

TUSKEGEE UNIVERSITY

81ST ANNUAL



PROFESSIONAL AGRICULTURAL
WORKERS CONFERENCE

Revisiting Our Roots: Unlocking the Power of Agriculture

October 29-31, 2023

Renaissance Montgomery Hotel and Spa

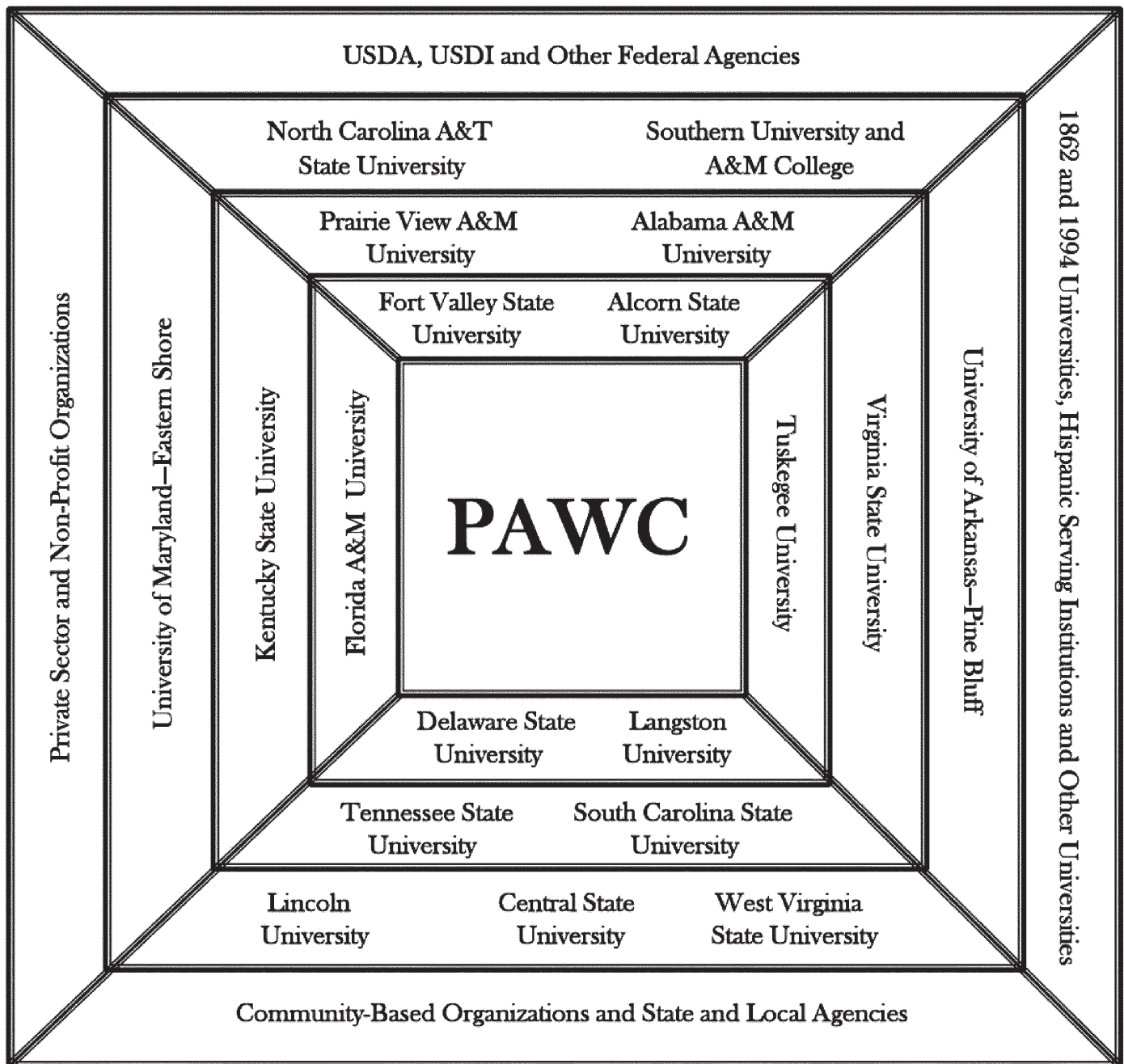
201 Tallapoosa Street, Montgomery, AL

www.pawc.info



This year's PAWC theme is *Revisiting Our Roots: Unlocking the Power of Agriculture*, and it is an important theme. By returning to the beginnings of the land grant system in 1862, with its important addition in 1890, the fruits of our education, research, and outreach allow us to revisit beginnings—the beginning knowledge of the soil with regenerative agriculture and organic production, the beginning knowledge of our communities by incorporating the village of our families, schools and churches, and the beginning knowledge of extension, of the school on wheels ideal, of one-on-one outreach, whether it's at the dining room table or through video conferencing. In Ghana, West Africa, this philosophy is expressed in the saying “so we were fi na wosan kofa a yenki” or “it is not taboo to go back and fetch what you forgot,” that we learn from the past to make a better future; and represented in the adinkra symbol of Sankofa, of the bird looking back. As we meet for the 81st time, let us take a moment to reflect on where we've been and how it can lead us to a better tomorrow.

