



STRENGTHENING OUR LEGACY & ADVANCING THE LAND-GRANT
MISSION: INNOVATIONS IN RESEARCH, EDUCATION, & EXTENSION

20
25

NOV
16-18

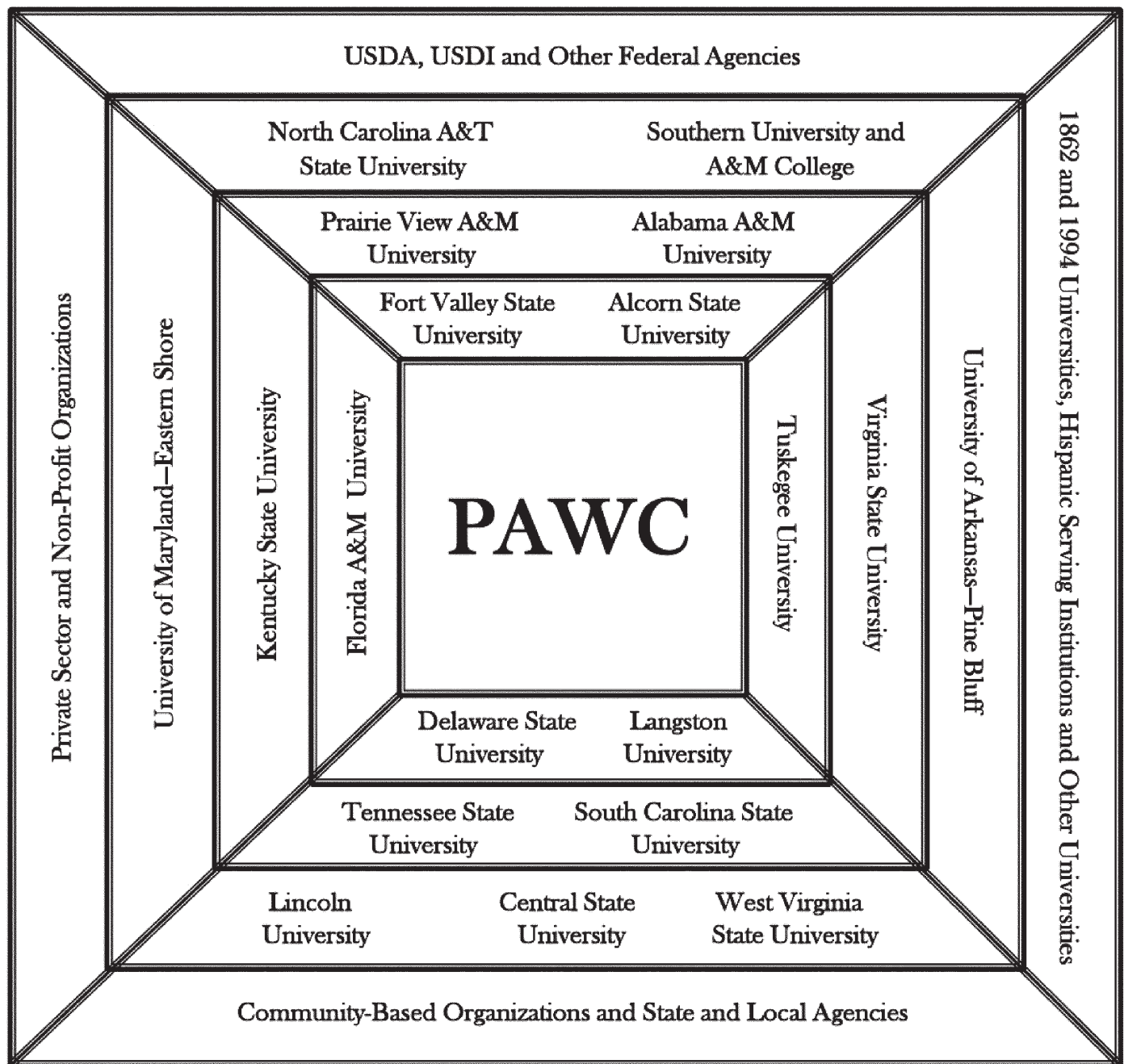
RENAISSANCE
MONTGOMERY
HOTEL & SPA

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.

LET'S CONNECT!



The 83rd PAWC will be using WHOVA as the official mobile app. Use the Whova app to plan your conference experience, stay updated on the latest news, view summaries of each presentation, view your schedule, submit evaluations, ask questions, and more!

Instructions for Using the Whova App

1. Download the WHOVA app from the App Store
2. Enter the email address you used for event registration
3. Create a password and type in your name
4. Create an account if needed
5. Click on the link that was provided or search for the 83rd Professional Agricultural Workers Conference (PAWC)
6. Create or edit your profile. You will be able to connect with other participants via the app.



NETWORK: **RENAISSANCE**
PASSWORD: **PAWC2025**



PAWC Bus Schedule

November 16-18, 2025

Pre-registration with TU's security is required.



Sunday, November 16, 2025

	From:	To:	Departure Time
1	Renaissance Montgomery Convention Center	Tuskegee University Kenny Hall	7:00 AM
	Tuskegee University Kenny Hall	Renaissance Montgomery Convention Center	9:00 AM
2	Renaissance Montgomery Convention Center	Tuskegee University Kenny Hall	11:00 AM
	Tuskegee University – BTW Monument	Renaissance Montgomery Convention Center	2:30 PM
3	Renaissance Montgomery Convention Center	Tuskegee University- Monument	3:30 PM
	Tuskegee University BTW Monument	Renaissance Montgomery Convention Center	5:00 PM
4	Renaissance Montgomery Convention Center	Tuskegee University BTW Monument	9:00 PM

Monday, November 17, 2025

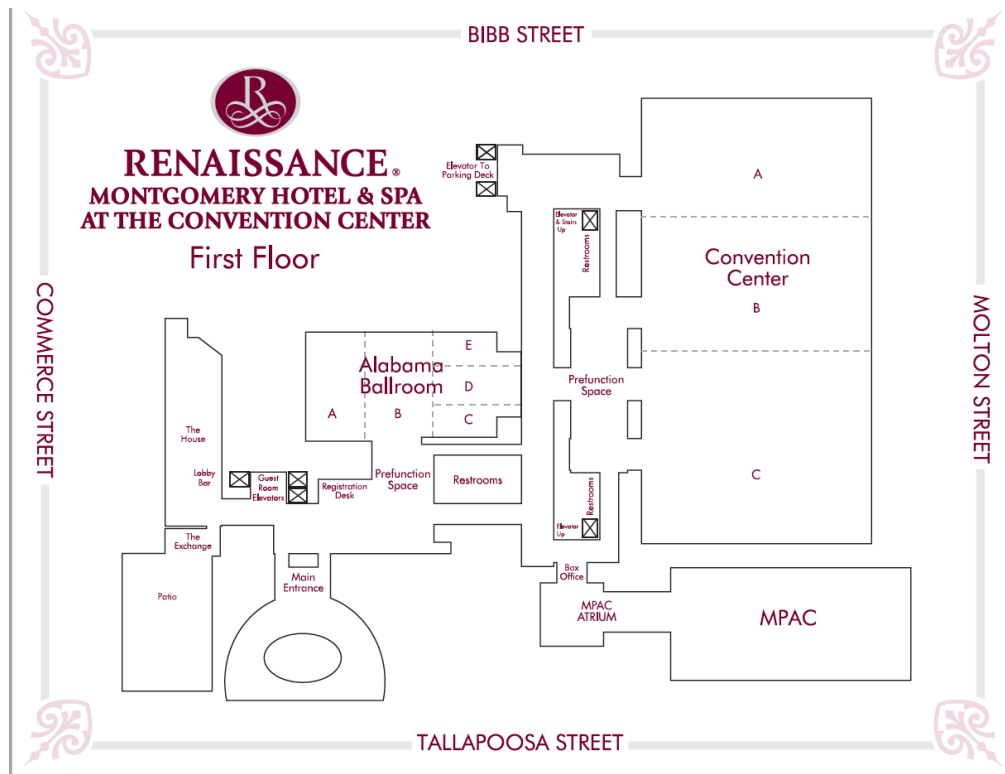
	From:	To:	Departure Time
1	Tuskegee University BTW Monument	Renaissance Montgomery Convention Center	6:30 AM
	Renaissance Montgomery Convention Center	Tuskegee University BTW Monument	1:00 PM
2	Tuskegee University – BTW Monument	Renaissance Montgomery Convention Center	2:00 PM
	Renaissance Montgomery Convention Center	Tuskegee University -BTW Monument	5:30 PM
3	Renaissance Montgomery –	Tuskegee University – BTW Monument	10:30 PM

Tuesday, November 18, 2025

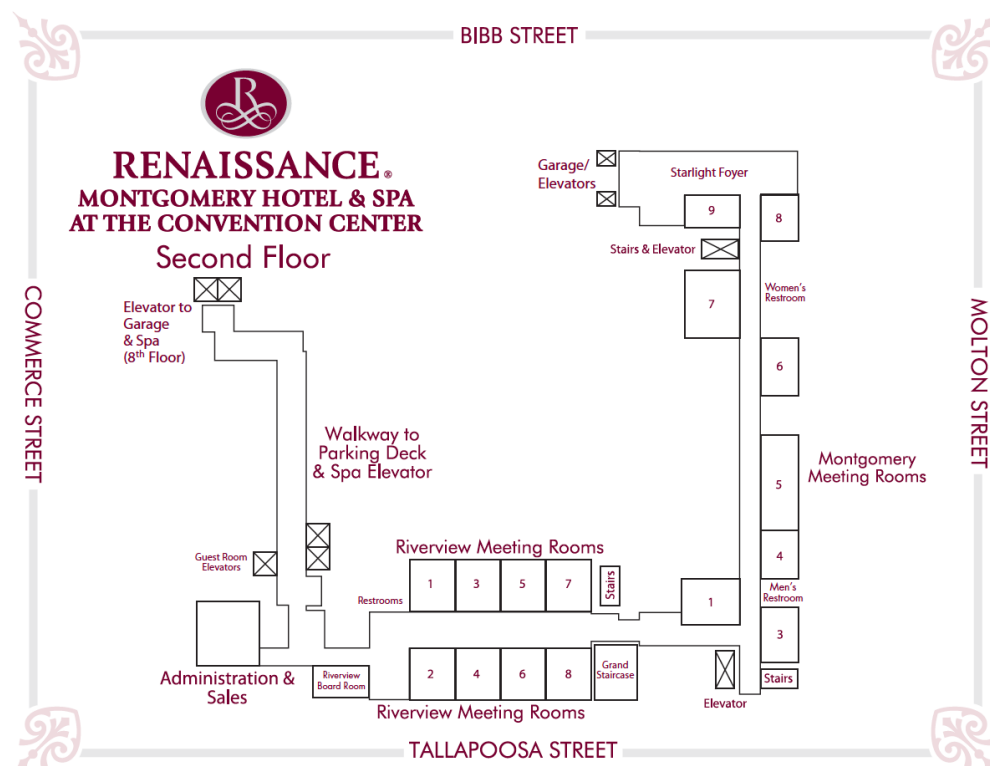
	From:	To:	Departure Time
1	Tuskegee University BTW Monument	Renaissance Montgomery Convention Center	6:30 AM
	Renaissance Montgomery Convention Center	Tuskegee University- BTW Monument	2:30 PM
2	Tuskegee University – BTW Monument	Renaissance Montgomery	4:00 PM
	Renaissance Montgomery	Tuskegee University - BTW	9:00 PM

RENAISSANCE MONTGOMERY HOTEL & SPA AT CONVENTION CENTER

First Floor



Second Floor



AgTech Hackathon@Tuskegee University

November 14 – 16, 2025

DAY 1: Kickoff & Ideation (Friday, November 14)

Time	Activity	Details
4:00 PM	Registration Opens	Check-in, name badges, refreshments
5:00 PM	Welcome & Opening Ceremony	Remarks from the Dean of CAENS
5:10 PM	Hackathon Kick-off	Review guidelines, judging criteria, and theme overview
6:00 PM	Team Pitches	Participants' introduction, and each team merges.
7:00 PM	Hacking Starts	Teams begin planning and prototyping.
8:00 PM	Coaches Check-in	Mentors rotate to provide feedback
8:30 PM	Hacking ends	Transportation from the University to the Hotel

DAY 2: Build, Learn, and Iterate (Saturday, November 15)

Time	Activity	Details
8:00 AM	Arrive to begin Hacking	Breakfast snacks available
9:00 AM	Workshop 1 – Coding workshop	Python, Machine Learning, Deep Learning, GitHub –Nick and Erin from Bayer -Virtual
10:00 AM	Hacking Continues	Teams refine their solutions
12:30 PM	Working Lunch	
1:30 PM	Hackathon Break – Tech Showcase	Displays of drones, sensors, & Ag robotics- Dr. Bernard
2:30 PM	Hackathon resumes	
6:00 PM	Dinner break	
7:00 PM	Continue Hacking	
8:00 PM	Speaker	Richard Chungong, Founder/Owner Produce Matrix and Dash In Between Creative Agency Affiliation: Kansas Black Farmers Association

DAY 3: Present Demos & Celebrate (Sunday, November 16)

Time	Activity	Details
8:00 AM	Travel to the University	Dr. Bernard assists with transportation
8:30 AM	Teams finalize deliverables	Hacking ends
9:00 AM	Final project submission	Link for submission to be provided
9:30 AM	Final showcase/ presentation begins	10mins per team + Q&A
12:00 PM	Lunch + Judging Deliberation	

SATURDAY, NOVEMBER 15, 2025

AGENDA AT A GLANCE

TIME	ACTIVITY	LOCATION
8:00 am - 9:00 pm	Ag Tech Hackathon	Tuskegee University – Campbell Hall
1:30 pm – 8:00 pm	TAPS High School Program	Tuskegee University – Henderson Hall
5:00 pm – 8:00 pm	PAWC Help Desk	Renaissance - Montgomery CC Registration Booth
5:00 pm – 8:00 pm	Exhibit Setup	Renaissance - Montgomery Concourse All
6:00 pm – 9:00 pm	PAWC General Registration	Renaissance - Montgomery CC Registration Booth



How to Obtain Your Campus Visitor's Pass

Please note that all visitors must register with the campus police department to access the campus. Scan the following QR code to obtain a visitor's pass.



