PLUVIALIS ENCAPSULATION IN ALGINATE-BASED HYDROGELS: A BIOPHYSICAL EVALUATION.* **ONINKU, BECKHAM¹**, M.W. Lomas², G. Burr³ and A.N.A. Aryee^{1*}. ¹Food Science & Biotechnology Program, Department of Human Ecology, College of Agriculture and Technology Delaware State University, 1200 N Dupont Highway, Dover, DE 19901, ²Bigelow Laboratory for Oceanic Sciences, National Center for Marine Algae and Microbiota (NCMA), 60 Bigelow Drive, East Boothbay, ME 04544, ³National Cold Water Marine Aquaculture Center, USDA-ARS, NCWMAC, 25 Salmon Farm Road, Franklin, ME 04634.

Presenter: **ONINKU, BECKHAM**

114. *INDIAN GRASS (SORGHASTRUM NUTANS) IMPACT ON WATER QUALITY AND SOIL HEALTH BEASLEY.* **JAMARION BEASLEY¹**, T.² UAPB Discovery Farm Educational Center, University of Arkansas at Pine Bluff, 1200 N. University Drive, Mail Slot 4912, Pine Bluff, Arkansas 71601.

Presenter: **BEASLEY, JAMARION**

115. *INNOVATIVE COVER CROPPING APPROACH TO ENHANCE RESILIENCE TO CLIMATE CHANGE FOR MINORITY FARMERS.* **AMONOO, JOHN K. G.¹**, J. E. Quansah¹, A. Kumi¹ and S. Fall¹. ¹Dept. of Ag. & Envi. Sciences, Tuskegee University, AL 36088.

Presenter: **AMONOO, JOHN K. G.**

116. *INVESTIGATION OF CONTAMINATED MEAT SOLD AT RETAIL MARKETS.* **DAVIS, KESHAUNA¹** and C. Harris² Department of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088.

Presenter: **DAVIS, KESHAUNA**

117. *MISSION CRITICAL: A LOOK INTO THE IMPORTANCE OF THE AGRICULTURAL MARKETING SERVICE.* **GRANT, KAYLA.** Department of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088

Presenter: **GRANT, KAYLA**

118. *OPPORTUNITIES AND IMPACTS OF FIELD EXPERIENCES IN SUSTAINABLE AGRICULTURE.* **FENNELL, PENELOPE¹**, Public Service in Agriculture, South Carolina State University, Orangeburg, SC 29117.

Presenter: **FENNELL, PENELOPE**

119. *TUSKEGEE AGRICULTURAL MARKETING SERVICE FELLOWS' INTERNSHIP.* **WEBSTER, TYRIC.** Dept. of Ag. and Envi. Sciences, Tuskegee University, Tuskegee, AL 36088.

Presenter: **WEBSTER, TYRIC**

120. *USDA-AMS INTERNSHIP SUMMARY ON GRADING AND INSPECTION.* **KANYI, VIVIAN¹**, Tiffani Williams¹, Olga Bolden¹ ¹ College. of Agriculture Environment, & Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088, ¹Dept. of Animal Science

Presenter: **KANYI, VIVIAN**

GLOBAL AGRICULTURE AND AGRIBUSINESS CASE STUDY COMPETITION

121. FOOD PROCESSING AND EXPORT IN GHANA: A PATHWAY TO FOOD SECURITY.

Holliman, O¹., Scott, S¹., & Oninku, B.². ¹College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088, ²College of Agriculture, Science and Technology, Delaware State University, Dover, DE 19901.

Presenters: **Holliman, O., Scott, S., & Oninku, B.**

SPONSORS

DIAMOND SPONSORS



Alcorn®

SOCIALLY DISADVANTAGED FARMERS
AND RANCHERS POLICY RESEARCH CENTER

PLATINUM PLUS SPONSOR



United States Department of Agriculture
Animal and Plant Health Inspection Service