PAWC VISION AND MISSION STATEMENTS



Vision

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

Mission

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

CONFERENCE MOBILE APP

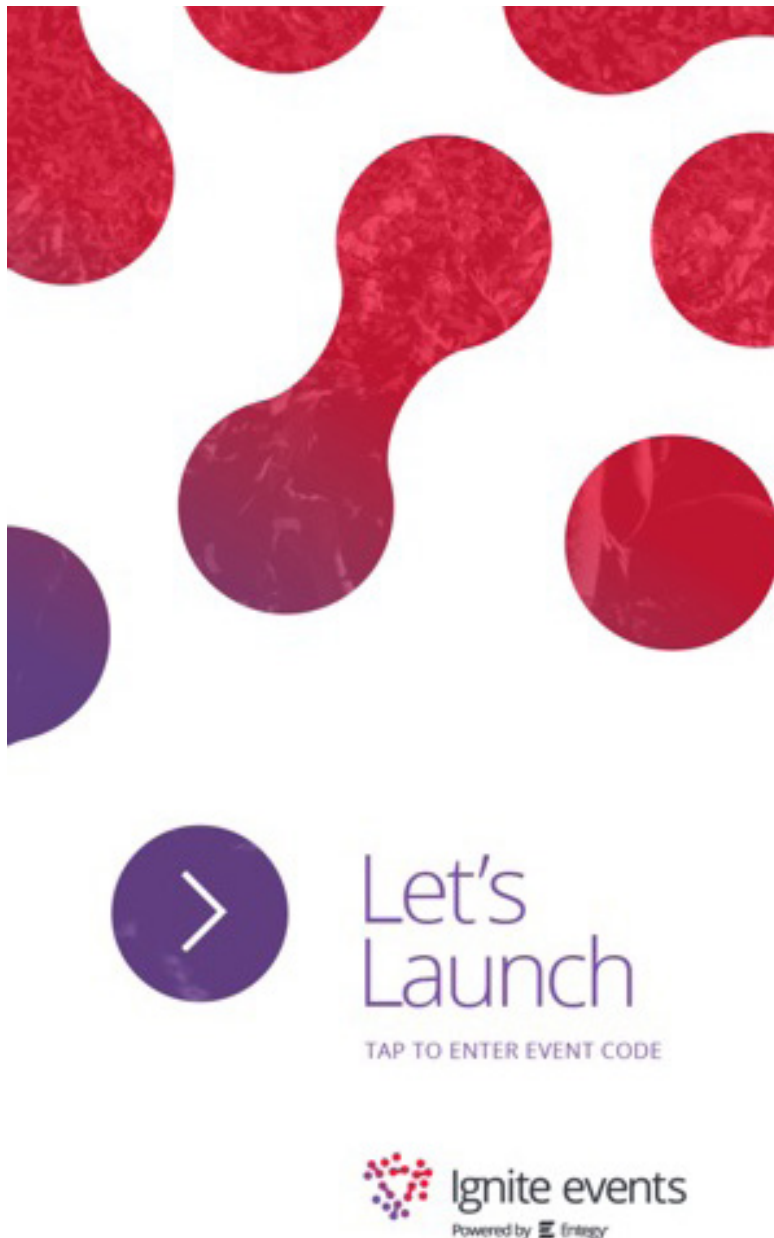
There's an App for That!

We have created a mobile app for the 81st PAWC. Use the app to plan your conference experience, stay updated with the latest news and announcements, see your schedule, view presentations, submit evaluations, ask questions, and more!

Once you download the Ignite app, create your profile.

How to Download the APP

- **Download the Ignite app from the app store**
- **Sign up for an account**



PAWC Bus Schedule

October 28 – 30, 2023



Saturday, October 28, 2023

Trip #	From:	To:	Departure Time
1	Renaissance Montgomery Convention Center	Tuskegee University Abbott Memorial Alumni Stadium	1:00 PM
2	Tuskegee University Kellogg Conference Center	Renaissance Montgomery	approximately 4:00 PM

Sunday, October 29, 2023

Trip #	From:	To:	Departure Time
1	Renaissance Montgomery Convention Center	Tuskegee University BTW Unveiling Statue	10:00 AM
2	Tuskegee University BTW Unveiling Statue	Renaissance Montgomery Convention Center	2:00 PM
3	Renaissance Montgomery Convention Center	Tuskegee University BTW Unveiling Statue	3:00 PM
4	Tuskegee University BTW Unveiling Statue	Renaissance Montgomery Convention Center	5:00 PM
5	Renaissance Montgomery Convention Center	Tuskegee University BTW Unveiling Statue	Immediately following banquet

Monday, October 30, 2023

Trip #	From:	To:	Departure Time
1	Renaissance Montgomery Convention Center	Tuskegee University Urban Ag Center (Montgomery, AL)	5:15 PM
2	Renaissance Montgomery Convention Center	Tuskegee University Urban Ag Center (Montgomery, AL)	5:40 PM
3	Tuskegee University Urban Ag Center (Montgomery, AL)	Renaissance Montgomery Convention Center	6:54 PM

**Transportation provided by
Stallings Tours, LLC**

2177 Lee Road 208 | Phoenix City, AL 36870
stallingtours@aol.com
(706) 888-9197

SATURDAY, OCTOBER 28, 2023

AGENDA AT A GLANCE

8:00 am – 5:00 pm	DAES Advisory Board Meeting	Montgomery Renaissance Hotel & Spa Riverview 1
8:00 am – 8:00 pm	Tomorrow's Agricultural Professional Symposium – High School & Junior MANRRS Alabama Leadership Institute	Tuskegee University Henderson Hall Auditorium
12:00 pm – 3:00 pm	TU Forestry & Natural Resources Program/PAWC Tailgate	Tuskegee University TU Football Stadium
1:00 pm – 4:00 pm	Tuskegee University Football Game TU vs Clark Atlanta (on your own) Purchase tickets at www.goldentigersports.com	Tuskegee University TU Football Stadium
5:00 pm – 7:00 pm	Exhibit Set up	Montgomery Renaissance Hotel & Spa Exhibit Hall A Foyer
6:00 pm – 9:00 pm	PAWC Registration	Montgomery Renaissance Hotel & Spa CC Registration Booth
6:30 pm – 9:00 pm	TU Forestry & Natural Resources Program – 55 th Anniversary Preconference Opening Reception	Montgomery Renaissance Hotel & Spa Exhibit Hall A
9:00 pm – 11:00 pm	FAB 51+ Professional Meet & Greet	Montgomery Renaissance Hotel & Spa Montgomery 7