Link: <https://www.tuskegee.edu/police/index.html>





High School Tomorrow's Agricultural Professionals Symposium (TAPS) November 15-16, 2025

Strengthening Our Legacy & Advancing the Land-Grant Mission: Innovations in Research, Education, & Extension"

Time	Activity	Location	Presenter(s) / Point of Contact
Saturday, November 15, 2025			
1:30 - 2:00 PM	Registration & Check-In	Henderson Hall Atrium	TAPS Planning Committee
2:00 - 3:30 PM	First in Flight: Tour & Simulation	General Daniel "Chappie" James Center	TU Aerospace Science Engineering Department
3:30 PM	Transition to Dinner		
4:00 PM	DINNER - Tompkins Hall		
5:00 PM	Transition to Henderson Hall		
5:30 PM	Welcome & Opening Remarks	Henderson Hall Auditorium	
6:00 PM	Jr. MANRRS Impromptu Speaking Contest	Henderson Hall Rm 101	George Washington Carver MANRRS Chapter
6:00 PM	STEM Design Challenge	Henderson Hall Auditorium	Auburn University Extension
7:00 PM	Youth Institute Pathways to Purpose	Henderson Hall Auditorium	Alabama Youth Institute
8:00 PM	Transition to Montgomery		
9:00 PM	Hotel Check-In**	Embassay Suites	TAPS Planning Committee
10:00 PM	Lights Out!!		TAPS Hight School Participants
Sunday, November 17, 2024			
7:00 AM	Hotel Check Out**	Embassay Suites	Chaperones
7:30 AM	Breakfast at Hotel	Embassay Suites	
8:30 AM	Transition to Henderson Hall		
9:30 AM	Icebreaker	Henderson Hall	
Concurrent Sessions			
10:00 AM	License to Grill	Henderson Hall Porch	TU Dept of Ag. And Environmental Sciences
	MEAT Matters	Henderson Hall 102	TU Animal & Meat Sciences
	Reconnecting through Nature	Henderson Hall Rm 101	TU Forestry and Natural Resources
11:00 AM	Transition to Lunch		
11:30 AM	LUNCH		
12:30 PM	Transition to Henderson Hall		
Concurrent Sessions			
1:00 PM	License to Grill	Henderson Hall Porch	TU Dept of Ag. And Environmental Sciences
	MEAT Matters	Henderson Hall 102	TU Animal & Meat Sciences
	Reconnecting through Nature	Henderson Hall Rm 101	TU Forestry and Natural Resources
2:00 PM	Transition to Session 3		
Concurrent Sessions			
2:10 PM	License to Grill	Henderson Hall Porch	TU Dept of Ag. And Environmental Sciences
	MEAT Matters	Henderson Hall 102	TU Animal & Meat Sciences
	Reconnecting through Nature	Henderson Hall Rm 101	TU Forestry and Natural Resources
3:10 PM	SNACK BREAK		
3:20 PM	Cultivating Talent, Harvesting Potential	Henderson Hall Auditorium	Together We Grow
4:10 PM	Whats the Scoop: Insights on the Collegiate Experience	Henderson Hall Auditorium	CAENS Student Ambassadors
5:00 PM	Transition to Montgomery for Awards Banquet		
6:00 PM	MANRRS Student Recognition and Award Banquet (Business Attire)	Renaissance Montgomery	George Washington Carver MANRRS Chapter

****Lodging scholarships are available for up to 75 participants who travel within a group and will include support for ONE hotel night (Saturday, November 15, 2025)**

TAPS Event Sites

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



Scan to register or visit
pawc.info/taps
 to learn more!!



Tomorrow's Agricultural Professional Symposium

Collegiate Students

Sunday, November 16, 2025

11:00 AM – 4:30 PM CST

Tuskegee University's Henderson Hall

Transportation provided between the Unveiling Statue and banquet venue.

10:30 – 11:30 AM	Brunch @ Tompkins Hall (optional)
11:00 AM	Registration & Check-In
12:00 – 12:10 PM	Welcome & Opening Remarks
12:15 – 1:05	CEO of ME: Deciding if Graduate School is the Next Move Dr. Theresa Cooper, Iowa State University
1:10 – 2:00 PM	High Containment Laboratory Skills Training Program (NLTP) A Skill that Pays the Bills \$\$\$ Ms. Ariel Worthy, Tuskegee University
2:05 – 2:55 PM	Mapping Pathways of Purpose: Exploring Agricultural Education and Global Learning Careers PhD Candidate Mia Sullivan, Penn State
3:00 – 3:15 PM	REFRESHMENT BREAK
3:15 – 3:30 PM	TRANSITION Shuttle to depart Henderson Hall at 3:15 PM CST
3:30 – 4:20 PM	Freight Farms 101: Exploring the Future of Indoor Agriculture
5:00 PM	Transition to the MANRRS Student Recognition & Awards Banquet Transportation provided between the Unveiling Statue and banquet venue
6:00 PM	MANRRS Student Recognition & Awards Banquet

SUNDAY, NOVEMBER 16, 2025**AGENDA AT A GLANCE**

TIME	ACTIVITY	LOCATION
7:30 am – 8:30 am	GSD Student Competition Check-In & Continental Breakfast	Tuskegee University- Kenny Hall
7:30 am – 11:00 am	PAWC Conference Registration	Tuskegee University – Kenny Hall
8:00 am – 1:00 pm	2025 Global Agriculture & Agribusiness Case Study Competition	Tuskegee University – Kenny Hall
8:00 am – 1:00 pm	AgTech HACKATHON	Tuskegee University – Campbell Hall
9:00 am – 4:00 pm	Tomorrow's Agricultural Professional Symposium - High School Program	Tuskegee University – Henderson Hall
9:00 am – 12:00 pm	PAWC Exhibit Setup	Renaissance Montgomery Concourse All
9:00 am – 12:00 pm	GSD Student Competition Part I	Tuskegee University Kenny Hall
10:00 am – 4:00 pm	Legacy Museum & National Memorial for Peace and Justice Tour (on your own) https://legacysites.eji.org	EJI- Montgomery
11:00 am – 4:30 pm	Tomorrow's Agricultural Professional Symposium – Collegiate	Tuskegee University – Henderson Hall
12:00 pm – 12:45 pm	GSD Student Competition Lunch	Tuskegee University Kenny Hall
1:00 pm – 4:00 pm	GSD Student Competition Part II	Tuskegee University Kenny Hall
1:00 pm – 3:00 pm	Exhibit Setup	Renaissance Montgomery Concourse ALL
1:00 pm – 3:00 pm	Tuskegee Historic Tours (on your own) Tickets can be purchased directly at https://www.tuskegeehistorictours.com	Tuskegee, AL
2:00 pm – 6:00 pm	PAWC Registration & Help Desk	Renaissance Montgomery CC Registration Booth
3:00 pm – 6:30 pm	PAWC Exhibit Hall Opens	Renaissance Montgomery Concourse All
5:00 pm - 5:30 pm	PAWC Advisory Committee Preconference Meeting	Hospitality Suite
6:30 pm – 9:00 pm	83 rd PAWC Opening Banquet	Renaissance Montgomery Exhibit Hall A
9:00 pm – 11:30 pm	PAWC Professional Meet & Greet	Hospitality Suite

MONDAY, NOVEMBER 17, 2025**AGENDA AT A GLANCE**

TIME	ACTIVITY	LOCATION
7:00 am – 12:00 pm	PAWC Registration	Convention Center Registration Booth
7:00 am – 12:00 pm	PAWC Help Desk	Convention Center Registration Booth
7:00 am – 8:00 am	Breakfast	Exhibit Hall A
8:00 am – 9:30 am	83 rd PAWC Opening Session	Exhibit Hall A
9:30 am – 10:00 am	Break & Visit with Exhibitors	Exhibit Hall Foyer
10:00 am – 12:00 pm	Concurrent Sessions I	See Below
Session 1	Everyday Plant – Powered Living	Montgomery 5
Session 2	Strategies for Writing & Submitting a Winning Grant Proposal	Montgomery 7
Session 3	Restoring Alabama's Black Belt Prairie Landscapes	Riverview 1
Session 4	Heirs Property – Ethics & Outreach	Riverview 2
Session 5	Innovations in Plant Science & Regenerative Practices	Riverview 3
Session 6	Digital Technologies & Machine Learning Applications in Agriculture & Food Science	Riverview 4
Session 7	Agroforestry Practices for Sustainable Production	Riverview 5
Session 8	Investing in Our Youth on and Off the Farm	Riverview 7
12:00 pm – 1:45 pm	L.A. Potts Success Stories Recognition	Exhibit Hall A
2:00 pm – 3:00 pm	Professional Poster Setup	Alabama B, C, & D
2:00 pm – 4:00 pm	Concurrent Sessions II	See Below
Session 9	B.A.D.D.I.E Over 40™: Midlife Women's Wellness	Montgomery 5
Session 10	From Concept to Reality: Innovations on the Ground	Montgomery 7
Session 11	Program & Policy Updates & Strategies for Navigating in Today's Economy	Riverview 1
Session 12	On The Ground Support For Farmers & Community Based Organizations	Riverview 2
Session 13	Cooperative Marketing of Livestock (Beek & Goat) in the Southeast	Riverview 3
Session 14	Research in Plant and Soil Science	Riverview 4
Session 15	Feeding a Growing World	Riverview 5
Session 16	Protecting our Environment & Land Conservation Strategies	Riverview 6
Session 17	Heirs Property: Research and Outreach	Riverview 7
2:00 pm – 5:00 pm	PAWC Registration	CC Registration Desk
3:00 pm – 6:00 pm	PAWC Help Desk	CC Registration Desk
4:00 pm – 5:30 pm	Professional Poster Reception & Visit with the Exhibitors	Alabama B,C,D
6:30 pm – 9:00 pm	PAWC Local Business Spotlight Reception aboard the Harriott II Riverboat (Pre-registration required & limited to ticketed guests)	255 Commerce Street Montgomery AL (across from the Renaissance)
9:00 pm – 11:00 pm	Student Networking Session Hosted by GWC MANRRS Chapter	Alabama B C, D
9:00 pm – 11:30 pm	Meet the PAWC Advisory Board Networking Session	Hospitality Suite

MONDAY, NOVEMBER 17, 2025

7:00 am – 12:00 pm

PAWC Registration & Help Desk – *CC Registration Booth*

7:00 am – 8:00 am

Breakfast – *Exhibit Hall A*

***Breakfast will end promptly at 8:00 am ***

8:00 am – 9:30 am

83rd PAWC Opening Session – *Exhibit Hall A*

Presiding: Lonnie Hobbs Jr., Kansas State University

Invocation: Iris Cole-Crosby, University of Arkansas Pine Bluff

Greetings & Welcome from Tuskegee University

Olga Bolden-Tiller, Tuskegee University

Greetings & Welcome from PAWC Advisory Board

John Williams, PAWC Advisory Board Chair

Part I: Strengthening Our Legacy & Cultivating a New Era in Farming with Adrian Nelson, Nelson & Sons Farm

Moderated by Olga Bolden-Tiller, Tuskegee University

Olga Bolden-Tiller, Tuskegee University

Part II: The National Policy Research Center Update

Dr. Eloris Speight, National Policy Research Center

Remarks & Recognition of Sponsors from PAWC Co-Chair

Tasha Hargrove, Tuskegee University

9:30 am – 10:00 am

Coffee Break & Visit with Exhibits – *Exhibit Hall A*

10:00 am – 12:00 pm

Concurrent Sessions I

CONCURRENT SESSION I

SESSION #	MEETING ROOM	TITLE
1	Montgomery 5	Everyday Plant-Powered Living
2	Montgomery 7	Strategies for Writing & Submitting a Winning Grant Proposal
3	Riverview 1	Restoring Alabama's Black Belt Prairie Grass Landscapes
4	Riverview 2	Heirs Property – Ethics and Outreach
5	Riverview 3	Innovations in Plant Science & Regenerative and Sustainable Practices
6	Riverview 4	Digital Technologies and Machine Learning Applications in Agriculture and Food System
7	Riverview 5	Agroforestry Practices for Sustainable Production, Resilient Environment, and Rural Food and Financial Security
8	Riverview 7	Investing in our Youth on and off the Farm

SESSION 1: EVERYDAY PLANT-POWERED LIVING**Meeting Room - MONTGOMERY 5**

Moderator: Kendy Alvarez, Mayor of Lewisburg, PA

Presenter: Fiona Lewis, LLBJ Culinary & Wellness Enterprises, LLC

Description: This engaging workshop introduces the fundamentals of plant-based nutrition and lifestyle wellness. Participants will discover how to create easy, affordable, and nourishing meals using whole, seasonal ingredients—perfect for busy schedules and budget-conscious eaters.

SESSION 2: STRATEGIES FOR WRITING & SUBMITTING A WINNING GRANT PROPOSAL**Meeting Room - MONTGOMERY 7**

Moderator: Nadine Jackson, Virginia State University

Part A: Understanding the Grant Submission Process (60 minutes)

Presenters: Denis Ebodaghe¹, Nadine Jackson², & Sheree Lesch³

¹ Virginia State University – Small Farm Outreach Program & Retired USDA -National Institute of Food and Agriculture (NIFA), ² Nadine Jackson, Virginia State University – Small Farm Outreach Program, & ³Sheree Lesch, Virginia State University – Retired USDA Grants Management

Part B: Growing Stronger Proposals: Strengthening Grant Proposals – Through Innovation & Impact (60 minutes)

Presenters: Shannon Coleman¹, Christine Strohm², and Angela Walla²

¹Alabama A & M University and ²Texas Tech University

SESSION 3: RESTORING ALABAMA'S BLACK BELT PRAIRIE LANDSCAPES**Meeting Room - RIVERVIEW 1**

Moderators: Ashunti Johnson, Tuskegee University & Harli Willis, Alabama Soil & Water Conservation Committee
Presenters:

- **Al Schotz, Botanist/Ecologist, Auburn University** - Dr. Al Schotz is responsible for the development and oversight, as well as the analysis and dissemination of information of the botanical and natural community for the Natural Heritage Program at Auburn University.
- **Claude Jenkins, Senior Biologist, Alabama Wildlife Federation** - Claude Jenkins serves as the senior biologist for Alabama Wildlife Federation, assisting landowners in protecting wildlife habitats in the Black Belt Region.
- **Christopher Joe, Landowner** - Christopher Joe is an entrepreneur and landowner in the Black Belt Prairie, with extensive knowledge in the field of natural resources. He is very familiar with the Black Belt Prairie Initiative's mission and conservation practices involved in renewing native prairies.

SESSION 4: HEIRS PROPERTY ETHICS & OUTREACH**Meeting Room - RIVERVIEW 2**

Moderator: Kara Woods, National Policy Research Center

Description: Heirs property, land transferred without the benefit of a probated will, incurs numerous challenges due to its undivided co-tenancy of ownership. Despite recent legislation, such as the Uniform Partition of Heirs Property Act (UPHPA), there are still impediments to the use of heirs property that impact personal and family wealth creation and local community development. This Panel examines questions of ethics in terms of how research is used and open to the public, as well as how heirs property practitioners, researchers, and lawyers interact with those with heirs property challenges.

SESSION 5: INNOVATIONS IN PLANT SCIENCE & REGENERATIVE AND SUSTAINABLE PRACTICES**Meeting Room - RIVERVIEW 3**

Moderator: Billie Grant, Tuskegee University

Presenters:

- **Seasonal Variations in Greenhouse Gas Fluxes from Soil in an Alley Cropping System- (20 minutes)**
 Rumita Sanwa Limbu¹, L. Karki^{1,2}, & D. Gurung³. ¹Department of Agriculture, Food and Resource Sciences, ², UMES Extension, University of Maryland Eastern Shore. ³Department of Food and Resource Economics, University of Florida
- **Effect of Shade Inside a Wiregrass Tunnel House on the Yield of Cucumbers(*Cucumis sativus* (L)) and Selected Environmental Parameters (20 minutes)**

Victor Khan^{1,2}, Billie Grant¹, George Hunter¹, Edward Sparks², Jeffrey Moore¹, J. Currington³, J. Currington III³, and Russell Johnson, Sr.²

¹Tuskegee Extension Cooperative, Tuskegee University, ²George Washington Carver Agricultural Experiment Station, Tuskegee University, ³Currington Associates.