PLATINUM SPONSOR



United States Department of Agriculture
Economic Research Service

SILVER SPONSORS



BRONZE



**SOUTHERN
EXTENSION
RISK
MANAGEMENT
EDUCATION**



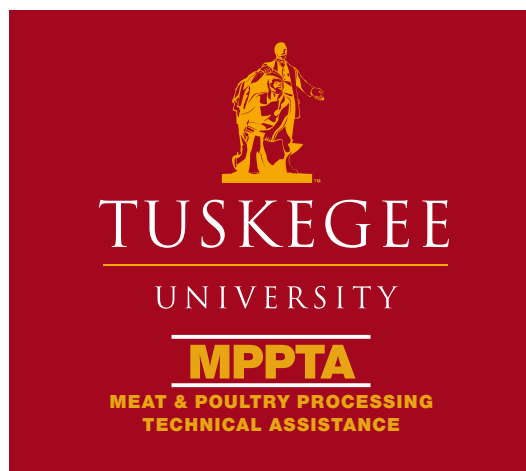
**UNIVERSITY OF GEORGIA
EXTENSION**



PARTNERS



CFSRPES



ADDITIONAL FUNDING



National Institute of Food and Agriculture
U.S. DEPARTMENT OF AGRICULTURE

This work is supported by the 82nd Professional Agricultural Workers Conference Grant, [2024-67024-43186], from the U.S. Department of Agriculture's National Institute of Food and Agriculture Small and Medium Sized Farms Program.

PAWC ADVISORY BOARD

Olga Bolden-Tiller, Tuskegee University, Chair
 Walter Hill, Tuskegee University, Co-Chair
 Tasha M. Hargrove, Tuskegee University, Co-Chair
 Robert Zabawa, Tuskegee University, Coordinator
 Karen Craig, Tuskegee University, Coordinator
 John Williams, USDA APHIS (Retired), Chair PAWC Advisory Board