SATURDAY, OCTOBER 28, 2023

- 8:00 am – 5:00 pm DAES Advisory Board Meeting- *Riverview 1*
- 8:00 am – 8:00 pm Tomorrow's Agricultural Professional Symposium
High School & Junior MANRRS Alabama Leadership Institute -
Tuskegee University, Henderson Hall
- 12:00 pm – 3:00 pm TU Forestry & Natural Resources Program Tailgate –
TU Football Stadium
- 1:00 pm – 4:00 pm Tuskegee University Football Game – *TU Football Stadium*
- Please purchase your tickets online at
www.goldentigersports.com.**
- 5:00 pm – 7:00 pm Exhibit Set up – *Renaissance Exhibit Hall Foyer*
- 6:00 pm – 9:00 pm PAWC Registration – *Renaissance Convention Center
Registration Booth*
- 6:30 pm – 9:00 pm TU Forestry & Natural Resources Program – 55th Anniversary
Opening Reception – ***Renaissance Exhibit Hall A***
- *Pre-registration is required***
- 9:00 pm – 11:00 pm FAB 51+ Professional Meet & Greet – *Montgomery 7*

Sunday, October 29, 2023

AGENDA AT A GLANCE

7:00 am – 1:00 pm	TU Forestry & Natural Resources Program 55 th Anniversary Program	Montgomery Renaissance Hotel & Spa Exhibit Hall A Riverview 2 Riverview 4 Riverview 6
8:00 am – 5:00 pm	Center for Farming Systems, Rural Prosperity & Economic Sustainability (CFSRPES) Symposium	Montgomery Renaissance Hotel & Spa Montgomery 7 Riverview 7 Riverview 8
9:00 am – 4:45 pm	Tomorrow's Agricultural Professional Symposium (High School)/Junior MANRRS Alabama Leadership Institute	Tuskegee University Henderson Hall
9:00 am – 6:00 pm	PAWC Special Sessions	Montgomery Renaissance Hotel & Spa Montgomery 1 Montgomery 9 Riverview 1 Riverview 3 Riverview 5
11:00 am – 12:00 pm	TU Campus Tour I Walking tour will depart from the BTW Monument*	Tuskegee University BTW Monument
10:00 am – 1:00 pm	PAWC Exhibit Setup	Montgomery Renaissance Hotel & Spa Exhibit Hall Foyer
10:00 am – 4:00 pm	Legacy Museum & National Memorial for Peace and Justice Tour (on your own)	Montgomery
10:00 am – 6:00 pm	PAWC Conference Registration	Montgomery Renaissance Hotel & Spa CC Registration Booth

REVISITING OUR ROOTS: UNLOCKING THE POWER OF AGRICULTURE

11:00 am – 4:45 pm	Tomorrow's Agricultural Professional Symposium Collegiate	Tuskegee University Henderson Hall
12:00 pm – 1:00 pm	TU Campus Tour II *Walking tour will depart from the BTW Monument*	Tuskegee University BTW Monument
12:00 pm – 5:00 pm	GSD Student Competition	Tuskegee University Kenney Hall
	Graduate Oral	Kenney Hall 205 Kenney Hall 208
	Graduate Poster	Kenney Hall 207
	Undergraduate Oral	Kenney Hall 201 Kenney Hall 211
	Undergraduate Poster	Kenney Hall 210
1:00 pm – 2:00 pm	TU Campus Tour III *Walking tour will depart from the BTW Monument*	Tuskegee University BTW Monument
2:00 pm - 6:00 pm	PAWC Exhibit Hall Opens	Montgomery Renaissance Hotel & Spa Exhibit Hall Foyer
6:00 pm – 8:00 pm	MANRRS & Student Award Banquet (Open to all registered attendees)	Montgomery Renaissance Hotel & Spa Exhibit Hall A
9:00 pm – 11:00 pm	PAWC Professional Meet & Greet	Hospitality Suite

SUNDAY, OCTOBER 29, 2023

7:00 am – 1:00 pm TU Forestry & Natural Resources Program 55th Anniversary

Main Session *Exhibit Hall A*
 Session I & IV *Riverview 2*
 Session II & V *Riverview 4*
 Session III & VI *Riverview 6*

8:00 am – 5:00 pm Center for Farming Systems, Rural Prosperity & Economic Sustainability (CFSRPES) Symposium II
 (Closed session – Invitation Only)

Breakfast & Lunch *Montgomery 7*
 Breakout A *Riverview 7*
 Breakout B *Riverview 8*

9:00 am – 4:45 pm Tomorrow's Agricultural Professional Symposium
 (High School)/Junior MANRRS Alabama Leadership Institute - *Tuskegee University Henderson Hall*

9:00 am – 6:00 pm PAWC Special Sessions (Closed Sessions – Invitation Only)
 Session 1 *Montgomery 1*
 Session 2 *Montgomery 2*
 Session 3 *Montgomery 9*
 Session 4 *Riverview 1*
 Session 5 *Riverview 5*

10:00 am – 1:00 pm PAWC Exhibit Setup – *Exhibit Hall Foyer*

10:00 am – 4:00 pm Legacy Museum & National Memorial for Peace and Justice Tour

**Tickets can be purchased at <https://legacysites.eji.org> **

10:00 am – 6:00 pm PAWC Conference Registration – *CC Registration Booth*

11:00 am – 12:00 pm Tuskegee University Campus Tour I – *Tuskegee University*

Walking tour will depart from the BTW Monument

REVISITING OUR ROOTS: UNLOCKING THE POWER OF AGRICULTURE

11:00 am – 4:45 pm Tomorrow's Agricultural Professional Symposium Collegiate Program – *Tuskegee University Henderson Hall*