- **Yield Response of Container-Grown Parthenocarpic and Open-Pollinated Varieties of Cucumbers (*Cucumis sativus* (L.)) – (20 minutes)**

Donald Carter III¹, McKenzie Carter¹, George Hunter¹, Justin Tate¹, Billie Grant¹, C. Moorer², S. Woodley², Edward Sparks³, Russell Johnson³, and Victor Khan^{1,3}

¹Tuskegee University Extension Service, ²Community Service Leaders, Camden and Mt. Willin, AL, ³G.W.C. Agricultural Experiment Station, Tuskegee University

- **Response of Three Varieties of Okra (*Abelmoschus esculentus* (L) Moench) Grown in Containers (20 minutes)**

K. Underwood;¹ J. Peterson², D. Barnett², P. Barnett², J. Kynard³, A. Benison⁴, George Hunter¹, Justin Tate¹, Billie Grant¹, c. Moorer², S. Woodley², Edward Sparks³, Russell Johnson³, and Victor Khan^{1,3}

¹Tuskegee University Cooperative Extension Program, ²Community Service Leaders, Camden and Mt. Willin, AL, ³G.W.C. Agricultural Experiment Station, Tuskegee University

- **Response of Five Varieties of Collards (*Brassica oleracea* (L) var. *acephala* (DC) Grown on Mulched Soil in a Wiregrass Tunnel House (20 minutes)**

George Hunter¹, Edward Sparks², Billie Grant¹, Jeffrey Moore¹, J. Currington³, J. Currington III³, R. Johnson² Sr. and Victor Khan^{1,3}

¹Tuskegee Extension Cooperative, Tuskegee University, ²George Washington Carver Agricultural Experiment Station, Tuskegee University, ³Currington Associates

Session 6: Digital Technologies and Machine Learning Applications in Agriculture and Food Systems

Meeting Room - RIVERVIEW 4

Moderator: Rui Chen, Tuskegee University

Presenters:

- **AI-Enabled Smart Agriculture: Multispectral Drones, Crop Phenotyping Robots, Field Diagnostics, and Crop Wizard Decision Support**

Gregory Bernard and Rajeev Menon, Tuskegee University

- **Agriculture 4 The Culture**

Richard Chungong, Produce Matrix and Dash In Between Creative Agency, Kansas Black Farmers Association

- **The Future of Livestock Management**

Zechariah Myrick and Steve Myrick, Livestock Technologies

- **Fused Intelligence™: Blending Human Expertise and AI to Build Culture, Brand, and Growth**

Robert Crowne, Founder, Culturefy, Inc.

**Session 7: Agroforestry Practices for Sustainable Production, Resilient Environment,
and Rural Food and Financial Security**

Meeting Room - RIVERVIEW 5

Moderator: Uma Karki, Tuskegee University

Presenters:

- **Silvopasture For Resilient Environment and Sustainable Production System**
Uma Karki, Tuskegee University
- **Comparison Of Selected Environmental Parameters Between Silvopasture and Open Pasture Systems**
Arjun Acharya, Tuskegee University
- **Methane Emission And Immunological Response Of Hair Sheep Grazing Silvopasture Vs. Open Pasture**
Sagar Acharya, Tuskegee University
- **Agroforestry And Opportunities For Additional Income Streams For Landowners**
Colmore Christian, Alabama A & M University
- **Climate-resilient alley cropping of fruits and vegetables for rural food and financial security -**
Lila Karki, University of Maryland Eastern Shore

Session 8: Investing in our Youth on and off the Farm

Meeting Room – RIVERVIEW 7

Moderator: Christopher Lemons, Eco-Paradigm & Gratitude Botanical Farms

Part A:

- **The College Choice Journey: Understanding College Decision Drivers Among High School Students Choosing Land Grant Institutions (20 minutes)**

Lonnie Hobbs, Jr., Zelia Wiley, & Madison Neal, Kansas State University

- **Leveraging Student Engagement Through Competitive Programming: A Case Study of Gamma Sigma Delta, The Honor Society of Agriculture, At Tuskegee University – (20 minutes)**

Lucy Asare-Baah, Marceline Egnin, Gregory, Bernard, Tasha Hargrove, & Olga Bolden-Tiller, Tuskegee University

Part B:

- **Youth Recidivism & Labor Support on Farms – (60 minutes)**

Panelists:

Charles Greenlea, Eco-Paradigm & G4 Farms

Treyveon Blanchard, Eco-Paradigm

Kwanz-Opp, Gangsta to Growers

Zieair Clinton – Gangsta to Growers & Eco-Paradigm

12:00 pm – 1:45 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

Barrett Vaughan, Tuskegee University

2:00 pm - 4:00 pm Concurrent Sessions II

Concurrent Sessions II

SESSION #	ROOM	TITLE
9	Montgomery 5	B.A.D.D.I.E Over 40™: Midlife Women's Wellness
10	Montgomery 7	From Concept to Realty Innovations on the Ground
11	Riverview 1	Program & Policy Updates
12	Riverview 2	On the Ground Support for Farmers & CBO's
13	Riverview 3	Cooperative Marketing of Livestock (Beef and Goat) in the Southeast
14	Riverview 4	Plant and Soil Science
15	Riverview 5	Feeding a Growing and Healthy World
16	Riverview 6	Protecting our Environment & Land Conservation Strategies
17	Riverview 7	Understanding Heir Property at the Community Level Part II

Session 9: B.A.D.D.I.E Over 40™: Midlife Women's Wellness**Meeting Room - MONTGOMERY 5****Moderator:** Kendy Alvarez, Mayor of Lewisburg, PA**Presenter:** Fiona Lewis, LLBJ Culinary & Wellness Enterprises, LLC**Description:**

This specialized session focuses on how plant-based nutrition and lifestyle habits support women's health during the menopause transition and beyond. Grounded in real life—not restrictions—this workshop offers practical tools to manage energy, mood, hormones, and digestion with ease.

Session 10: From Concept to Reality: Innovations on the Ground**Meeting Room - MONTGOMERY 7****Moderator:** Miles Robinson, Tuskegee University**Presenters:**

- **Evaluating Drone Technology Training Effectiveness for Louisiana 4-H Extension Agents: A Pre-Post Assessment Study (20 Minutes)**
Benita Komunjeru, Louisiana State University
- **Redefining Urban Ag in the 21st Century**
James Brady, Omnigro & Moringatang-Con10u2farmL3c
- **FarmersClick: Connecting Students, Farmers through Agri-Tech**
Mel Dowdell, Willie Torrey, Sandra Adams, FarmersClick International LLC

Session 11: Program & Policy Updates: Strategies for Navigating Today's Economy

Meeting Room - *RIVERVIEW 1*

Moderator: Jennifer Howard, Rural Coalition

Presenters:

- **National Policy Research Center: Research Analyst Update**
Kara Woods, National Policy Research Center
- **Farm Loan Hangups: Strategies for a Successful Interaction with USDA Farm Service Agency**
Jose Ernesto Colon Villafane, Aaron Coote, Jermel Steele & Jennifer Howard; Rural Coalition
- **The Impact of Tariff and Trade on Black and Brown Farmers**
Quinton Gray, Gray and Associates

Session 12: On the Ground Support for Farmers and Community-Based Organizations

Meeting Room - *RIVERVIEW 2*

Moderator: Barrett Vaughan, Tuskegee University

Presenters:

- **RMA's Navigator Program (60 minutes)**
LaGrand Elliott, Chimere Hampton, Tiana Scurry & David Stephens, University of Arkansas System Division of Agriculture, Southern Risk Management Education
- **Innovations for More Effective Farmer Instruction and Learning (60 minutes)**
Joseph Hugh, Institute for Social and Economic Development (ISED)

Session 13: Cooperative Marketing of Livestock (Beef and Goat) in the Southeast

Meeting Room - *RIVERVIEW 3*

Moderator: Veronica Royal Tuskegee University

Presenters:

- **Marketing Beef Calves for Truckload Sales by an Alliance of Black Farmers**
Ralph Noble, South Carolina State University & Handy Kennedy
- **Eco-Resilience from Farm to Fork: Developing a Robust Mobile Meat Processing Network for the Value-Added Small Ruminant Industry in the Southeast**
Derris Burnett, Tuskegee University

- **Understanding Safety and Regulatory Aspects of Farm-Direct Processing and Marketing of Meat Products**
Clarissa Harris, Tuskegee University
- **Goat Myology: Increasing the Value of Goat Carcasses Through Muscle Profiling and Economic Analysis**
Maxwell Mkunga, Tuskegee University
- **Challenges And Opportunities In Goat Production and Marketing For Small-Scale Farmers in the United States**
Katuwal Raj Dharma¹, L. Karki^{1,2}, & E. Escobar^{1,2}
¹ Department of Agriculture, Food, and Resource Sciences, ²UMES Extension
University of Maryland Eastern Shore

Session 14: Research In Plant & Soil Science

Meeting Room - *Riverview 4*

Moderator: Desmond Mortley, Tuskegee University

Part A:

- **Evaluating Improved Tomato Varieties for Commercial Production under Controlled Cover Structures in Belize (20 minutes)**
Maximilliano Ortega & Daniel Juan, University of Belize
- **Growing Lotus for Edible Tubers & Ornamental Flowers (20 minutes)**
Changzhen Wang, Kentucky State University
- **Consumer Segment of Low-Carbon Greenhouse Tomatoes (20 minutes)**
Varziri Azita and Rui Chen, Tuskegee University

Part B: From Systems to Sustainability: Hydroponic Vegetable Production and Profitability (45 minutes)

- **Controlled Environment (Hydroponic) Vegetable Production**
Jeremy Pickens, Auburn University
- **Cost-Benefit Analysis of Cherry Tomato Production in a Medium-Sized Greenhouse: A Case Study**
Rui Chen, Tuskegee University

Session 15: Feeding a Growing World

Meeting Room - *RIVERVIEW 5*

Moderator: Jim Embry, Sustainable Communities Network

Part A

- **Future of Food: Engaging Agriculture and Education in the Protein Transition (60 minutes)**

Jeremy Eltz & Janie Butler, The Good Food Institute

Part B

- **Reimagining Rural Food Systems: The Black Belt Marketing and Innovation Center as a Catalyst for Regional Food System Development (20 minutes)**

Kenisha Gordon and Kristin Woods, Tuskegee University

Session 16: Protecting our Environment & Land Conservation Strategies

Meeting Room - *RIVERVIEW 6*

Moderator: Tej Gautam, Tuskegee University

Presenters:

- **Assessing The Detection and Distribution Of Per- And Polyfluoroalkyl Substances in the Lower Tallapoosa Sub-Basin**

Brianna Smith & Rashidah Farid-Tilghman², Tuskegee University

- **Integrating Land Use Planning to Preserve Working Landscapes**

Sam Cook, Society of American Foresters

Session 17: Heirs Property: Research and Outreach

Meeting Room - *RIVERVIEW 7*

Moderator: Folashade Adalumo-Ntam, Tuskegee University

Presenters:

- **Holding on to the Land: Heirs' Property Education and Impact in Urban and Rural North Carolina (20 minutes)**

Biswanath Dari.¹, Kurt Smith², Noah Ranells², Andrew Branan², Wykia Macon², Barbara Worley², Marcus William², Alyssa McKim³, Clarisse Owens², Terence Wood¹

¹North Carolina Agricultural and Technical State University, Greensboro, NC, ²North Carolina State University, Raleigh, NC

- **Overview of Current Research, Outreach, and Policy: Heirs Property Policy Initiatives**

Robert Zabawa, Tuskegee University

**2:00 pm – 5:00 pm PAWC Registration –
CC Registration Booth**

**3:00 pm – 6:00 pm PAWC Help Desk -
CC Registration Booth**

**4:00 pm – 5:30 pm Professional Poster Reception & Meet the PAWC Advisory Board –
Alabama B, C, D**

**6:30 pm – 9:00 pm Local Business Spotlight Dinner Cruise aboard the Harriott II
Riverboat (pre-registration required and limited to ticketed guests) –
Harriott II Riverboat**

**7:00 pm – 11:00 pm PAWC Professional Networking Session –
Hospitality Suite**

**8:00 pm – 11:00 pm Rep Your University at the 83rd PAWC Boots on the Ground Networking Event –
Alabama B, C, D**

TUESDAY, NOVEMBER 18, 2025

AGENDA AT A GLANCE

TIME	ACTIVITY	LOCATION
7:00 am – 8:00 am	Breakfast	Exhibit Hall A
7:00 am – 12:00 pm	PAWC Registration	CC Registration Booth
8:00 am – 9:30 am	The John Brown Memorial Plenary Session	Exhibit Hall A
9:30 am – 10:00 am	Break & Visit with the Exhibitors	Exhibit Hall A
10:00 am – 12:00 pm	Concurrent Session III	See Below
Session 18	Voices in Agriculture: Innovative Programs from the Field	Montgomery 5
Session 19	Research & Outreach in Food, Nutrition, & Wellness	Riverview 1
Session 20	Adding Value on the Farm	Riverview 2
Session 21	Silvopasture in the Southeastern United States: Exploring Opportunities, Challenges, and Adoption Potential	Riverview 3
Session 22	Strategies for Growing Local Economics, Farms, and Communities	Riverview 4
Session 23	Re-imagining the 1890 & 1862 Land-Grant Systems	Riverview 5
Session 24	Organic Agriculture	Riverview 7
12:00 pm – 1:45 pm	Lunch on your own	Downtown Montgomery
12:00 pm – 1:30 pm	PAWC Advisory Board Meeting	Montgomery 7
1:00 pm – 2:00 pm	Exhibit Hall Closes & Breakdown	Exhibit Hall A
2:00 pm – 4:00 pm	Concurrent Session IV	See Below
Session 25	Animal Science	Riverview 1
Session 26	It's All About the Honey	Riverview 2
Session 27	Plant Science	Riverview 3
Session 28	Preconditioning of Beef Cattle Sustainable Management Practices	Riverview 4
Session 29	Financial Tools for Growing Your Wealth	Riverview 5
Session 30	Strategies for Growing Local Economies, Farms, & Communities	Riverview 7
4:15 pm – 5:15 pm	Special Screening	Exhibit Hall A
5:15 pm – 6:15 pm	PAWC Networking	Hospitality Suite
6:30 pm – 8:30 pm	George Washington Carver Public Service Hall of Fame Awards Banquet	Exhibit Hall A
9:00 pm – 11:30 pm	PAWC Networking Session	PAWC Hospitality Room

7:00 am – 8:00 am	Breakfast- Exhibit Hall A <i>*Breakfast will end promptly at 8:00 am*</i>
7:00 am – 12:00 pm	PAWC Registration – CC Registration Booth
8:00 am – 9:30 am	The John Brown Memorial Plenary Session – Exhibit Hall A Presiding: William Hodge, Tuskegee University Part I: Remembering & Honoring the Legacy of Mr. John Brown, Jr. Tasha Hargrove & Miles Robinson, Tuskegee University Part II: Women Leading the Way Moderator: Tasha Hargrove, Tuskegee University Panelists: - Kendy Alvarez, Mayor of Lewisburg, PA - Dara Cooper, Co-founder of the national Black Food and Justice Alliance - Zelia Wiley, Kansas State University - Laren Rose Miller, Miller3Group
9:30 am – 10:00 am	Coffee Break & Visit with the Exhibits– Exhibit Hall A
10:00 am – 12:00 pm	Concurrent Sessions III

SESSION #	ROOM	TITLE
18	Montgomery 5	Voices in Agriculture: Innovative Programs from the Field
19	Riverview 1	Research in Food, Nutrition, and Wellness
20	Riverview 2	Adding Value on the Farm
21	Riverview 3	Silvopasture in the Southeastern U.S.: Exploring Opportunities, Challenges, and Adoption Potential
22	Riverview 4	Strategies for growing Local Economies, Farms, & Communities
23	Riverview 3	Re-imagining the HBCU and Land-Grant Systems
24	Riverview 7	Organic Agriculture

Session 18: Voices in Agriculture: Innovative Programs from the Field

Meeting Room – MONTGOMERY 5

Moderator: Zelia Wiley, Kansas State University

Part A:

- **Voices in Agriculture: Digital Storytelling with CHFP Fellows (60 minutes)**

Lindsey Lunsford, Adrianna Cornie, and Keesha St.John, Tuskegee University

Part B:

- **Terra Madre Report Back: Black Farmers, Scholars & Students Connect in Italy! (30 minutes)**

Jim Embry, Sustainable Communities Network/Slow Food UISA

- **The Moses Project (30 minutes)**

Curtis Pitts, The Moses Project

Session 19: Research & Outreach in Food, Nutrition, & Wellness

Meeting Room – RIVERVIEW 1

Moderator: Norma Dawkins, Tuskegee University

Presenters:

- **Racial Disparities in Obstructive Sleep Apnea (OSA): The Role of Nutrition**

John Onuh, Tuskegee University & Ellis Morrow, Texas Southern University

- **The Journey: Individualized And Community Raised-Bed Gardening: An Innovative Approach to Access to Fresh Fruits and Vegetables in Alabama Black Belt Counties**