GSD PROGRAM COODINATORS

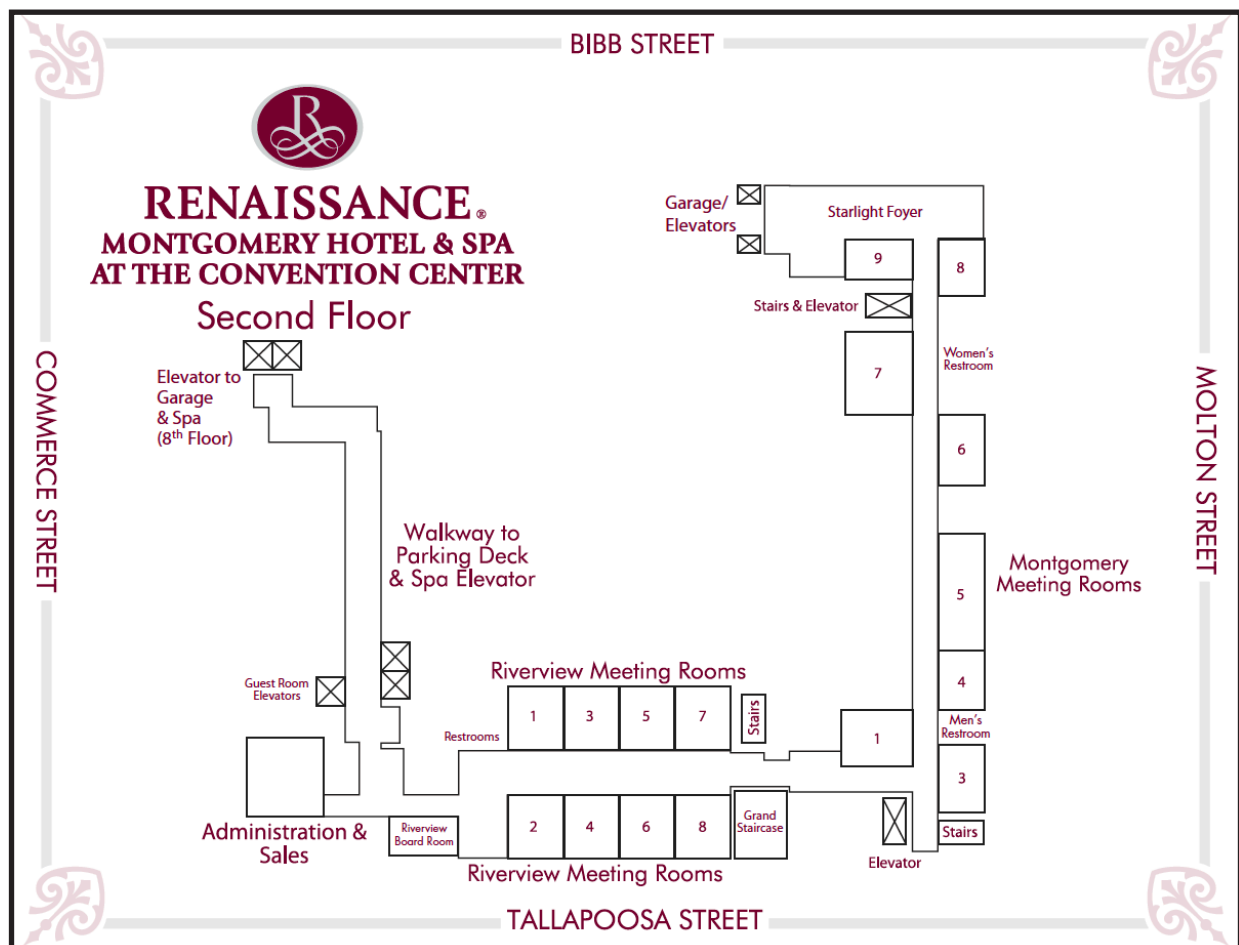
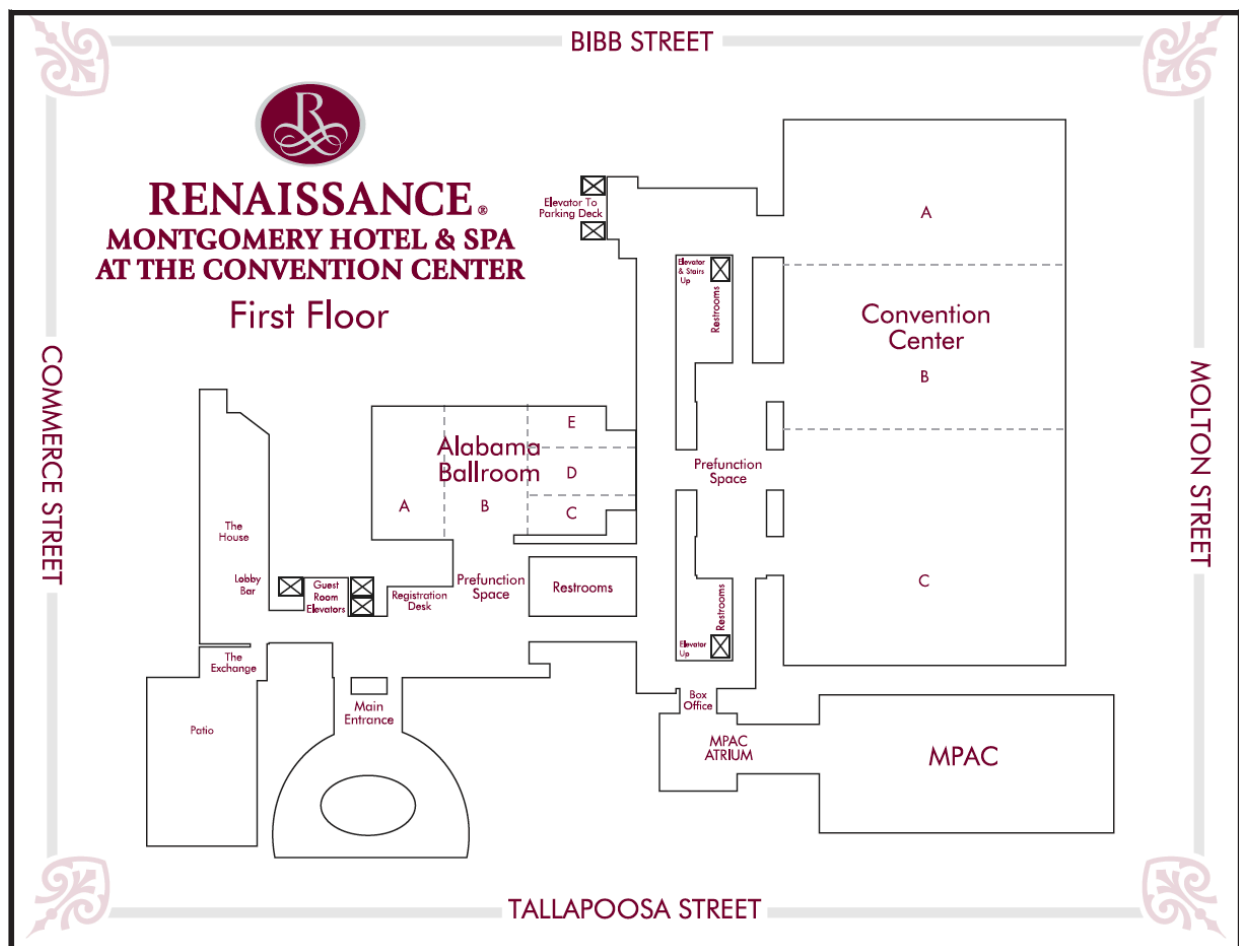
Lucy Asnie-Baah
 Marceline Egnin
 Jannette Bartlett