12:00 pm – 1:00 pm Tuskegee University Campus Tour II – *Tuskegee University*

Walking tour will depart from the BTW Monument

12:00 pm – 5:00 pm Gamma Sigma Delta Student Competition – *Tuskegee University*

Graduate Oral I – Kenney Hall 205

Graduate Oral II – Kenney Hall 208

Graduate Poster – Kenney Hall 207

Undergraduate I – Kenney Hall 201

Undergraduate II – Kenney Hall 211

Undergraduate Poster – Kenney Hall 210

1:00 pm – 2:00 pm Tuskegee University Campus Tour III – *Tuskegee University*

Walking tour will depart from the BTW Monument

2:00 pm – 6:00 pm PAWC Exhibit Hall Opens – *Exhibit Hall Foyer*

6:00 pm – 8:00 pm MANRRS Student Recognition & Award Banquet – *Exhibit Hall A*

9:00 pm – 11:00 pm PAWC Professional Meet & Greet – *Hospitality Suite*

Monday, October 30, 2023

AGENDA AT A GLANCE

7:00 am – 8:00 am	Breakfast	Exhibit Hall A
7:30 am – 5:00 pm	PAWC Registration	Convention Center Registration Booth
7:30 am – 6:00 pm	PAWC Special Sessions (Invitation Only)	Riverview 5
8:00 am – 10:00 am	Opening Plenary Part I: Fireside Chat with Jim Embry Part II: Farm Bill Updates	Exhibit Hall A
10:00 am – 10:30 am	Refreshment Break & Visit with Exhibitors	Exhibit Hall Foyer
10:30 am – 12:00 pm	Breakout Sessions I	See Below
Session 1	Meat & Poultry Technical Assistance Program Training, Part I	Montgomery 6
Session 2	Culinary Nutrition – Embracing Plant Based Living, Part I (limit to 25 participants)	Montgomery 9
Session 3	Climate, Carbon, and Private Forestlands: What Does the Future Hold?	Riverview 1
Session 4	Achieving Equity in the Policy Arena: How the Farm Bill Can Unlock the Power of Agriculture in the Black Belt Region?	Riverview 2
Session 5	Innovative Strategies for Growing Vegetables	Riverview 4
Session 6	Investing in our Future- Youth Development	Riverview 3
12:00 pm – 1:30 pm	L.A. Potts Success Stories	Exhibit Hall A
1:45 pm – 3:00 pm	Breakout Sessions II	See Below
Session 7	Meat & Poultry Technical Assistance Program Training, Part II	Montgomery 6
Session 8	Culinary Nutrition – Embracing Plant-Based Living, Part II (limit to 25 participants)	Montgomery 9
Session 9	Using Crop Insurance to Manage Risk	Riverview 1
Session 10	Health, Wellness, and Nutrition	Riverview 2
Session 11	Strength from the Soil	Riverview 4
Session 12	Assistance for Minority Farmers	Riverview 3
3:00 pm – 3:45 pm	Professional Poster Session Break & Visit with Exhibitors	Exhibit Hall Foyer
3:45 pm – 5:00 pm	Breakout Sessions III	See Below
Session 13	Special Presentation: (Movie Screening)	Exhibit Hall A
Session 14	Meat & Poultry Technical Assistance Program Training, Part III	Montgomery 6
5:30 pm – 7:00 pm	TU Urban Ag Center Reception & Wine Tasting	TU Urban Ag Center
7:30 pm- Until	Dinner on your own	

MONDAY, OCTOBER 30, 2023

Renaissance Montgomery Hotel and Spa

7:00 am – 8:00 am	Breakfast – <i>Exhibit Hall A</i>
7:30 am – 5:00 pm	Registration – <i>Convention Center Registration Booth</i>
8:00 am – 10:00 am	Opening Plenary – <i>Exhibit Hall A</i>

Presiding:
Karla Hollis, USDA

Invocation

Christopher Mathis, University of Arkansas at Pine Bluff

Greetings & Welcome from Tuskegee University

Olga Bolden-Tiller, Tuskegee University

Greetings & Recognition of the 81st PAWC Advisory Board

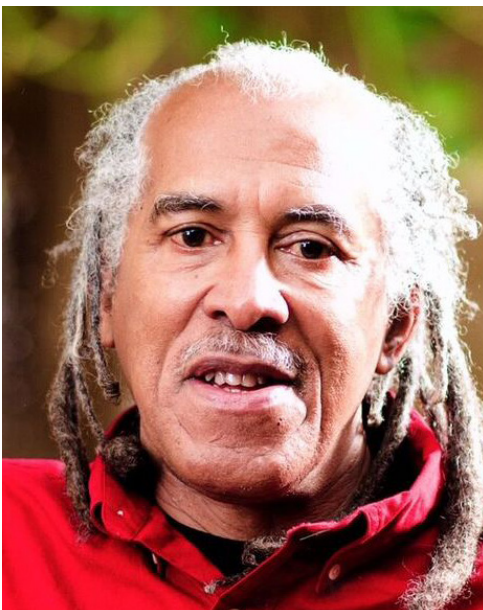
John Williams, PAWC Advisory Board Chair

Part I: Revisiting Our Roots: Unlocking the Power of Agriculture & Community with Jim Embry, 2023 James Beard Foundation Leadership Award Winner

Moderated by Tasha Hargrove, Tuskegee University

&

Willie Torrey, Cross Culture Community Farm



The grandson of small farmers who were also social activists, Jim's activism began in 1959 when he was ten years old and a member of the Congress of Racial Equality. During the Civil Rights Movement, Jim began a lifelong mission and passion for social justice. Since then, Jim has participated in almost all of his era's major social justice movements. After 50+ years of activism, his current work and writings seek to restore our sacred connections with Mother Earth while creating a socially just and sustainable world that reflects and shares the highest ideals of being human. Jim believes a local, healthy, and just food system is the foundation of a sustainable community. His international travel has included Brazil for the World Social Forum, Italy for five Terra Madre/International Slow Food Gatherings, Cuba for the Worker's Confederation, and numerous Caribbean islands for scuba diving. Jim moved to a 30-acre family farm four years ago and now tries to balance community activism and writing with soil activism!