Norma L. Dawkins and Isabella Jiminez. Department of Food and Nutritional Sciences, Tuskegee University

- **Blueberries As A Dietary Intervention For Blood Pressure Control: Mechanistic Of A High-Fat Diet-Induced Obesity Model**

¹David Opiri, ²Josy Onuoha, ²Dr. Chasity Bradford, ² John Onuh, ¹Dept. of Human Sciences, University of Arkansas at Pine Bluff, ² Dept. of Biology, Tuskegee University

- **“This Beautiful Southland of Ours”: George Washington Carver’s Rural Health Agenda in the Alabama Black Belt**

Camille Goldmon, University of North Carolina- Chapel Hill

Session 20: Value-Added on the Farm

Meeting Room – RIVERVIEW 2

Moderator: Derris Barnett, Tuskegee University

Presenters:

- **What's on the Plate? Consumer Voices on Beef Choices in Underserved Communities**
Imani Murphy and Clarissa Harris, Tuskegee University
- **Pasture Poultry & Backyard Processing: Practical Approaches for Small-Scale Farmers**
Alicia Jordan, Triple J Farm/Boots on the Farm Consulting LLC/Alabama State Association of Cooperatives
- **What is aquaculture?: Strategies for Growing Local Farms in the Black Belt**
Christopher Davis, USDA – Economic Research Service

**Session 21: Silvopasture in the Southeastern U.S.:
Exploring Opportunities, Challenges, and Adoption Potential**

Meeting Room – RIVERVIEW 3

Moderator: George Hunter, Tuskegee University

Presenters: Tej Gautam¹, Uma Karki¹, Josha Idassi², Colmore Christian³, and Lila Karki⁴

¹Tuskegee University, ²South Carolina State University, University, ³Alabama A & M University, and ⁴University of Maryland Eastern Shore

Session 22: Strategies for Growing Local Economies, Farms, and Communities

Meeting Room - RIVERVIEW 4

Moderator: Christopher Lemons, Eco-Paradigm

Presenters:

- **Faith and Community-Based Organization Leading the Way to a Healthier, More Resilient Community (45 minutes)**
Bobby Wilson, Metro Atlanta Urban Farm
- **Perceptions of Black Producers Toward Their Role in United States Agriculture: A Q Methodology Study**
Courtney Brown¹ and Tania Peebles²
¹Oklahoma State University and ²Tuskegee University

- **The National Women in Agriculture Association:
Evaluating the Contributions of US Chapter Leaders in Community Empowerment**
Liliane Poincon, Anita Anatharam, Marilyn Swisher, Kevin Ash, & Jorge Ruiz-Menjivar University of Florida
- **Making Visible Subjugated Knowledge in Co-op Theory and Practice**
Thomas Gray, USDA Rural Business-Cooperative Service

Session 23: Re-imagining the HBCU and Land-Grant Systems

Meeting Room - RIVERVIEW 5

Moderator: Robert Zabawa, Tuskegee University

Presenters:

- **A Comparative Analysis of the Land-Grant System through a Structured Literature Review of the Morrill Acts of 1862 and 1890**
Aaron Golson, North Carolina A & T State University
- **Reimagining Ecological Education at HBCUs: Implementing the Four-Dimensional Ecology Education Framework**
Rashidah Farid-Tilghman¹ and Maheteme Gebremedhin²
¹Tuskegee University and ²Kentucky State University
- **Intersection of Solidarity Economics and Land Grant Institutions: How can land grant institutions participate in the solidarity economy of their communities?**
Reylan Cook & Dania Davy, A Safety Net for the Future of Village Farming
- **The Future of Farming: Reimagining Agriculture as a Modern Trade**
BluePrint University

Session 24: Organic Agriculture

Meeting Room – RIVERVIEW 7

Moderator: Kokoasse Kpombrekou-A, Tuskegee University

Presenters:

- **Risk Management and Resource Utilization for Transitioning Organic Farmers in the Southeastern United States**
Juan Carlos Rodriguez, Florida Organic Growers

- **Morphological Features of Mixed Cover Crops Biochar Produced at Three Pyrolysis Temperatures**

David Baah, Muhammad Irfan, Kokoasse Kpombrekou-A, Tuskegee University

- **Potential Effects of Biochar on Okra Yields and Nitrate Leaching in an Organic Fertilizer-Amended Soil**

Muhammad Irfan¹, Madlyn Milledge¹, Kokoasse Kpombrekou-A¹, & Franklin Quarcoo¹

¹College of Agriculture, Environment and Nutrition Sciences, Tuskegee University,

- **Organic Okra Production at Tuskegee University Organic Agriculture Institute Research Farm: Sustainable Practices for Community Food Security**

Ashmita Nath¹, Kokoasse Kpombrekou-A¹, and Franklin Quarcoo¹

¹ College of Agriculture, Environment and Nutrition Sciences, Tuskegee University

12:00 pm – 1:45 pm

Lunch on your own

12:00 pm – 1:30 pm

PAWC Advisory Board Lunch Meeting – **Ballroom B, C, D**

1:00 pm – 2:00 pm

Exhibit Hall Closes & Breakdown – **Concourse All**

2:00 pm – 4:00 pm

Concurrent Session IV

SESSION #	MEETIG ROOM	TITLE
25	Riverview 1	Research in Animal Science
26	Riverview 2	It's About the Honey
27	Riverview 3	Plant Science
28	Riverview 4	Preconditioning of Beef cattle- sustainable management practices
29	Riverview 5	Financial Tools for Growing Your Wealth

Session 25: Research in Animal Science

Meeting Room – RIVERVIEW 1

Moderator: Henry English, University of Arkansas at Pine Bluff

Presenters:

- **Evaluate the Diagnostic Accuracy of a Laser Methane Detector Against the Green Feed for On-farm Measurements of Greenhouse Gas Emissions from Meat Goats**

Hossam Ismael, Santosh Chaudhary, Mariline Hilaire, Vivian Kanyi, Heba Abdol, & Byeng Min, Tuskegee University

- **Post-Thaw Viability Assessment Of Buck Sperm Cryopreserved With Different Semen Extenders**

Raheem Davian Murray^{1*}, Olivia Chika Greenwood¹, Mustafa Hitit¹, Mustafa Bodu^{1,2}, Zeynep Erdogan¹, Muhammet Rasit Ugur³, Andres Pech Cervantes¹, Erdogan Memili¹

¹Cooperative Agricultural Research Center, College of Agriculture, Food, and Natural Resources, Prairie View A&M University, Prairie View, TX; ²Department of Reproduction and Artificial Insemination, Faculty of Veterinary Medicine, Selcuk University, Konya, Türkiye; ³Department of Reproduction and Artificial Insemination, Faculty of Veterinary Medicine, Selcuk University, Konya, Türkiye; IVF Michigan & Ohio Fertility Centers, Bloomfield Hills, MI

- **Implementing a Silvopastoral System (SPS) Model at the University of Belize Central Farm Campus: Towards Sustainable and Profitable Beef Cattle Production**
Daniel Juan & Maximillino Oretga, University of Belize
- **Enhancing Profits: Preconditioning Benefits for Small and Resource-Limited Cattle Producers**
Parshuram Rimal, B. Budha, & N. Gurung, Tuskegee University
- **Reproductive Performance of Straightbred Dexter And Crossbred Mashona X Dexter Heifers**
Emily Hayes¹, Janani Oates¹, Cevat Tartan¹, Heather Riggs¹, & Richard Browning, Jr¹, ¹Tennessee State University
- **Effect of Selenium Fertilization on Carotenoid and Glucosinolate Accumulation in Two Cress Varieties Grown Hydroponically**
A.O. Adeyeye¹, T. Nzaramyimana¹, & C. Teets¹, Kentucky State University,

Session 26: It's All About the Honey

Meeting Room – RIVERVIEW 2

Moderator: Kandi Williams, University of Arkansas at Pine Bluff

Presenters:

- **Beekeeping & Fortifying Pollinators 101**
Jim Embry, Sustainable Communities Network & Atrus Ballew Farm
- **Tuskegee Honey: Strategies for Success**
Jackie McArthur, Tuskegee Honey

Session 27: Plant Science

Meeting Room – RIVERVIEW 3

Moderator: Victor Khan, Tuskegee University

Presenters:

- **Integrated Farming for Sustainable Catfish and Leafy Green Production in Aquaponics Systems: Implications for Small-Scale Producers**

Kamal Gosh¹, Tremar Ivey,¹ Ander Compere¹, Sebastian Moreno¹ Isis Williams¹, Lenoard Kibet¹, Jovan Jones¹, Heaven Fontenet¹, and Jasmine Price¹

¹Department of Agriculture and Natural Resources, Langston University.

- **Sunn Hemp: Harvest Management and Genotype Effects on Sunn Hemp (*Crotalaria juncea* L.) Forage Characteristics as Cover Crop and Its Nutritive Values**
Min Byeng Ryel, Hilaire Marline, Ismael Hossaam, Chaudhary Santosh, Kanyi Vivian, Abdo Heba, & Gurung Nar, Tuskegee University
- **Efficacy of Biochar in Mitigating Soil Salinity and Enhancing Sunflower Production: Effects on Soil Physicochemical Properties, Ion Dynamics, and Crop Yield**
Muhammad Irfan, Gamal El Afandi, Santosh Sapkota, Amira Moustafa, and Salem Ibrahim, Tuskegee University
- **Yield of “Alamo” Turnips (*Brassica rapa* (L) var. (DC) Metzg. *Utilis*) Planted at Two Intra Row Spacing with One or Two Plants/Hill in Mulched Soil in a Wiregrass Tunnel House**
Justin Tate, Billie Grant, Tameka King, Edward Sparks, Jeffrey Moore, **Tuskegee University**, J. Currington, J. Currington II, **Currington Associates**, R. Johnson, Sr. and Victor Khan, **Tuskegee University**

Session 28: Preconditioning of Beef Cattle- Sustainable Management Practices

Meeting Room - RIVERVIEW 4

Moderator: Russell Johnson, Tuskegee University

Presenters:

- **Preconditioning Nutrition Practices**
Nar Kaji Gurung, Tuskegee University
- **Economic Benefits of Preconditioning for Small and Resource-Limited Cattle Producers**
Rimal Parshuram, Tuskegee University
- **Impact of Controlled Breeding on Management and Marketing of Pre-conditioned Calves**
Ralph Noble, South Carolina State University
- **Forage Systems for Backgrounding Beef Steers in the Southeastern USA**
Jose Dubeux, Jr., University of Florida
Leanne Dillard, Auburn University
- **Farmer’s Perspectives on Preconditioning of Beef Calves**
Michel Fullenwider, Beef Producer

Session 29: Financial Tools for Growing Your Wealth

Meeting Room - RIVERVIEW 5

Moderator: Gwen Harris, Tuskegee University

Presenters:

- **Land & Liberation Through Valuation: How ROV Protects Legacy and Black Wealth in the \$106 Trillion Transfer**
Thaddaus Dawson, Jr., 10KBA Inc. & 10,000 Appraisers Foundation (10KAF)
- **Bitcoin and Agriculture: Growing Food, Energy, and Wealth for the Next Generation**
Rich Chungong, Dash In Between & Produce Matrix

4:15 pm – 5:30 pm

Growing the Movement: Hip Hop Farmer
Screening of the Pilot

Episode & Conversation by Pickinggreens Production + We Can Dig It
& Refreshment Break – *Exhibit Hall A*



5:30 pm – 6:15 pm

PAWC Networking – *Hospitality Suite*

6:30 pm – 8:30 pm

**George Washington Carver Public Service Hall of Fame
Awards Dinner – *Exhibit Hall A***

Presiding

Ron Howell, Virginia State University

Invocation

Ron Smith, Tuskegee University

Dinner

**Presentation of the George Washington Carver Award I and Award II
Robert Zabawa, Tuskegee University**

Carver I:

**M. Ray McKinnie
North Carolina A&T University**

Carver II:

**Jennie Stephens
Center for Heirs Property, Charleston, SC**

Closing Comments

Olga Bolden-Tiller, Tuskegee University

PROFESSIONAL POSTERS

1. **Analysis of a Community Garden on a University Campus: Outcomes and Participant Benefits**
Fiona Zhang, Flintridge, Sacred Heart Academy, Jon Phillips, Cal Poly Pomona, & Beth McCoy, Azusa Pacific University
2. **Regulatory Environment, Market Structure, and Agricultural Insurance Development: Evidence from a Panel Threshold Regression Model**
Rui Chen, Tuskegee University & Shisen Li, Shijazhuang Institute of Railway Technology, China
3. **Beyond the Classroom: The Next Generation of Agribusiness Leaders**
Tasha Hargrove, Antonio Hutchins, Madison Eiland, Michael Hill, Austin Stokes, Cameron Dervin, Deinkepiribo Harry, Isabella Gates, Kirsten Hayes, Olivia Hutchinson, & William Johnson, Tuskegee University
4. **Bridging the Digital Divide: FVSU Cooperative Extension's Pathways to Building a Digitally Resilient Georgia**
Yolanda McFerrin and Terrence Wolfork, Fort Valley State University
5. **Partnerships for Student Success: A Comparative Analysis of MANRRS Impact Across 1862 and 1890 Land Grant Institutions**
Zelia Wiley, Lonnie Hobbs, Jr., Charles Carpenter III, & Selena Gilyot, Kansas State University

GAMMA SIGMA DELTA STUDENT COMPETITION

1. **PLANT-BASED MEAT FORMULATIONS BASED ON LENTIL, WHEAT GLUTEN, SOY, AND PEA PROTEINS: RAW MATERIAL FUNCTIONAL PROPERTIES AND END PRODUCT QUALITY**
BOWE, CAYDEN D¹, S. Sheikhezadeh² and S. Alavi²
¹Dept. of Food Science and Nutritional Sciences, Tuskegee University, Tuskegee, AL 36088. ²Dept. of Grain Science & Industry, Kansas State University, Manhattan, KS 66506
2. **ONION PEEL EXTRACT REDUCES INTESTINAL SALMONELLA ENTERITIDIS COLONIZATION IN BROILER CHICKS**
IWUOZO, ODINAKA C¹, H. Kang², and Y. Fasina¹. ¹Dept. of Animal Sciences, North Carolina A&T State University, Greensboro, NC 27411, ²Food and Nutritional Sciences, Department of Family and Consumer Sciences, North Carolina Agricultural and Technical State University, Greensboro, NC 27411
3. **ANALYSIS OF LAND USE AND LAND COVER DYNAMICS THROUGH REMOTE SENSING IN THE BLACK BELT REGION OF ALABAMA, ALONG WITH RAINFALL VARIABILITY**
IBRAHIM. SALEM¹, G. El Afandi, A. Moustafa, M. Irfan, R. Algendy, and S. Sapkota. Dept. of Agriculture and Environment Sciences, Tuskegee University, AL 36088, USA.
4. **WEATHER-DRIVEN VARIABILITY IN PESTICIDE DRIFT DURING AERIAL APPLICATIONS IN MACON COUNTY, ALABAMA**
MOUSTAFA, AMIRA, G. El Afandi, M. Ifan, and S. Ibrahim
Dept. of Agriculture and Environmental Sciences, Tuskegee University, AL 36088, USA.
5. **ASSESSING LEARNING OUTCOMES OF HYDROPONICS INSTRUCTION AMONG UNDERGRADUATE STUDENTS PARTICIPATING IN A REEUSPONSORED INTERNSHIP**
CARPENTER, CHARLES III¹, Z. Wiley², J. Cowan³, and L. Hobbs, Jr.⁴. ¹Kansas State University, ²Student and Staff Success Office, ³Entomology Department, ⁴Horticulture Natural Resources Department, ⁴Agricultural Economics Department, College of Agriculture, Kansas State University, Manhattan, KS 66502
6. **ADVANCING DATA LITERACY THROUGH IMAGE CLASSIFICATION: A CNN CASE STUDY ON BUTTERFLIES**
CHI, JENNIFER, and C. Nindo. Dept. of Agriculture, Food and Resource Sciences, University of Maryland Eastern Shore, Princess Anne, MD 21853
7. **ROLES OF COLD PLASMA TREATMENT ON THE FUNCTIONAL PROPERTIES OF PLANT-BASED PROTEINS**
AISHAT ADEJOH O, and John Onuh. Dept. of Food and Nutritional Sciences, Tuskegee University, 1200 W Montgomery Rd, Tuskegee, Alabama 36088.
8. **EVALUATING FERMENTATION OUTCOMES IN NON-TRADITIONAL PRODUCE: SAFE PRACTICES FOR POST-HARVEST LOSS REDUCTION**
KOIRALA MOHAK¹, and S. Acharya². ¹Cooperative Research, Lincoln University, Missouri, 820 Chestnut Street, Jefferson City, MO 65101, ²Faculty Advisor, Cooperative Research, Lincoln University, Missouri, 820 Chestnut Street, Jefferson City, MO 65101
9. **MICROALGAE - WHAT IS IT GOOD FOR? AN INTEGRATIVE ANALYSIS OF NUTRIENT REMOVAL AND BIOMASS ACCUMULATION IN ALGAL TURF SYSTEMS FOR AQUACULTURE PRACTICES**
MCKINLEY, KAYLA, and G. Ozbay. College of Agriculture, Science & Technology, Delaware State University, Dover, DE 19901
10. **EXPLOITING GENOMIC VARIABILITY IN LISTERIA FOR THE DEVELOPMENT OF MOLECULAR DIAGNOSTIC MARKERS**
OSEI, VIONA, E., Kuufire, R. Nyarku, K. Bentum, T. James, A. Elrefaey, T. Samuel, and W. Abebe. Center for Food Animal Health, Food Safety and Defense, Dept. of Pathobiology, College of Veterinary Medicine, Tuskegee University, Tuskegee, AL, 36088.