PAWC ADVISORY BOARD MEMBERS

Catherine Barnett, Freedom to Thrive
 Rhonda Benton, Rhema Ranch
 Sarah Bobrow-Williams, Tuskegee University & SRWI
 Edmund Buckner, Alcorn State University
 Carl Butler, NetworkAG
 Melvin Carter, USDA-NIFA
 Ralph Christy, Cornell University
 Iris Cole-Crosby, University of Arkansas at Pine Bluff
 William A. Crutchfield, Virginia State University
 Vivian Dickson, USDA – NRCS
 Amadou Diop, US Forest Service
 Rosalind Harris, University of Kentucky
 Karla Martin Hollis, USDA
 Lonnie Hobbs, Jr., Kansas State University
 Terrell Hollis, Fort Valley State University
 Larry Holmes, USDA NRCS (retired)
 Peter Kanyi, Tuskegee University
 Lila Karki, University of Maryland Eastern Shore
 Lindsey Lunsford, Tuskegee University
 Suchet Loois, Tuskegee University
 Dyremple Marsh, Delaware State University
 Christopher Mathis, University of Arkansas Pine Bluff
 Jimmy McAlpine, USDA – ARS
 Ray Mobley, Florida A & M University
 Dawn Mellion-Patin, Southern University (Retired)
 Shannon Payne, Tuskegee University
 Willie Pittman, USDA NRCS Retired
 Nii Tackie, Tuskegee University
 Zelia Wiley, Kansas State University
 Dreamal Worthen, Florida A & M University

PAWC LOCAL PLANNING MEETING

Program:	Tasha Hargrove, Robert Zabawa, 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:	Elizabeth Whetstone, Shannon Payne, Karen Craig, Shirley Brown, Wanda Carpenter-Morrow, De Ambria Abner, Tasha Hargrove, Beverly Green
Help Desk:	Beverly Green, Elizabeth Whetstone, Shannon Payne, Doris Eaves, Karen Craig, Shirley Brown, Tiffani Williams, and De Ambria Abner
Posters:	Beverly Green, Edward Gray, Tej Gautam, Clarissa Harris, and Barrett Vaughan
Exhibits:	Tiffani Williams, Karen Craig, Tasha Hargrove
Student Presentations	Lucy Asare-Baah, Jannetta Bartlett, Marceline Egnin, Norma Dawkins, Barrett Vaughan, Tiffani Williams, 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, and Tuskegee University Cooperative Extension Program
Technology & Website:	Peter Kanyi, Karen Craig, Doug Eaves, Maurice Antoine, and Tasha Hargrove
Hospitality:	Miles Robinson, Barrett Vaughan, and Rodney Stone
TAPS	Lakiah Clark, Janet Sullen, Clarissa Harris, Olga Bolden-Tiller
MANRRS	Clarissa Harris and TU MANRRS Chapter
Awards	Robert Zabawa, Olga Bolden-Tiller, Walter Hill, and Karen Craig
PAWC	Tuskegee University Faculty, Staff, Students, and Cooperative Extension Program



NOTES



TUSKEGEE UNIVERSITY

Tuskegee University is accredited with the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate, master's, doctorate, and professional degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Tuskegee University.