Unlocking the Power of Agriculture & Communities – Lightning Talks

Sandra Simone, Huckleberry Farms
 Ashley Griffin, My Black is Golden
 Khiquita. Young, Kiara Farm
 Willie Torrey, Cross Culture Community Farm

Part II: Farm Bill Updates

Moderated by:
 Rodney Stone, USDA

Presenters:
 Rodney Brooks, U.S. House Committee on Agriculture
 Eloris Speight, SDFR Policy Research Center

Recognition of Special Guests

Olga Bolden-Tiller, Tuskegee University
 ▪ *Counselor Zhang Yun, Embassy of the People's Republic of China in the United States*
 ▪ *Paul Edwards, USAID*
Agriculture Higher Education, USAID & Agriculture and Forestry University Nepal

Recognition of Sponsors

Tasha Hargrove, Tuskegee University

10:00 am – 10:30 am Break & Visit with Exhibitors – *Exhibit Hall Foyer*

10:30 am – 12:00 pm Breakout Sessions I

SESSION#	ROOM	TITLE
1	Montgomery 6	Meat & Poultry Technical Assistance Program Training, Part I
2	Montgomery 9	Culinary Nutrition – Embracing Plant Based Living, Part I
3	Riverview 1	Climate, Carbon, and Private Forestlands: What Does the Future Hold?
4	Riverview 2	Achieving Equity in the Policy Arena: How the Farm Bill Can Unlock the Power of Agriculture in the Black Belt Region?
5	Riverview 5	Innovative Strategies for Growing Vegetables
6	Riverview 6	Investing in our Future – Youth Development

MONTGOMERY 6**Session 1: Meat & Poultry Technical Assistance Program Training, Part I**

Moderator: Jonice Watts, Tuskegee University

Description: Know what it takes to run a successful meat or poultry processing operation! The Tuskegee University MPPTA program is proud to offer insights to establish new or enhance existing meat and poultry processing operations. Join experts from across the country to learn about the INs and OUTs as well as the UPs and DOWNs of this sector for which \$1B was recently allocated. Then WINE down at the TU Urban Ag Center to experience the wonders of value-added products associated with industry, including a wine tasting as well as tour mobile processing unit (poultry/red meat)!

MONTGOMERY 9**Session 2: Culinary Nutrition –****Embracing Plant-Based Living, Part I**

Moderator: Rhonda Benton, Rhema Ranch

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



Description: In this engaging workshop, we invite you to embark on a culinary journey toward a healthier and more sustainable lifestyle. Whether you're a seasoned plant-based enthusiast or just beginning to explore the world of vegan and vegetarian cuisine this workshop is designed to inspire and educate. Through hands-on demonstrations, participants will gain confidence in the kitchen and learn how to prepare two delectable recipes. This workshop is limited to 25 participants.

RIVERVIEW 1**Session 3: Climate, Carbon, and Private Forestlands: What Does the Future Hold?**

Moderator: Rashidah Farid, Tuskegee University

Presenters:

- Forestry Research & Extension Education
Gamal El Afandi, Tuskegee University and Elliott Washington, Prairie View A & M University
- Forest Owner Carbon and Climate Education (FOCCE) Program
Melissa Kreye, Penn State University
- USFS Forest Stewardship, Climate – Smart Grants Program
Amadou Diop, USDA Forest Service State and Private Forestry, Southern Region
- Climate – Smart Forestry Discussion
Gamal El Afandi, Tuskegee University, Elliott Washington, Prairie View A & M University, Melissa Kreye, Penn State University, and Amadou Diop, USFS

RIVERVIEW 2

Session 4: Achieving Equity in the Policy Arena: How the Farm Bill Can Unlock the Power of Agriculture in the Black Belt Region?

Moderator: Raymon Shange, Tuskegee University

Presenters: Raymon Shange, Tuskegee University; Jerry Pennick, SAAB; Gloria Tinubu, SAAB; Dalal Alkordi, SAAB; Monyai Chavers, SSAB

Description: The purpose of this session is to provide a historical perspective on the Farm Bill and its impact positive and negative- on African Americans in the Black Belt Region. The focus will be on the following three critical sectors - health, food, and the environment - and how they intersect with agriculture. The goal is to introduce policymakers, advocates, local leaders, and 1890 Universities to CISC's second "State of African Americans in the Black Belt Region's" annual report and get their input for the 2004 report. The workshop will present the attendees with a research-based analysis of the BBR along with specific policy recommendations that could help African-American farmers and their communities better exert and benefit from the power of agriculture.

RIVERVIEW 4

SESSION 5: Innovative Strategies for Growing Vegetables

Moderator: Victor Khan, Tuskegee University

- The Effect Of Five Pruning Methods On The Height Of Okra (*Abelmoschus Esculentus* (L.) Moench.) Transplants Grown In Containers

Justin Tate, Tuskegee University; George Hunter, Tuskegee University; Antoinette Pulliam, Tuskegee University; Edward Sparks, Tuskegee University; Jeffery Moore, Tuskegee University; James Currington, Currington Associates; James Currington III, Currington Associates; R. Johnson, Sr. Tuskegee University; and Victor Khan, Tuskegee University

- Evaluation Of A Wiregrass Tunnel House Grower's Harvest Management On The Yield Of Three Collard (*Brassica Oleracea* (L.)) Varieties

George Hunter, Tuskegee University; Edward Sparks, Tuskegee University; Justin Tate, Tuskegee University; Antoinette Pulliam, Tuskegee University; Jeffery Moore, Tuskegee University; James Currington, Currington Associates; James Currington III, Currington Associates; R. Johnson, Sr., Tuskegee University; and Victor Khan, Tuskegee University

- Field Evaluation of Small Producers Practice of Broadcasting Turnips (*Brassica rapa* (L.)) and Mustard Green (*Brassica juncea* (L.)) Seeds vs. Planting in Rows

Antoinette Pulliam, Tuskegee University; George Hunter, Tuskegee University; Justin Tate, Tuskegee University; Edward Sparks, Tuskegee University; Jeffery Moore, Tuskegee University; James Currington, Currington Associates; James Currington III, Currington Associates; R. Johnson, Sr., Tuskegee University; and Victor Khan, Tuskegee University

RIVERVIEW 3

Session 6: Investing In Our Future: Youth Development

Moderator: Lonnie Hobbs, Kansas State University

Presenters:

- Emerging Partnership: Michigan Tech University Opportunities for Graduate Study
David Flaspohler, Michichan Technological University and Gabriel Escobedo, Michigan Technological University
- An Evaluation of Student Perceptions of Diversity in the College of Agriculture
Zelia Wiley, Kansas State University; Summer Santillana, Kansas State University; Raymond Thomas, Kansas State University; Lonnie Hobbs, Jr., Kansas State University; and Andrew Barkley, Kansas State University.