11. **SENSITIVITY OF DIMETHOMORPH, ETHABOXAM, MANDIPROPAMID, AND OXATHIPIPROLIN FUNGICIDES TO PHYTOPHTHORA CAPSICI IN MISSISSIPPI**
POPOOLA, ABDUL-LATEEF¹, Md. Aktaruzzaman² and Emran Ali¹. ¹Dept. of Agronomy and Biotech, Alcorn State University, MS, 39096; ²Dept. of Plant Pathology, University of Georgia, GA, 30602.
12. **FOOD SECURITY AND COMMUNITY JUSTICE: EXPLORING THE LINKS BETWEEN CRIMINAL JUSTICE SYSTEMS AND EQUITABLE ACCESS TO FOOD**
JOHNSON, DESTNEY, and S. C. Hatter.
Dept. of Criminal Justice, Grambling State University, Grambling, LA 71245
13. **APIGENINIDIN CHLORIDE (3-DA) DISRUPTS SPHINGOLIPID SYNTHESIS OF TOXOPLASMA GONDII**
MOON, MIYA J.¹, and Daniel A. Abugri².
¹Dept. of Biological Sciences, Alabama State University, Montgomery, AL 36104
14. **PROTECTING SMALL FARMS AND BUSINESSES: EVIDENCE ON INSURANCE ADEQUACY AND PREMIUM BURDEN FROM HURRICANE-AFFECTED COMMUNITIES**
ODEYOMI, OMOWUNMI, and G. Ejimakor.
Dept. of Agribusiness & Applied Economics, North Carolina A&T State University
15. **SOCIO-DEMOGRAPHIC PREDICTORS IN PARTICIPATION OF HEIRS' PROPERTY EDUCATION**
KHADKA, RAKSHA¹, L. Karki^{1, 2}, P. Bhandari², and N. Cook².
¹Dept. of Agriculture, Food and Resource Sciences, ²UMES Extension, University of Maryland Eastern Shore
16. **THE IMPACT OF BREXIT ON U.S.-U.K. AGRICULTURAL TRADE RELATIONS**
GIBBS, KENDALL D., JR., and D. Adu.
College of Agriculture and Applied Sciences, Alcorn State University, Lorman, MS 39096
17. **MAPPING FOOD ACCESS IN EAST BATON ROUGE PARISH: A NETWORK-BASED GIS ASSESSMENT OF GROCERY AND HEALTHY CORNER STORES PROXIMITY**
GYAN, DORCAS TWUMWAA¹, E. Dadzie², and K. Annan².
^{1,2}Dept. of Urban Forestry, Environment and Natural Resources, Southern University and A&M College, Baton Rouge, LA 70813
18. **FRUIT TREES AS TOOLS FOR ENVIRONMENTAL JUSTICE: INTEGRATING FRUIT TREE ACCESS AND URBAN FORESTRY IN ZACHARY PARISH, LOUISIANA**
ANNAN, KINGSFORD KOBINA¹, and A. Annan².
¹Dept. of Urban Forestry, Envi. and Natural Resources, Southern University and A&M College, Baton Rouge, LA, USA
²Dept. of Basic Education, University of Cape Coast, Ghana
19. **INVESTIGATING THE RELATIONSHIP BETWEEN METEOROLOGICAL CONDITIONS AND PM2.5 CONCENTRATIONS ACROSS DIFFERENT COUNTIES IN ALABAMA**
SAPKOTA, SANTOSH, Gamal El Afandi, Chastity Bradford, Muhammad Irfan, Salem Ibrahim, Amira Moustafa, and Reda Algendy.
College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088, USA². College of Arts and Sciences, Tuskegee University, Tuskegee, AL 36088, USA
20. **OPTIMIZING NITROGEN, PHOSPHORUS, AND POTASSIUM MACRONUTRIENTS TO ENHANCE QUINOA GROWTH, PHYSIOLOGY, AND YIELD IN THE MIDWEST**
NESA, NUR U., T. J. Fatema, N. Grato, P. Safiullah, X. Zhang, and A. Addissu.
Dept. of Agroecology and Sustainable Agriculture, Lincoln University, Jefferson City, MO 65101

21. **DESIGN AND CHARACTERIZATION OF COTTONSEED OIL–CARNAUBA WAX–PECTIN EMULSION GELS AS THERMALLY STABLE FAT REPLACERS IN PROCESSED RED MEAT: FUNCTIONAL INSIGHTS**
TALUKDER, SUDIPTA, L. Alegro, and R. Silva.
Dept. of Family and Consumer Science, North Carolina A&T State University, Greensboro, NC 27411
22. **STRENGTHENING THE AGRICULTURAL WORKFORCE PIPELINE: PROFESSIONAL GROWTH AND NEAR-PEER MENTORSHIP THROUGH 4-H SUMMER INTERNSHIPS**
GARNER, A. SOLOMON, L. D. Petrie, and J. C. Ricketts.
Dept. of Agricultural Business and Education, Tennessee State University, Nashville, TN
23. **EVALUATION OF MICROBIOLOGICAL LOAD, pH, AND STORAGE STABILITY IN HIBISCUS–BEETROOT BEVERAGES CONTAINING TRADITIONAL WEST AFRICAN SPICES**
AMENYENU, EMILY, Q. Abbah, and B. Min.
Dept. of Food and Nutritional Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088
24. **THE EFFECT OF ACCESS TO BROADBAND ON RURAL DEVELOPMENT EFFORTS IN ALABAMA’S BLACKBELT**
CORNIE, ADRIANA, and R. Shange.
Dept. of Agricultural and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088
25. **QUANTIFYING FOOD CROP TRANSITIONS UNDER URBANIZATION USING REMOTE SENSING AND GIS: EVIDENCE FROM EAST BATON ROUGE PARISH, LOUISIANA**
DADZIE, ESI, D., T. Gyan, and K. K. Annan.
Dept. of Urban Forestry, Environment and Natural Resources, Southern University and A&M College, Baton Rouge, LA 70807
26. **EFFECT OF DIFFERENT PLASTIC MULCH COLORS ON THE GROWTH, YIELD, AND VITAMIN C CONTENT OF HABANERO PEPPER**
KAMBA, J., and T. Nzaramyimana.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601
27. **IMPACT OF MAGNESIUM FERTILIZATION ON MINERAL NUTRIENT ACCUMULATION IN HYDROPONICALLY GROWN CRESS**
KABANDA, R., and T. Nzaramyimana, Ph.D.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601
28. **MODULATION OF PHENOLIC ACCUMULATION AND BIOMASS YIELD IN WATERCRESS AND UPLAND CRESS UNDER SELENIUM FERTILIZATION**
RAGLAND, N., ADEYEYE, A., and T. Nzaramyimana.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601
29. **INFLUENCE OF SELENIUM FERTILIZATION ON CHLOROPHYLL PIGMENTS AND BIOMASS PRODUCTION IN WATERCRESS AND UPLAND CRESS**
SARPONG, K., and T. Nzaramyimana, Ph.D.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601
30. **ALKALINE pH MITIGATES AMMONIA TOXICITY IN CHANNEL CATFISH BY ENHANCING ION REGULATION, ENERGY BALANCE, AND Rh GLYCOPROTEINS EXPRESSION**
FAHIM, FATIN I., T. Bhattacharjee, K. Adhikari, S. Bhattarai, and A. Sinha.
Dept. of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601

31. **PRE-EXPOSURE TO LOW AMMONIA ENHANCES PHYSIOLOGICAL PERFORMANCE AND GENE EXPRESSION IN CHANNEL CATFISH AGAINST HIGH AMMONIA TOXICITY**
ADHIKARI, KASHYAP, T. Bhattacharjee, F. I. Fahim, N. Kafle, S. Bhattarai, R. Lochmann, and A. Sinha.
Dept. of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601

32. **IRON STRESS MEMORY: PRE-EXPOSURE BOOSTS TOLERANCE AND PERFORMANCE IN JUVENILE CATFISH UNDER HIGH IRON TOXIC STRESS**
KAFLE, NISHAN, K. Adhikari, T. Bhattacharjee, F. I. Fahim, S. Bhattarai, S. Jahanbin, R. Lochmann, and A. Sinha.
Dept. of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601

33. **FUNCTIONALIZING CHITOSAN NANOPARTICLES AGAINST *A. HYDROPHILA* IN CATFISH: A POTENTIAL ANTIBIOTIC ALTERNATIVE**
REED, SONYA¹, Z. McGowan², Q. Jiang⁴, F. Watanabe⁵, and G. Ramena¹.
¹Dept. of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, AR
²Dept. of Agriculture, University of Arkansas at Pine Bluff, Pine Bluff, AR
³Dept. of Computer Science, University of Arkansas at Pine Bluff, Pine Bluff, AR
⁴Dept. of Chemistry and Physics, University of Arkansas at Pine Bluff, Pine Bluff, AR
⁵Center for Integrative Nanotechnology Sciences, University of Arkansas at Little Rock, Little Rock, AR

34. **PEPTIDOGLYCAN HYDROLASES (PGHS) AS ALTERNATIVE ANTIMICROBIALS FOR *STREPTOCOCCUS INIAE* INFECTIONS IN FISH**
MCGOWAN, ZACHARIAH, K. Bohara, A. Segree, and G. Ramena.
Dept. of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601

35. **QUANTUM-LEVEL GREEN LIGHT-EMITTING DEVICES: A NOVEL APPROACH TO ENHANCING FISH HEALTH**
MCGOWAN, ZOE¹, C. Maoding¹, Q. Jiang², and G. Ramena¹.
¹Dept. of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601
²Dept. of Chemistry and Physics, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601

36. **IMPACT OF COOPERATIVE EXTENSION IN THE BLACK BELT**
ST. JOHN, KEESHA Q.¹, and R. Shange².
¹Dept. of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088
²Cooperative Extension, Carver Integrative Sustainability Center, Tuskegee University, Tuskegee, AL 36088

37. **EVALUATION OF THE EFFECTS OF PULSED LIGHT ON THE PHYSICAL PROPERTIES OF PECAN NUTS**
AWAOGU, JESSICA C., H. L. Degala, R. Gyawali, and A. K. Mahapatra.
Food Engineering Laboratory, College of Agriculture, Family Sciences, and Technology, Fort Valley State University, Fort Valley, GA 31030

38. **REDUCTION OF *ESCHERICHIA COLI* ON SPINACH USING PULSED UV TECHNOLOGY**
MANNE, SRI SANDHYA, H. L. Degala, R. Gyawali, and A. K. Mahapatra.
Food Engineering Laboratory, College of Agriculture, Family Sciences, and Technology, Fort Valley State University, Fort Valley, GA 31030

39. **EFFECTS OF POST-HATCH THERMAL CONDITIONING ON THE GROWTH PERFORMANCE AND CARCASS YIELD OF BROILERS RAISED ON PASTURE**
GHIMIRE, UNISHMA, and J. Timmons.
Dept. of Agriculture, Food and Resource Sciences, University of Maryland Eastern Shore, Princess Anne, MD 21853

40. **THE IMPACT OF BREXIT ON U.S.-U.K. AGRICULTURAL TRADE RELATIONS**
GIBBS, KENDALL D., JR., and D. T. Adu.
College of Agriculture and Applied Sciences, Alcorn State University, Lorman, MS 39096

41. **AGRIVOLTAICS AND SMALL FARM RESILIENCE: DIVERSIFICATION AND RISK MANAGEMENT IN MODERN AGRICULTURE**
KENNEDY, JENNIFER M., and G. Ejimakor.
Dept. of Agribusiness, Applied Economics and Agriscience Education, North Carolina Agricultural and Technical State University, Greensboro, NC 27411
42. **PANEL ANALYSIS OF TEFAP FOOD DISTRIBUTION IN NORTH CAROLINA**
MUKUNZI, ALICE¹, K. Jefferson-Moore¹, and J. Ng'ombe².
¹Dept. of Agribusiness, Applied Economics, and Agriscience Education, North Carolina Agricultural and Technical State University, Greensboro, NC 27411
²Dept. of Economics, North Carolina Agricultural and Technical State University, Greensboro, NC 27411
43. **EFFECT OF SALT AND RED PEPPER ON THE WATER ACTIVITY OF JERKY PREPARED FROM ASIAN CARP MEAT**
ALAGBE, LYDIA, O. Ayoola, and C. Wang.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601
44. **EFFECT OF BLUEBERRY AND COLLARD GREEN VEGETABLES ON OBESITY**
YEBOAH, JACQUELINE, C. Bradford, and N. Dawkins.
Dept. of Food and Nutritional Sciences, Tuskegee University, Tuskegee, AL 36088
45. **YIELD RESPONSES OF CORN TO SOIL AMENDMENT WITH BIOCHAR**
ADEWUMI, OLANIYI, and M. Guo.
Dept. of Agriculture and Natural Resources, Delaware State University, Dover, DE 19901
46. **NANO-ENHANCED ESSENTIAL OILS AS RUMEN MODULATORS: IMPLICATIONS FOR FERMENTATION EFFICIENCY, ENERGY METABOLISM, AND DAIRY CATTLE PERFORMANCE**
ODERINWALE, OLATUNDE A., O. O. Adelusi, J. O. Alabi, J. M. Enikuomihin, C. C. Anotaenwere, M. Wuaku, Y. Shaw, J. Adebayo, K. A. Ike, A. E. Kholif, and U. Y. Anele.
Dept. of Animal Sciences, North Carolina A&T State University, Greensboro, NC 27411
47. **A COMPARATIVE ANALYSIS OF LIQUID ALGAE FERTILIZERS TO COMMERCIAL AND ORGANIC FERTILIZERS**
WRIGHT, V., G. Ozbay, M. Guo, and O. Adewumi.
Dept. of Agriculture and Natural Resources, College of Agriculture, Science and Technology, Delaware State University, Dover, DE 19901
48. **MEASURING THE BASELINE SOIL GREENHOUSE GAS DYNAMICS IN FRUIT TREE-BASED ALLEY CROPPING SYSTEMS**
LIMBU SANWA, RUMITA¹, L. Karki¹, and D. Gurung².
¹Dept. of Agriculture, Food and Resource Sciences, University of Maryland Eastern Shore, Princess Anne, MD 21853
²Dept. of Food and Resource Economics, University of Florida, Gainesville, FL 32611
49. **FIRE IN THE ORCHARD: FIRST REPORT OF ISOLATION, CHARACTERIZATION, AND STREPTOMYCIN-RESISTANT *ERWINIA AMYLOVORA* CAUSING FIRE BLIGHT ON PEAR IN MISSISSIPPI**
POPOOLA, ABDUL-LATEEF, and E. Ali.
Dept. of Agronomy and Biotechnology, Alcorn State University, Lorman, MS 39096
50. **EVALUATION OF PUBLIC HEALTH INITIATIVES FOR SKIN CANCER PREVENTION IN KENTUCKY**
AKINOLA, EBENEZER A., S. O. Fakolade, G. Besona, and F. N. Bebe.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601

51. **PRELIMINARY ASSESSMENT OF ELECTROMAGNETIC AND RADIOFREQUENCY EXPOSURE ON HONEYBEE ACTIVITY**
CHAUDHARY, SANTOSH¹, I. Min², E. Kim², D. Ha², C. Min³, HILAIRE, MARILINE¹, H. Ismael¹, V. Kanyi¹, H. Abdo¹, and B. R. Min¹.
¹Dept. of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088
²Loveless Academic Magnet Program High School, Montgomery, AL 36111
³Auburn High School, Auburn, AL 36830
52. **IDENTIFICATION OF POTENTIAL TARGET GENES FROM SMOOTH CORDGRASS (*SPOROBOLUS ALTERNIFLORUS*) TO CONFER SALINITY STRESS TOLERANCE IN COMMON BEAN (*PHASEOLUS VULGARIS* L.)**
WILLIAMS, KRYSTAL D., A. Todd, and G. Ozbay.
Dept. of Agriculture and Natural Resources, Delaware State University, Dover, DE 19901
53. **MAGNESIUM CONCENTRATIONS IN HOAGLAND SOLUTIONS AFFECT CAROTENOID AND GLUCOSINOLATE CONTENTS IN KALE**
KOFFI, A., and T. Nzaramyimana.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601
54. **SKIN CANCER PREVENTION PRACTICES AMONG FARMERS: A SCOPING REVIEW OF TWO BEHAVIORAL THEORIES**
FAKOLADE, SUSAN O., E. A. Akinola, G. Besona, and F. N. Bebe.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601
55. **ECONOMIC VIABILITY OF AGRIVOLTAICS FOR SMALL-SCALE FARMERS IN KENTUCKY: A COST-BENEFIT ANALYSIS**
ABDULKADIR, FARIDA, S. Upadhaya, G. Stratton, and S. Sarr.
School of Agriculture and Natural Resources, College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601
56. **LONG-TERM IMPACT OF CONSERVATION AGRICULTURE PRACTICES ON SOIL HEALTH**
HAYAT, A., M. Gebremedhin, G. Antonious, A. Chiluwal, J. Brown, and F. Ife.
School of Agriculture and Natural Resources, Kentucky State University, Frankfort, KY 40601
57. **COASTAL CONNECTIONS: COMMUNICATING ECOLOGY THROUGH ART**
RHIMYR, WILLOW¹, and A. DeCiccio².
¹Dept. of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088
²Graduate School of Oceanography, University of Rhode Island, Narragansett, RI 02882
58. **ASSESSMENT OF HEAVY METAL CONTAMINATION IN SOIL AND UPTAKE BY EGGPLANT FRUIT**
BORDOH, EDWARD KOJO TSIAH, and G. Antonious.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601
59. **PRELIMINARY STUDY OF WATER QUALITY AND LEAFY GREEN GROWTH IN AQUAPONICS: A BASELINE FOR MICROBIOLOGICAL SAFETY ASSESSMENT**
ONINKU, BECKHAM¹, F. M. Hashem², and G. Ozbay¹.
¹Dept. of Agriculture and Natural Resources, College of Agriculture, Science, and Technology, Delaware State University, Dover, DE 19901
²Dept. of Agriculture, Food and Resource Sciences, University of Maryland Eastern Shore, Princess Anne, MD 21853
60. **ENTERIC METHANE EMISSIONS AND PERFORMANCE OF KIKO DOES RAISED IN OPEN PASTURE AND SILVOPASTURE DURING SUMMER**
ACHARYA, ARJUN, U. Karki, S. Acharya, and M. Dumre.
Dept. of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088

61. **SHORT-TERM IMPACT OF VARYING BIOCHAR RATES ON LABILE AND SOIL ORGANIC CARBON DISTRIBUTION WITH DEPTH**
JOSHI, M., and M. Gebremedhin.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601

62. **EFFECTS OF SOIL AMENDMENTS ON GLUCOSINOLATE, MYROSINASE ACTIVITY, Fe²⁺, AND ASCORBATE**
KATTEL, SUJATA, and G. F. Antonious.
School of Agriculture and Natural Resources, College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601

63. **BIOCHAR PREPARED FROM VEGETABLE WASTES: AN OVERVIEW**
BENJAMIN, NGOZI, and G. F. Antonious.
School of Agriculture and Natural Resources, College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601

64. **BASIN IN MOTION: UNDERSTANDING LAND USE AND LAND COVER DYNAMICS IN THE KENTUCKY RIVER BASIN**
OYEWO, HABEEB, S. Upadhaya, B. Gyawali, C. Wang, and M. Parajuli.
School of Agriculture and Natural Resources, College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601

65. **IMPACT OF BIOCHAR APPLICATION ON HYDRO-PHYSICAL PROPERTIES OF SILTY LOAM**
TUDZI, E., and M. Gebremedhin.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601

66. **COMPARISON BETWEEN DRIP HYDROPONICS AND SOIL-BASED SYSTEMS FOR GROWING *EARLY GIRL* TOMATOES IN HIGH TUNNELS**
OYEDIRAN, SODIQ, S. Dasgupta, and J. Howard.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601

67. **ON-FARM SOIL HEALTH ASSESSMENT OF AGRICULTURAL LAND UNDER CONTINUOUS ROTATIONAL GOAT GRAZING IN CENTRAL KENTUCKY: A BASELINE**
AKINFOLARIN, KEHINDE, P. Obura, S. Airee, S. Adhikari, and S. Panthi.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601

68. **TEMPORAL EFFECTS OF FERTILITY MANAGEMENT ON SOIL HEALTH UNDER CORN AND SOYBEAN IN KENTUCKY**
OBEBE, OLUFISAYO, A. Mukherji, P. Obura, and M. Gebremedhin.
School of Agriculture and Natural Resources, College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601

69. **IMPACT OF POULTRY MANURE AND INORGANIC FERTILIZERS ON GROWTH, YIELD OF TOMATO, AND SOIL QUALITY**
PANTHI, SUREKHA, P. Obura, S. Airee, S. Adhikari, and K. Akinfolarin.
School of Agriculture and Natural Resources, College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601

70. **NON-DESTRUCTIVE STRESS PHYSIOLOGY ASSESSMENT FOR EARLY DIAGNOSIS OF DROUGHT AND NUTRIENT STRESS IN RHIZOMA PEANUT**
 COLEMAN, KATELIN C.¹, A. Siddique², S. Basak², and S. D. Samuels².
¹Dept. of Animal Sciences, College of Agriculture, Family Sciences and Technology, Fort Valley State University, Fort Valley, GA 31030
²Dept. of Plant Sciences, College of Agriculture, Family Sciences and Technology, Fort Valley State University, Fort Valley, GA 31030
71. **INFLUENCE OF COVER CROPS ON GROWTH PERFORMANCE, RUMEN FERMENTATION, AND CARCASS TRAITS OF GRAZING MEAT GOATS**
 KANYI, VIVIAN, B. R. Min, M. Hilaire, H. Ismael, S. Chaudhary, and H. Abdo.
¹Dept. of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088
72. **UNLOCKING PLANT PLASTICITY: TDZ-ENHANCED SOMATIC EMBRYOGENESIS FROM *ARABIDOPSIS* ROSETTE LEAVES**
 AGUTI, GRACE¹, M. Okoma¹, M. Egnin¹, S. Day¹, C. Thompson¹, B. Rusnak², A. Roeder², I. Ritte¹, G. C. Bernard¹, L. Hu², and A. Sharma¹.
¹College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088
²Weill Institute for Cell and Molecular Biology and Plant Biology Section, School of Integrative Plant Science, Cornell University, Ithaca, NY 14853
- METABOLOMIC ANALYSIS OF BOTH HIGH AND LOW *HAEMONCHUS CONTORTUS* BURDEN FECAL SAMPLES FROM MEAT GOATS FED EITHER *CYNODON DACTYLON* (BERMUDAGRASS) OR *CROTALARIA JUNCIA* L. (SUNN HEMP)**
 HILAIRE, MARILINE¹, B. Gines², W. E. Collier², H. Wang³, S. Chaudhary¹, V. Kanyi¹, H. Abdo¹, H. Ismael¹, E. C. St. Preux¹, M. Boersma⁴, and B. R. Min¹.
¹Dept. of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088
²Dept. of Chemistry, Tuskegee University, Tuskegee, AL 36088
³Dept. of Biology, Tuskegee University, Tuskegee, AL 36088
⁴Dept. of Chemistry and Biochemistry, Mass Spectrometry Lab, Auburn University, Auburn, AL 36849
73. **P.I.C.M.E.: PRECISION INSPECTION CROP MANAGEMENT AND THE EVALUATION OF FRUIT**
 SKYE, TAYLOR J.¹, Z. Bean¹, W. Rudd², D. Vaught², B. Sowden², R. Threlfall¹, A. McWhirt³, and A. Gunderman².
¹Dept. of Food Science, University of Arkansas System, Fayetteville, AR 72701
²Dept. of Mechanical Engineering, University of Arkansas, Fayetteville, AR 72701
³Cooperative Extension Service, University of Arkansas System, Little Rock, AR 72204
74. **IMPACT OF FUNGAL PROTEASE ON DIGESTION OF GROUND SORGHUM GRAIN BY MIXED RUMINAL MICROORGANISMS**
 FRANKLIN, AVERY¹, L. Monteiro², E. Kiselewski², and J. Drouillard².
¹South Carolina State University, Orangeburg, SC 29117
²Dept. of Animal Science and Industry, Kansas State University, Manhattan, KS 66506
75. **COMPARATIVE MORPHOLOGY OF FIRST- AND SECOND-YEAR SHOOTS IN THREE RUBUS SPECIES**
 MANNING, SHELTON JR., M. Patrick, K. Fessler, and M. Clark.
 Dept. of Horticultural Science, College of Food, Agricultural and Natural Resource Sciences (CFANS), University of Minnesota, St. Paul, MN 55108, Sponsoring Program: SOAR-REEU, Home Institution: South Carolina State University
76. **HOUSING AFFORDABILITY CHALLENGES ON LOW-INCOME EARNERS IN TUSKEGEE, ALABAMA, AND GWARIMPA, ABUJA, NIGERIA**
 PAUL, ADOLE, and J. Jimmeh.
 Dept. of Integrative Public Policy and Development, Tuskegee University, Tuskegee, AL 36088

77. **META-ANALYSIS OF THE DIETARY INCLUSION OF GRAPE POMACE ON INTAKE, CARCASS YIELD, AND MEAT QUALITY OF SHEEP**
KING, KAMARI D.¹, A. Pech-Cervantes², M. Hitit², Z. Erdogan², Z. Estrada-Reyes² y T. Terrill².
¹College of Agriculture, Food and Natural Resources, Cooperative Agricultural Research Center, Prairie View A&M University, Prairie View, TX 77446
²College of Agriculture, Family Sciences, and Technology, Fort Valley State University, Fort Valley, GA 31030
78. **ASSESSMENT OF CONSUMER SENSORY PREFERENCES FOR COOKED GOAT MEAT**
CARTER, EDWARD¹, M. Ibrahim¹, N. Pattanaik¹, F. Hollis¹, J. Lee¹, B. Cornish¹, and B. Onyango².
¹College of Agriculture, Family Sciences, and Technology, Fort Valley State University, Fort Valley, GA 31030
²Darr School of Agriculture, Missouri State University, Springfield, MO 65897
79. **KEY FACTORS INFLUENCING GOAT MEAT DEMAND IN THE SOUTHERN UNITED STATES**
POTTER, RAHYN D.¹, M. Ibrahim¹, B. Kouakou¹, N. Pattanaik¹, B. Cornish¹, and B. Onyango².
¹College of Agriculture, Family Sciences, and Technology, Fort Valley State University, Fort Valley, GA 31030
²Darr School of Agriculture, Missouri State University, Springfield, MO 65897
80. **EVALUATION AND CORRELATION BETWEEN TOC CONTENT, SOIL TYPE, AND PAH CONTAMINATION**
REED, TAYLORE, and C. Thomas.
South Carolina State University, Orangeburg, SC 29117
81. **MINIATURE MARVELS: DEVELOPING AN ECOLOGICAL STEM CURRICULUM GUIDE FOR K–12 EDUCATORS**
WOODS, CARMEN E.¹, C. Knight², and B. Van Skoik².
¹School of Education, Tuskegee University, Tuskegee, AL 36088
²Dept. of Biology, Tuskegee University, Tuskegee, AL 36088
82. **THE MORPHO-IDENTITY OF MYXOMYCETES ISOLATED FROM CAMP ATKINS FOREST LOCATED ON THE CAMPUS OF TUSKEGEE UNIVERSITY**
ROSS, MATYIA J.¹, B. Van Skoik², and C. A. Knight².
¹Dept. of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088
²Dept. of Biology, Tuskegee University, Tuskegee, AL 36088
83. **ASSESSMENT OF EXTREME RAIN AND FLOODS ALONG THE GULF COAST THROUGH NUMERICAL WEATHER MODELING**
ALGENDY, REDA, G. El Afandi, M. Irfan, A. Moustafa, S. Ibrahim, and S. Sapkota.
Dept. of Agriculture and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088
84. **EFFECTS OF DRIED DISTILLERS GRAIN ON BROILERS TO IMPROVE FEED EFFICIENCY**
FORD, DE'KEVION¹, J. Morton¹, F. DeRouen², and H. Mellieon Jr.¹
¹Dept. of Agricultural Sciences and Technology, Southern University and A&M College, Baton Rouge, LA 70813
²Southern University Agricultural Research and Extension Center, Baton Rouge, LA 70813
85. **PANGENOME ANALYSIS OF SHIGA TOXIN–PRODUCING *ESCHERICHIA COLI* (STEC) REVEALS GENETIC DIVERSITY AND POTENTIAL SEROTYPE-SPECIFIC DIAGNOSTIC TARGETS**
ELREFAEY, ASMAA, K. Bentum, E. Kuufire, R. Nyarku, V. Osei, T. James, T. Samuel, and W. Abebe.
Center for Food Animal Health, Food Safety and Defense, Dept. of Pathobiology, College of Veterinary Medicine, Tuskegee University, Tuskegee, AL 36088
86. **RELATIONSHIP BETWEEN FINAL WEIGHT LOSS AND WATER ACTIVITY OF JERKY PREPARED FROM ASIAN CARP MEAT**
SMOOT, ERIN, O. Ayoola, L. Alagbe, and C. Wang.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601
87. **EXPANDING OPPORTUNITIES FOR BEGINNING SMALL-SCALE VEGETABLE GROWERS THROUGH SALES TO ETHNIC GROCERY STORES**
OBBU, RUBY, and S. Dasgupta.
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601