12:00 pm – 1:30 pm L.A. Potts Success Stories Luncheon – *Exhibit Hall A*

Presiding: *Miles Robinson, Tuskegee University*

Invocation

William Hodge, Tuskegee University

Welcome & Greetings

Raymon Shange, Tuskegee University

Lunch

Recognition of Success Stories

Catrina Hoffman, Tuskegee University

Recognition of Sponsors & Special Guests

Barrett Vaughan, Tuskegee University

1:45 pm – 3:00 pm Breakout Sessions II

SESSION#	ROOM	TITLE
7	Montgomery 6	Meat & Poultry Technical Assistance Program Training, Part II
8	Montgomery 9	Culinary Nutrition – Embracing Plant Based Living Part II
9	Riverview 1	Using Crop Insurance to Manage Risk
10	Riverview 2	Health, Wellness, and Nutrition
11	Riverview 4	Strength from the Soil
12	Riverview 3	Assistance for Minority Farmers

MONTGOMERY 6

Session 7: Meat & Poultry Technical Assistance Program Training, Part II

Moderator: Gerard Jefferson, Tuskegee University

Description: Know what it takes to run a successful meat or poultry processing operation! The Tuskegee University MPPTA program is proud to offer insights to establish new or enhance existing meat and poultry processing operations. Join experts from across the country to learn about the INs and OUTs as well as the UPs and DOWNs of this sector for which \$1B was recently allocated. Then WINE down at the TU Urban Ag Center to experience the wonders of value-added products associated with industry, including a wine tasting as well as tour mobile processing unit (poultry/red meat)!

MONTGOMERY 9

Session 8: Culinary Nutrition – Embracing Plant-Based Living, Part II

Moderator: Rhonda Benton, Rhema Ranch & PAWC Advisory Board Member

Presenter: *Fiona Lewis*, LLBJ Culinary and Wellness Enterprises, LLC

Description: In this engaging workshop, we invite you to embark on a culinary journey toward a healthier and more sustainable lifestyle. Whether you're a seasoned plant-based enthusiast or just beginning to explore the world of vegan and vegetarian cuisine, this workshop is designed to inspire and educate. Through hands-on cooking demonstrations, participants will gain confidence in the kitchen and learn how to prepare two delectable recipes. This workshop is limited to 25 participants.



RIVERVIEW 1

Session 9: Using Crop Insurance to Manage Risk

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

Presenter: Laurence M. Crane, National Crop Insurance Services

Description: An overview of crop insurance plans available will be presented, and the features of these plans will be reviewed and explain how they help farmers manage risk. Also

discussed will be the process of applying for insurance and how producers can locate an agent who can answer their questions.

RIVERVIEW 2

Session 10: Health, Wellness, and Nutrition

Moderator: Norma Dawkins, Tuskegee University

- **The Next Big Grain...Millet: Rich in Heritage-Full of Potential**
Eunice Bonsi, Tuskegee University and Abiodun Atoloye, Tuskegee University
- An Efficient And Cost-Effective Method Using Hrpzyme For Detection Of Vibrio Parahaemolyticu
Ali Parsaeimehr, Delaware State University and Gulnihal Ozbay, Delaware State University
- **Propagation Of *Moringa Oleifera* Trees Growing In Lorman, Mississippi**
Aundrea Coleman, Alcorn State University; Woodrow Clark, Alcorn State University; Amori Cruel, Alcorn State University; Frank Mrema, Alcorn State University; Chunquan Zhang, Alcorn State University; and Yan Meng, Alcorn State University

RIVERVIEW 4

Session 11: Strength From the Soil & Related Issues

Moderator: Frank Abrahamsen, Tuskegee University

- Integrating Cover Crops And Vegetable Production
Justin Duncan, National Center For Appropriate Technology
- Improving Soil Health & And Profitability Through Carbon Sequestration
Del Ficke, The Graze Master Group
- Estimating Organophosphate Pesticide Exposure Using Geographic Information (Gis) And Landsat Remote Sensing (Lrs)

Gamal El Afandi, Tuskegee University; Hossam Ismael, Tuskegee University; and Souleymane Fall, Tuskegee University

RIVERVIEW 3

Session 12: Assistance for Minority Farmers

Moderator: Henry English, University of Arkansas at Pine Bluff

- A Partnership Initiative for Minority Farmer Success
Zelia Wiley, Kansas State University; John Ella Holmes, Kansas Black Farmers Association; Lonnie Hobbs, Jr, Kansas State University; and S. Santillana, Kansas State University
- **Progress: Black Farmers Receive Help Through Federal and State Aid**
ChaNae' Bradley, Fort Valley State University, and Ervin Williams, Fort Valley State University
- **THE MOSES PROJECT**
Curtis Pitts, The Moses Project

3:00 pm – 3:45 pm Professional Poster Session, Break, and visit with Exhibitors –
Exhibit Hall Foyer

3:45 pm – 5:00 pm Breakout Sessions III

SESSION#	ROOM	TITLE
13	Exhibit Hall A	Special Presentation
14	Montgomery 6	Meat & Poultry Technical Assistance Program, Part III

EXHIBIT HALL A

SESSION 13: Special Presentation

MONTGOMERY 6

Session 14: Meat & Poultry Technical Assistance Program Training Part III

Moderator: Eboni Price, Tuskegee University

Description: Know what it takes to run a successful meat or poultry processing operation! The Tuskegee University MPPTA program is proud to offer insights to establish new or enhance existing meat and poultry processing operations. Join experts from across the country to learn about the INs and OUTs as well as the UPs and DOWNs of this sector for which \$1B was recently allocated. Then WINE down at the TU Urban Ag Center to experience the wonders of value-added products associated with industry, including a wine tasting as well as tour mobile processing unit (poultry/red meat)!

5:30 pm – 7:00 pm TU Urban Ag Center Reception & Wine Tasting

7:00 pm – Until Dinner on your Own

Tuesday, October 31, 2023

AGENDA AT A GLANCE

6:30 am – 8:00 am	PAWC Advisory Board Meeting	Montgomery 9
7:00 am – 8:15 am	Breakfast	Exhibit Hall A
8:00 am – 2:00 pm	Conference Registration	Convention Center Registration Booth
8:30 am – 10:45 am	Plenary Session	Exhibit Hall A
10:45 am – 11:15 am	Refreshment Break & Visit with Exhibitors	Exhibit Hall Foyer
11:15 am – 12:15 pm	Breakout Session IV	See Below
Session 15	Climate Smart Agriculture Practices: Overview and Opportunities for Farmers and Landowners	Montgomery 9
Session 16	USDA Discrimination Financial Assistance Program Technical Assistance Workshop I	Riverview 1
Session 17	USDA Discrimination Financial Assistance Program Technical Assistance Workshop II	Riverview 3
Session 18	Fostering Entrepreneurship in Rural and Urban Communities	Riverview 4
Session 19	Policy Strategies for Sustainable Food Production in Africa in the Twenty-First Century Panel Discussion	Riverview 2
12:30 pm – 2:15 pm	Memorial Luncheon	
2:30 pm – 4:30 pm	Breakout Session V	See Below
Session 20	Understanding Heirs Property	Riverview 4
Session 21	Issues Impacting Small Farmers	Riverview 5
Session 22	4 Your Health/ Food & Behavior Workshop	Montgomery 9
Session 23	USDA Farm Service Panel Discussion	Riverview 1
Session 24	Health, Wellness, and Nutrition	Riverview 2
4:30 pm – 5:00 pm	Break & Visit with Exhibitors	Exhibit Hall Foyer
6:00 pm – 8:00 pm	George Washington Carver Public Service Hall of Fame Awards Banquet	Exhibit Hall A

TUESDAY, OCTOBER 31, 2023

7:00 am – 8:00 am	PAWC Advisory Board Meeting – <i>Montgomery 9</i>
7:00 am – 8:00 am	Breakfast – <i>Exhibit Hall A</i>
8:00 am – 2:00 pm	Conference Registration – <i>CC Registration Booth</i>
8:30 am – 10:45 am	Plenary Session – <i>Exhibit Hall A</i>

Presiding:

Melvin Carter, USDA NIFA

Part I: Discrimination Financial Assistance Program (DFAP) Overview & Updates

Monica Rainge, USDA & Matt Bowman, The Windsor Group

Introduction of Speaker

Melvin Carter, USDA NIFA

Remarks from the Director of the National Institute of Food and Agriculture (NIFA)

Manjit K. Misra, USDA

Part II: Special Presentation

Moderating:

Olga Bolden-Tiller, Tuskegee University

- **MOU Signing Ceremony for MANRRS & the Federation of Southern Cooperatives Partnership**
- **Tuskegee University Integrative Public Policy and Development (IPPD) and the Federation of Southern Cooperatives Special Announcement**

10:45 pm – 11:15 am	Break and Visit with Exhibitors – <i>Exhibit Hall Foyer</i>
11:15 am – 12:15 pm	Breakout Session IV

SESSION #	ROOM	TITLE
15	Montgomery 9	Climate Smart Agriculture Practices: Overview and Opportunities for Farmers and Landowners
16	Riverview 1	USDA Discrimination Financial Assistance Program Technical Assistance Workshop I
17	Riverview 3	USDA Discrimination Financial Assistance Program Technical Assistance Workshop II
18	Riverview 4	Fostering Entrepreneurship in Rural and Urban Communities
19	Review 2	Policy Strategies for Sustainable Food Production in Africa in the Twenty-First Century

MONTGOMERY 9

Session 15: Climate-Smart Agricultural Practices: Overview & Opportunities For Farmers And Landowners

Moderator: Gamal El Afandi, Tuskegee University

- **Overview Of Climate Change and Mitigation Strategies**
Uma Karki, Tuskegee University
- **Alley-Cropping Of Fruits And Vegetables With Cover Crops To Promote Climate-Smart Agriculture**
Srinivasa Mentreddy, Alabama A & M University
- **Climate-Smart Agricultural Practices To Promote The Sustainability Of Small And Minority Farmers And Landowners**
Lila Karki, University of Maryland Eastern Shore

RIVERVIEW 1

Session 16: USDA Discrimination Financial Assistance Program Technical Assistance Workshop I

Moderator: Monica Rainge, USDA

Description: Section 22007 of the Inflation Reduction Act (IRA) directs USDA to provide financial assistance to farmers, ranchers, and land forest landowners who experienced discrimination in USDA's farm lending programs prior to January 1, 2021. This workshop is an opportunity to ask specific questions and provide technical assistance in completing the application.

RIVERVIEW 3

Session 17: USDA Discrimination Financial Assistance Program Technical Assistance Workshop II

Moderator: Matt Bowman, The Windsor Group

Description: Section 22007 of the Inflation Reduction Act (IRA) directs USDA to provide financial assistance to farmers, ranchers, and land forest landowners who experienced discrimination in USDA's farm lending programs prior to January 1, 2021. This workshop is an opportunity to ask specific questions and provide technical assistance in completing the application.