88. **DISCOVER NEPAL: CULTURE, CONSERVATION, AND COMMUNITY THROUGH LOCAL KNOWLEDGE**
JONES, AHRION, and B. Gyawali.
School of Agriculture and Natural Resources, College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY 40601
89. **DEVELOPING A LIVER ABSCESS MODEL IN GROWING CALVES**
DAVIS, DESTINAE M.¹, G. Combs², and L. Baumgard².
¹Dept. of Animal Science, Southern University and A&M College, Baton Rouge, LA 70807
²Dept. of Animal Science, Iowa State University, Ames, IA 50011
90. **FUNCTIONAL ANALYSIS OF SCARECROW (SCR) IN REGULATING ROOT GROWTH OF *ARABIDOPSIS THALIANA***
ANDERSON, YVONNE, G. Aguti, and A. Sharma.
Dept. of Biology, Tuskegee University, Tuskegee, AL 36088
91. **GROWTH BEYOND SOIL: A COMPARATIVE STUDY BETWEEN CONVENTIONAL AGRICULTURE AND HYDROPONIC FARMING**
COLVARD, ASHA S., BISWAS, B.
College of Agriculture, Family Sciences, and Technology, Fort Valley State University, Fort Valley, GA 31030
92. **EFFECTS OF BIOCHAR SUPPLEMENTATION ON GROWTH PERFORMANCE, DRY MATTER INTAKE, AND CARCASS QUALITY IN BOER × SPANISH MALE GOATS**
BUDHA, BIPANA, S. Chaudhary, V. Kanyi, M. Hilaire, H. Ismael, H. Abdo, B. R. Min, and N. Gurung.
Dept. of Agricultural and Environmental Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088
93. **COMPARATIVE ANALYSIS OF GROWTH AND YIELD PERFORMANCE OF LETTUCE CULTIVARS IN AQUAPONIC AND SOIL-BASED SYSTEMS**
IVEY, T.REMAR, A. Compere, S. Moreno, I. Williams, J. Jones, H. Fontenet, J. Price, L. Kibet, and K. Ghosh.
Dept of Agriculture and Natural Resources, Langston University, Langston, OK 73050
94. **COMPARISON OF MANUAL AND LIDAR SCAN MEASUREMENTS OF CARCASS TRAITS IN BOVINES**
MKUNGA, MAXWELL MURIUKI¹, L. Leon-Medina², G. Hunter², L. Rios de Alvarez², and D. Devost Burnett¹.
¹Dept. of Agriculture and Environmental Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088
²Dept. of Animal and Dairy Sciences, Mississippi State University, Starkville, MS 39762
95. **ENHANCING PROFITS: PRECONDITIONING BENEFITS FOR SMALL AND RESOURCE-LIMITED CATTLE PRODUCERS**
RIMAL, PARSHURAM, B. Budha, and N. Gurung.
College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088
96. **THE EFFECTS OF SALTWATER INTRUSION ON GREENHOUSE GAS EMISSIONS FROM SOIL IN A COASTAL WETLAND**
FORBES, VICTORIA M.¹, C. Pell², and G. Moore².
¹Dept. of Agriculture and Environmental Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088
²Dept. of Biology, Georgia Southern University, Statesboro, GA 30460
97. **IDENTIFYING A GENOMIC SAFE HARBOR IN TOMATO**
THOMPSON, CARRINGTON^{1,2}, J. Larkin², S. Hind^{2,3}, M. Egnin¹, I. Ritte¹, M. Okoma¹, and G. C. Bernard¹.
¹Dept. of Agricultural and Environmental Sciences, Plant Biotechnology and Genomics Research Lab, Tuskegee University, Tuskegee, AL 36088

²Dept. of Crop Sciences, University of Illinois Urbana–Champaign, Urbana, IL 61801

³School of Plant Sciences, College of Agriculture, Life and Environmental Sciences, University of Arizona, Tucson, AZ 85721100.

98. **URBAN FARM SCHOOL: A SEED-TO-SALE EXPERIENTIAL TRAINING MODEL FOR SMALL FARMERS IN NORTH CAROLINA**

RICHARD, CELINE, and B. Dari.

Cooperative Extension, North Carolina A&T State University, Greensboro, NC 27411

99. **CULTIVATING WEST VIRGINIA: TRENDS AND CHALLENGES IN WEST VIRGINIA'S APPLE INDUSTRY FROM 2005–2025**

HODGES, EDEN H., and S. Bandara.

Dept. of Business and Social Sciences, West Virginia State University, Institute, WV 25112

BRIDGE TO SUCCESS: HOW PROGRAM LENGTH AFFECTS STUDENT LEARNING

CLAYTON, AMORÉ¹, N. Okotcha², Z. Wiley³, L. Hobbs Jr.⁴, and C. Carpenter III⁵.

¹Tuskegee University, Tuskegee, AL 36088

²Southern University and A&M College, Baton Rouge, LA 70813

³Office of Student Success, Kansas State University, Manhattan, KS 66506

⁴Dept. of Agricultural Economics, Kansas State University, Manhattan, KS 66506

⁵Leadership Studies, College of Agriculture, Kansas State University, Manhattan, KS 66506

100. **ANALYZING U.S. GOAT MEAT PRODUCTION, MARKET DYNAMICS, AND POTENTIAL FOR SELF-SUFFICIENCY**

KATUWAL, DHARMA RAJ¹, L. B. Karki^{1,2}, and E. N. Escobar^{1,2}.

¹Dept. of Agriculture, Food, and Resource Sciences, University of Maryland Eastern Shore, Princess Anne, MD 21853

²UMES Extension, University of Maryland Eastern Shore, Princess Anne, MD 21853

101. **EVALUATING DRONE TECHNOLOGY TRAINING EFFECTIVENESS FOR LOUISIANA 4-H EXTENSION AGENTS: A PRE-POST ASSESSMENT STUDY**

KOMUNJERU, BENITA¹, B. Gautreau², and M. Burnett².

¹Dept. of Agricultural Extension Education and Evaluation, Louisiana State University, Baton Rouge, LA 70803

²4-H Youth Development Program, LSU AgCenter, Baton Rouge, LA 70803

102. **NEED FOR AGROFORESTRY EDUCATION FOR SMALLHOLDER FARMERS IN MARYLAND**

DIACK, MOUHAMADOU LAMINE¹, and L. B. Karki^{1,2}.

¹Dept. of Agriculture, Food, and Resource Sciences, University of Maryland Eastern Shore, Princess Anne, MD 21853

²UMES Extension, University of Maryland Eastern Shore, Princess Anne, MD 21853

103. **ENVIRONMENTAL JUSTICE AND SUPERFUND REMEDIATION: THE PERCEPTION OF THE ENVIRONMENTAL, ECONOMIC, AND ENERGY ACADEMY COHORTS**

OJARIKRE, OVIGUEROYE, R. Zabawa, S. Fall, T. Gautum, O. Samples, and R. Shange.

Land-Grant Program, Dept. of Integrative Public Policy and Development, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088

104. **DIGITAL MARKETING AND PROFITABILITY: A CASE OF SMALLHOLDER FARMERS' MARKETS IN MARYLAND**

NJOROGE, LUCY W.¹, R. Khadka¹, R. Limbu Sanwa¹, K. Lila², and M. Diack¹.

¹Dept. of Agriculture, Food, and Resource Sciences, University of Maryland Eastern Shore, Princess Anne, MD 21853

²University of Maryland Eastern Shore, Princess Anne, MD 21853

105. **SOCIO-ECONOMIC POTENTIALS OF FIG-BASED ALLEY CROPPING IN MARYLAND**

DHAKAL, ANUJ, and L. B. Karki.

Dept. of Agriculture, Food, and Resource Sciences, University of Maryland Eastern Shore, Princess Anne, MD 21853

106. **DATA-DRIVEN FOOD DEMAND FORECASTING FOR FOOD PANTRIES IN ALABAMA**
LI, MENGXUE¹, R. Chen¹, and Y. Sun².
¹Dept. of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088
²Dept. of Electrical and Computer Engineering, Auburn University, Auburn, AL 36849

107. **POTENTIAL OF SOUTHERN PINE SILVOPASTURE TO MITIGATE ENTERIC METHANE EMISSIONS AND ENHANCE PERFORMANCE OF HAIR SHEEP**
ACHARYA, SAGAR, U. Karki, A. Acharya, and M. Dumre.
Dept. of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088

108. **COMMUNAL FASTING AND AUTOPHAGY: FAITH MEETS BIOLOGY**
HARRIS, DE'AREE R., U. Karki
Dept. of Agricultural Sciences, Southern University and A&M College, Baton Rouge, LA 70807

109. **ROLE OF MONEY \$MART CLUB IN STRENGTHENING FINANCIAL LITERACY FOR COLLEGIATE YOUTH**
THAGUNNA, SURAJ SINGH¹, L. B. Karki^{1,2}, S. L. Tubene², M. Kaba², R. Khadka², M. L. Diack², S. Wright², and E. N. Escobar^{1,2}.
¹Dept. of Agriculture, Food, and Resource Sciences, University of Maryland Eastern Shore, Princess Anne, MD 21853
²UMES Extension, University of Maryland Eastern Shore, Princess Anne, MD 21853

110. **THE EFFECTS OF BUCK EXPOSURE ON THE ESTROUS CYCLE OF MULTI-BREED MEAT GOATS**
PEARSON, LAUREN V., T. Adamopoulos, E. Hayes, and R. Browning.
Dept. of Agricultural and Animal Science, Tennessee State University, Nashville, TN 37209

111. **INTEGRATING AUTOMATION, INNOVATION, AND EXPERIENTIAL LEARNING THROUGH TEACHING, RESEARCH, AND OUTREACH FOR SMALL-SCALE AGRICULTURE**
BAKARI, NAADIR A., V. York, A. Brown, C. Jones, V. Abera, D. Wilson, R. Menon, K. Jones, M. Egnin, I. Ritte, M. Okoma, G. Aguti, S. Critchlow, O. Idehen, and G. C. Bernard.
Dept. of Agricultural and Environmental Sciences, Plant Biotechnology and Genomics Research Lab, Tuskegee University, Tuskegee, AL 36088

112. **THE ROLE OF NONGOVERNMENTAL ORGANIZATIONS IN SUPPORTING GEORGIA FARMERS AMID RISING TEMPERATURES**
SHERROD, KOURTNEY K.¹, and G. Tinubu².
¹College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088, ²Cooperative Extension, Tuskegee University, Tuskegee, AL 36088

113. **A PRELIMINARY ANALYSIS ON THE INFLUENCE OF MYOTONIC SIRES ON REPRODUCTIVE PERFORMANCE IN SPANISH AND KIKO MEAT GOATS**
COLE, JAYDEN, J. Hubbard, E. Hayes, and R. Browning Jr.
Dept. of Agricultural and Animal Science, Tennessee State University, Nashville, TN 37209

114. **IMPROVING DEPTH-SPECIFIC SOIL MOISTURE FORECASTS USING A MACHINE LEARNING APPROACH**
OLAKANMI, ENIOLA E.¹, J. Quansah¹, S. Fall¹, and F. Wu².
¹Dept. of Agricultural and Environmental Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088.
²Computer Science Dept., Tuskegee University, Tuskegee, AL 36088.

115. **ROLE OF MODERN TOOLS FOR INCREASING THE SUPPLY OF SEEDLINGS TO COMMUNITY GARDENERS IN PULASKI AND JEFFERSON COUNTIES OF ARKANSAS**
SHELBY, ANDRE Jr., and S. K. Ponniah.
Department of Agriculture, School of Agriculture, Fisheries and Human Sciences, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.

116. **THE ROLE OF CALCIUM IN ENHANCING COLD STRESS TOLERANCE IN *CAPSICUM ANNUM* L. CULTIVATION**
SPILLER, KENNEDY L.^{1,2}, J. Legois², A. Nair², and R. Arora².
¹Department of Agriculture, Environment, and Nutrition Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088.
²Department of Horticulture, Iowa State University, Ames, IA 50011.
117. **ASSESSING THE EFFECT OF POTYVIRUSES ON DIFFERENT GENERATIONS OF BEAUREGARD SWEETPOTATO VARIETY**
RAY, KYLAN L. and S. K. Ponniah.
Department of Agriculture, University of Arkansas at Pine Bluff, 1200 University Drive, Pine Bluff, AR 71601.
118. **MODELING TEMPERATURE AND TIME-BASED RISK OF *Vibrio parahaemolyticus* IN *Crassostrea virginica*: APPLICATIONS FOR DELAWARE'S OYSTER AQUACULTURE INDUSTRY**
MARTIN, K. Jahan, A. Todd, C. Acheamfour, and G. Ozbay
Delaware State University One Health Laboratory, Dover, DE 19901.
119. **EVALUATING THE SURVIVAL RATE OF SWEETPOTATO SLIPS UNDER FIELD CONDITIONS**
RAVIKUMAR, AJITHA, and S. K. Ponniah.
Department of Agriculture, School of Agriculture, Fisheries and Human Sciences, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
120. **ASSESSING THE ROLE OF SOIL MICROBIOME IN THE DIFFERENT GENERATIONS OF SWEETPOTATO ROOTS**
MUKIRI, LINDA and S. K. Ponniah.
Department of Agriculture, School of Agriculture, Fisheries and Human Sciences, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
121. **CLOSING THE GAP: EXPANDING MEAT PROCESSING OPPORTUNITIES IN WEST VIRGINIA**
COULTER, PEYTON, S. Bandara.
West Virginia State University, 100 East Hall, Institute, WV 25112
122. **ALKALINE pH MITIGATES AMMONIA TOXICITY IN CHANNEL CATFISH BY ENHANCING ION REGULATION, ENERGY BALANCE, AND Rh GLYCOPROTEIN EXPRESSION**
FAHIM, FATIN I, T. Bhattacharjee, K. Adhikari, S. Bhattarai, and A. Sinha.
¹Dept. of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
123. **RAISING WATER pH ENHANCES PHYSIOLOGICAL, ION BALANCE, AND ENERGY METABOLISM RESILIENCE IN CHANNEL CATFISH AGAINST IRON TOXICITY**
BHATTACHARJEE, TILUTTOM, F.I. Fahim, K. Adhikari, N. Kafle, S. Bhattarai, and A. Sinha.
Dept. of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601
124. **THE EFFECT OF TARIFFS IN THE AGRICULTURE WORLD**
CROSBY, JABARI, and O. Bolden-Tiller.
Dept of Agriculture and Environmental Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088. Tuskegee University, Tuskegee, AL 36088
125. **INTEGRATING AI TECHNOLOGIES IN WEED DETECTION: EMERGING APPROACHES TO IMPROVE FOOD SAFETY IN CROP PRODUCTION**
OGUNBADE, OLUWADEMILADE, and K. Harris.
Dept. of Human Sciences, University of Arkansas at Pine Bluff, 1200 North University Drive, Pine Bluff, AR 71601.

126. **NON-CHEMICAL METHODS FOR CONTROLLING GASTROINTESTINAL NEMATODES IN SMALL RUMINANTS: A REVIEW**
DUMRE, MADHAV, U. Karki, A. Acharya, and S. Acharya.
¹Dept. of Agricultural and Environmental Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088.
127. **HAZARDOUS WASTE AND ENVIRONMENTAL JUSTICE IN THE BLACK BELT: A SYSTEMATIC REVIEW OF POLICY EFFICACY AND REGULATORY DISPARITIES**
ADDO, MARY A., R. Shange, and R. Zabawa.
Dept. of Agriculture and Environmental Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088.
128. **PHAGE ENDOLYSINS FOR CONTROLLING *LISTERIA MONOCYTOGENES* TO ENHANCE FOOD SAFETY**
GURUNG, REEMA, G. Geary, K. Lewis, and A. Sharma.
Dept. of Biology, College of Arts and Sciences, Tuskegee University, Tuskegee, AL 36088.
129. **COST-BENEFIT ANALYSIS OF GREENHOUSE LETTUCE PRODUCTION: A CASE STUDY**
NYARKOH, GIDEON and R. Chen.
Dept. of Agricultural and Environmental Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088.
130. **RAISED BED VEGETABLES VERSUS TRADITIONAL STORE-BOUGHT VEGETABLES: A COMPARISON OF THE NUTRITIONAL PROFILE**
YEBOAH, JACQUELINE, M. D. Fahim Eashat, and N. Dawkins.
Dept. of Food and Nutritional Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088.
131. **FIRE IN THE ORCHARD: ISOLATION, CHARACTERIZATION, AND ANTIMICROBIAL SENSITIVITY OF *ERWINIA AMYLOVORA* CAUSING FIRE BLIGHT ON PEAR IN MISSISSIPPI**
ABDUL-LATEEF, POPOOLA, and E. Ali.
Dept. of Agronomy and Biotech, Alcorn State University, Lorman, MS 39096.
132. **COMPLEMENTARY FEEDING PRACTICES AMONG TODDLERS IN CENTRAL UGANDA**
KAGULIRE, JOHNPAL, P. Gichuhi, and A. Bovell-Benjamin.
Dept. of Food and Nutritional Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088.
133. **GREEN SYNTHESIS, CHARACTERIZATION, AND FUNCTIONAL EVALUATION OF ZINC OXIDE NANOPARTICLES USING *HIBISCUS ROSA-SINENSIS* LEAF EXTRACT**
IBNAT, NANZIBA, S. Chowdhury, M. Azad, and S. Islam.
Department of Agricultural Regulations, University of Arkansas at Pine Bluff, Pine Bluff, AR, USA.
134. **PHYTOCHEMICAL AND ANTIOXIDANT PROFILING OF ARKANSAS-GROWN WILD AND CULTIVATED BLUEBERRIES: A COMPARATIVE ANALYSIS**
CHOWDHURY, SALEH, N. Ibnat, M. Azad, and S. Islam.
Department of Agricultural Regulations, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
135. **ENHANCING GROWTH AND HEALTH OF LARGEMOUTH BASS FINGERLINGS WITH SINGLE-CELL PROTEINS AND PROBIOTICS IN BASAL DIETS**
CHERIYAN, RANIA², F. Karim¹, H. Wanjala¹, S. Reed¹, Y. Ramena¹, and G. Ramena¹.
¹Dept. of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
²Dept. of Arts and Sciences, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.

136. **DEVELOPMENT OF A PATIENT-DERIVED ZEBRAFISH XENOGRAFT MODEL FOR GLIOBLASTOMA**
WANJALA, HUMPHREY¹, G. Ramena¹, and A. Rodriguez². ¹Dept. of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, Arkansas 71601, ²Dept. of Neurosurgery, University of Arkansas for Medical Sciences, Little Rock, Arkansas 72205
137. **GREEN CLASSROOMS: LINKING FARMS, SCHOOLS, AND STUDENT SUCCESS**
JACKSON, ERIKA, T. White, and D. White.
UAPB Discovery Farm Educational Center, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
138. **ECONOMIC ANALYSIS OF COVER CROPS IN ARKANSAS**
CAMPBELL, CHASE, T. White, and R. Nedd.
UAPB Discovery Farm Educational Center, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
139. **THE EFFECTS OF COMPOST ON SOIL HEALTH**
NELSON, KENDRICK, T. White, and D. White.
UAPB Discovery Farm Educational Center, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
140. **EVALUATING THE ROLE OF NATIVE GRASSES IN IMPROVING WATER QUALITY AND SOIL HEALTH IN AGRICULTURAL FIELDS**
BEASLEY, JAMARION and T. White.
UAPB Discovery Farm Educational Center, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
141. **MAPPING SEDIMENT VARIABILITY ON AN ARTIFICIAL REEF USING MULTIBEAM SONAR BACKSCATTER DATA**
CARR, DE'SHELL¹ and A. Hiroji².
¹College of Arts and Sciences, Tuskegee University, Tuskegee, AL 36088.
²College of Marine Science, The University of Southern Mississippi, Ocean Springs, MS 39564
142. **THE SPATIAL AND SEASONAL DISTRIBUTION OF AIR-SEA CO₂ FLUX IN NARRAGANSETT BAY, RI**
PRUITT, KAILA¹ and H. Wang².
¹College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088. Graduate School of Oceanography, University of Rhode Island, Narragansett, RI 02881.
143. **ASSESSMENT OF PHYSICOCHEMICAL AND MICROBIOLOGICAL WATER QUALITY IN TREATED AND UNTREATED SOURCES OF TUSKEGEE, ALABAMA**
WALLACE, JACQUELINE, O. Idehen, and V. Alston.
Dept. of Agriculture and Environmental Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088.
144. **HOW LONG TILL I CROAK? AGE AND GROWTH DYNAMICS OF ATLANTIC CROAKER (*MICROPOGONIAS UNDULATUS*) IN MISSISSIPPI WATERS**
TAYLOR, KARRINGTON¹, G. J. Gray², J. M. Higgs², J. M. Hendon², and D. C. Parkyn².
¹Dept. of Agricultural and Environmental Sciences, College 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
145. **INVESTIGATION OF POLLINATORS IN DIFFERENT HABITATS ON POLLINATOR COMMUNITIES**
SOLOMON, ISAIAH K. and Yong I. Park.
Dept. of Agriculture, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
146. **COMPARATIVE ANALYSIS OF PRODUCTION AND MARKET ACCEPTANCE OF SALAD GREENS AND CRUCIFEROUS VEGETABLES GROWN IN SOILLESS AND CONVENTIONAL SYSTEMS IN HIGH TUNNELS**
ADAWI, AMER, and Siddhartha Dasgupta
College of Agriculture, Health, and Natural Resources, Kentucky State University, Frankfort, KY, USA.

147. **SUSTAINABLE LAND UTILIZATION AND AGRIBUSINESS MODELS IN KENYAN SMALLHOLDER FARMS**
ELLINGBURG, SHYIA, Z. McGowan, J. Opiri, and P. Moore.
School of Agriculture, Fisheries and Human Sciences, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
148. **EDUCATING THE FUTURE: ASSESSING HOW TEACHING METHODS INFLUENCE YOUTH UNDERSTANDING OF AGRICULTURAL SUSTAINABILITY**
EARLES, DAWN¹, A. Hawkins², Z. Wiley³, L. Hobbs, Jr.⁴, and C. Carpenter III⁵.
¹College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088.
²Department of Entomology, Kansas State University, Manhattan, KS.
³Student, Staff and Success Office, Kansas State University, Manhattan, KS.
⁴Department of Agricultural Economics, Kansas State University, Manhattan, KS.
⁵Leadership Studies, College of Agriculture, Kansas State University, Manhattan, KS.
149. **IMPROVING SWEETPOTATO PRODUCTION IN ARKANSAS: UAPB SWEETPOTATO FOUNDATION SEED PROGRAM**
ROCHFORD, CHE L. Z.¹, R. A. Williams², and S. A. Francis³.
¹Dept. of Agriculture, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
²Dept. of Industrial Technology Management and Applied Engineering, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
³Outreach and Technology Transfer, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
150. **IN-VITRO EVALUATION OF THE VASCULAR AGING POTENTIAL OF RICE BRAN EXTRACT DERIVED FROM THE ARKANSAS-GROWN DIAMOND RICE CULTIVAR**
HULUM, TAMYA¹, P. Yadav¹, S. Mu², and S. Devarajan^{1,2}.
¹Nutrition and Food Science Program, Dept. of Human Sciences, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
²Dept. of Pharmacology & Toxicology, University of Arkansas for Medical Sciences, Little Rock, AR 72205.
151. **OPTIMIZING ARTEMIA LIFE STAGE UTILIZATION FOR IMPROVED PERFORMANCE OF *LITOPENAEUS VANNAMEI* POST-LARVAE**
KURAPATI, RAM BABU, G. Ramena, T. White, A. Fuller, T. Bosteels, and Y. Ramena.
Department of Aquaculture and Fisheries, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
- FARM BILL PITCH: INCREASING OUTREACH FOR THE ENVIRONMENTAL QUALITY INCENTIVES PROGRAM IN JEFFERSON COUNTY**
WHITE, MORGAN D.¹, A. Noffsinger², A. Lock³, H. English⁴, and T. White⁴.
¹UAPB Small Farms Program, University of Arkansas at Pine Bluff, 1200 N. University Drive, Mail Slot 4912, Pine Bluff, AR 71601.
²United States Senate Committee on Agriculture, Nutrition, and Forestry, 328A Russell Senate Office Building, Washington, DC 20510.
⁴UAPB Cooperative Extension Program, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601.
152. **EXPLORING THE IMPACT OF GAMMA SIGMA DELTA MEMBERSHIP ON STUDENT SUCCESS: INSIGHTS FROM THE TUSKEGEE UNIVERSITY CHAPTER**
NYAME, JOSEPHINE, L. Asare-Baah, M. Egnin, G. C. Bernard, and O. Bolden-Tiller.
Department of Agricultural and Environmental Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088.
153. **BARRIERS TO AGRICULTURAL AND RURAL BUSINESS SUCCESS IN ALABAMA'S BLACK BELT: A POLICY-CENTERED ANALYSIS**
ROYAL, VERONICA, and L. Asare-Baah. Dept. of Integrative Public Policy, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088.

154. **EFFECT OF SOIL AMENDMENT TREATMENTS ON THE NUTRITIONAL COMPOSITION OF ORGANIC OKRA (*ABELMOSCHUS ESCULENTUS*)**
 NJOGU, HILDA¹, L. Kpombrekou¹, K. Kpombrekou-A², P. Gichuhi¹, and A. C. Bovell-Benjamin^{1,2}.
¹Department of Food and Nutritional Sciences, Tuskegee University, Tuskegee, AL 36088.
²Tuskegee University Organic Agriculture Institute, Tuskegee, AL 36088.

155. **NUTRITION KNOWLEDGE AND DIETARY PRACTICES AMONG AFRICAN-BORN IMMIGRANTS IN THE SOUTHEASTERN UNITED STATES**
 KPOMBLEKOU, LINDA and A. C. Bovell-Benjamin.
 Department of Food and Nutritional Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088. Tuskegee University, Tuskegee, AL 36088.

156. **OPTIMIZATION OF DRYING TEMPERATURE AND TIME FOR SWEETPOTATO STARCH ISOLATION**
 NGABONZIMA, VIATEUR, P. Gichuhi, and A. C. Bovell-Benjamin.
 Department of Food and Nutritional Sciences, Tuskegee University, Tuskegee, AL 36088.

157. **GROWING GREEN: PUBLICIZING AND CULTIVATING AWARENESS AND ACTION IN ORGANIC AGRICULTURE**
 SALAM, ATIYA, K. Kpombrekou-A, D. Mortley, A. Bovell-Benjamin, Y. Diabate, and F. Quarcoo.
 Dept. of Agricultural and Environmental Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088. Tuskegee University, Tuskegee, AL 36088.

158. **ANALYSIS OF FUNDING DISPARITIES BETWEEN 1862 AND 1890 MORRILL LAND-GRANT INSTITUTIONS IN ALABAMA, LOUISIANA, AND MISSISSIPPI: THE ROLE OF CASTE CONTRIBUTING TO INEQUITIES**
 PERRY, JAMES L.¹, R. Zabawa¹, R. Shange¹, W. Hill¹, J. Jimmeh², and A. Zekeri³.
¹Department of Agricultural and Environmental Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088. Tuskegee University, Tuskegee, AL 36088.
²Department of History and Political Science, Tuskegee University, Tuskegee, AL 36088.
³Department of Psychology and Sociology, Tuskegee University, Tuskegee, AL 36088.

159. **CONSUMER BEHAVIOR TOWARD GRASS-FED AND GRAIN-FED BEEF: A STUDY OF DEMOGRAPHIC FACTORS IN THE ALABAMA BLACK BELT**
 MURPHY, IMANI, and C. Harris.
 Department of Animal Science, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088.

SPONSORS

DIAMOND SPONSORS



Alcorn®

National Policy Research Center

PLATINUM PLUS SPONSOR



United States Department of Agriculture
Animal and Plant Health Inspection Service

PLATINUM SPONSOR



Sustainable Agriculture
Research & Education

SILVER SPONSORS



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

PAWC Advisory Board Members

Catherine Barnett, Freedom to Thrive
Rhonda Benton, Rhema Ranch
Sarah Bobrow-Williams, Tuskegee University & SRWI
Carl Butler, NetworkAG
Ralph Christy, Cornell University
Theresa Cooper, Iowa State University
Eman Crooks, Mississippi Association of Cooperatives
Iris Cole-Crosby, University of Arkansas at Pine Bluff
William A. Crutchfield, Virginia State University
Vivian Dickson, USDA – NRCS
Amadou Diop, US Forest Service
Robert Gates, Tri-County Agricultural Cooperative
Rosalind Harris, University of Kentucky
Lonnie Hobbs, Jr., Kansas State University
Karla Martin Hollis, USDA
Terrell Hollis, Fort Valley State University
Larry Holmes, USDA NRCS (retired)
Ronald Howell, Jr. Virginia State University
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
M. Ray McKinnie, North Carolina A & T University
Dawn Mellion-Patin, National Black Growers Council
Shannon Payne, Tuskegee University
Willie Pittman, USDA NRCS Retired
Miles Robinson, Tuskegee University
Raymon Shange, Tuskegee University
Eloris Speight, National Policy Research Center
Nii Tackie, Tuskegee University
Barrett Vaughan, Tuskegee University
Zelia Wiley, Kansas State University
Dreamal Worthen, Florida A & M University

PAWC LOCAL PLANNING MEETING

Program:	Tasha Hargrove, Robert Zabawa, & Olga Bolden-Tiller
Sponsorship:	Tasha Hargrove & Olga Bolden-Tiller
Finance:	Shannon Payne, Elizabeth Whetstone, De Ambria Abner, Pamela Gray & Tasha Hargrove
Registration:	Elizabeth Whetstone, Shannon Payne, Karen Craig, Shirley Brown, Wanda Carpenter-Morrow, De Ambria Abner, Fraun Williams & Tasha Hargrove
Help Desk:	Elizabeth Whetstone, Doris Eaves, Shirley Brown, Tiffani Williams, Fraun Williams, Folashade Adalumon Ntam and De Ambria Abner
Professional Posters:	Tasha Hargrove, Anthony Daniels, Doris Eaves, Fraun Williams, & Clarissa Harris
G.W.C. Awards:	Robert Zabawa, Karen Craig, & Tasha Hargrove
Exhibits:	Tasha Hargrove and DeAmbria Abner
Student Presentations:	Lucy Asare-Baah, Marceline Egnin, Norma Dawkins, 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
Technology & Website:	Peter Kanyi, Karen Craig, Doug Eaves, & Maurice Antonie
Hospitality:	Miles Robinson, Barrett Vaughan, Jacquelyn Carlisle, Folashade Adalumo Ntam, Faye Hall- Jackson, & Olga Bolden-Tiller
TAPS	Lakiah Clark, Janet Sullen, Clarissa Harris, & Olga Bolden- Tiller
MANRRS	Clarissa Harris and TU MANRRS Chapter
PAWC	Tuskegee University Faculty, Staff, & Students
Logistics	Anthony Daniels, Edward Gray, & Russell Johnson

THINGS TO DO IN MONTGOMERY AND TUSKEGEE

- Visit the historic campus of Tuskegee University!



TUSKEGEE
UNIVERSITY

Please note that all visitors must register with the TU Police Department to access the campus.

Visitors can register at

<https://www.tuskegee.edu/police/index.html>

- Experience American History at the Legacy Museum, the National Memorial for Peace and Justice, and the Freedom Monument Sculpture Park
Tickets can be purchased at <https://legacysites.eji.org>

- Discover Hidden Gems in Tuskegee – Historic Trolley Tours

Tickets can be purchased at www.tuskegeehistorictours.com



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.