RIVERVIEW 4

Session 18: Fostering Entrepreneurship in Rural and Urban Communities

Moderator: Youssouf Diabate, Tuskegee University

- **Entrepreneurship While in College: Lessons Learned**
Emon Fowler, Tuskegee University
- **Developing Retail Sales Skills and Consumer Service at the IGA Supermarket I Hayneville, AL**
Shamirria Rudolph, Haynesville Central High School; S. Woodley, Haynesville Central High School, B. Grant, Tuskegee University; George Hunter, Tuskegee University and Victor Khan, Tuskegee University
- **Rehabilitating Discarded Boston Ferns (*Nephrolepis exalata* (L) and Growing Flowering Plants to Market**
Shar'DaJai Harris, Haynesville Alabama Central High School; S. H. Woodley, Hayneville Alabama Central High School, George Hunter, Tuskegee University; B. Grant, Tuskegee University; Miles Robinson, Tuskegee University; and Victor Khan, Tuskegee University

RIVERVIEW 2

Session 19: Policy Strategies for Sustainable Food Production in Africa in the Twenty-First Century

Moderator: Andrew Zekeri, Tuskegee University

Presenters:

- o Obianuju Egiebor; Tuskegee University
- o Nora Gogo-Kumi, Tuskegee University
- o Adole Paul, Tuskegee University
- o Kourtney Sherrod, Tuskegee University
- o Ivan Solomon, Jr., Tuskegee University

12:30 pm – 2:15 pm Dr. Jesse A. Morris, Sr. Memorial Recognition and Luncheon –
Exhibit Hall A

Presiding

Barrett Vaughan, Tuskegee University

Invocation

John Williams, USDA (retired)

Lunch

Presenter

Gwendolyn Lucas-Gordon, Alcorn State University

2:30 pm – 4:30 pm Breakout Session V

SESSION #	ROOM	TITLE
20	Riverview 4	Understanding Heir Property Part I
21	Riverview 5	Issues Impacting Small Farmers
22	Montgomery 9	4 Your Health/Food & Behavior Workshop
23	Riverview 1	USDA Farm Service Panel Discussion
24	Riverview 2	Health, Nutrition, and Wellness

RIVERVIEW 4

Session 20: Understanding Heirs Property

Moderator: Robert Zabawa, Tuskegee University

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

RIVERVIEW 5

Session 21: Issues Impacting Small Farmers

Moderator: Uma Karki, Tuskegee University

- **Barriers Faced By Socially Disadvantaged Farmers and Ranchers and Access to Capital - Policy Center Research Analyst Update**
Kara Woods, Socially Disadvantaged Farmers and Ranchers (SDFR) Policy Research Center (Policy Center)
- **Farmer's Preference For Building Capacity In Changing Agricultural Context**
Lila Karki, University of Maryland Eastern Shore, and Enrique Escobar, University of Maryland Eastern Shore

MONTGOMERY 9

Session 22: 4 Your Health/Food & Behavior Workshop

Moderator & Presenter: Marsha Thadison, Yesterday Kitchen 4 Today

RIVERVIEW 1

Session 23: USDA Farm Service Panel Discussion

Moderator: Karen Lee, University of Arkansas Pine Bluff

Panelists:

- Clifton L. Warren, Jr., Alabama State Executive Director
- Arthur L. Tripp, Jr., Georgia State Executive Director
- Ronald Howell, Jr., Virginia State Executive Director
- Doris Washington, Arkansas State Executive Director
- Thaddeus Fairly, Sr., Mississippi State Executive Director

RIVERVIEW 2

Session 24: Health, Wellness, and Nutrition

Moderator: Norma Dawkins, Tuskegee University

- **Evaluation Of Produce Safety Educational Resources Needs For Non-English Speaking Produce Growers In The Midwest**

Shannon M. Coleman, Iowa State University; Angelina Adjetey, Iowa State University; Smaranda Andrews, Iowa State University; Manreet Bhullar, Iowa State University; Londa Nwadike, Kansas State University; and Melissa Cater Louisiana State University

- **Bioactive And Cardiovascular Disease Protective Properties Of Wild Blueberries (*Vaccinium Angustifolium*)**

Deborah Omachi, Tuskegee University; Thaniyath Shahnaz, Tuskegee University; Norma L. Dawkin, Tuskegee University; and Brandon Gines, Tuskegee University

- **Approaches to Improve Nutrition and Health for the 21st Century and Beyond among Marginalized Individuals and Communities in Selected United States**

Renita Marshall, Southern University A & M College; De'Shoin York, Southern University A & M College; Norma Dawkins, Tuskegee University, Shengmin Sang, North Carolina Agricultural and Technical State University, Brittany Howard, Southern University and AM College Cornelius Jackson, and Evan Egana, Southern University, and AM College

- **Quantification Of Selected Phytochemicals In *Vigna Unguiculata* (Black-Eyed Beans) Beverage Using Nuclear Magnetic Resonance (Nmr) Spectroscopy**

Vanessa Njoku, Tuskegee University; Norma Dawkins, Tuskegee University; and Brandon Gines, Tuskegee University

- **Food Insecurity And Depressive Symptoms Among Black Mothers Living With Hiv/Aids On Antiretroviral Medication In Rural Alabama**

Andrew Zekeri, Tuskegee University; Obianuju Egiebor, Tuskegee University; And Paul Adole, Tuskegee University

4:30 pm – 5:00 pm Break & Visit with Exhibitors

6:00 pm – 8:00 pm George Washington Carver Public Service Hall of Fame
Awards Banquet

PROFESSIONAL POSTERS

- **A Comparison of Food and Nutrition Patterns in Costa Rica and the United States During Experiential Learning Activities**
 Melanie Jimmerson, Delaware State University; Faith Fantroy, Tuskegee University; Yahzamon Jackson, University of Maryland Eastern Shore; Samuel Besong, Delaware State University; Edgar Madriz, Centro Agronomico Tropical de Investigacion y Ensenaza (CATIE); Eliecer Vargas, Centro Agronomico Tropical de Investigacion y Ensenaza (CATIE); and Alberta Aryee, Delaware State University
- **Digital Agriculture K-12 Educator Workshop - Lessons in Creating a Digital Savvy Workforce**
 Ariel Polk, Tuskegee University; Joyce Hunter, Data Science Camp Inc.; Olga Bolden-Tiller, Tuskegee University.
- **Evaluating the Effects of Hempseed Meal Supplementation on the Performance and prevalence of HAEMONCHUS CONTORTUS on Boer X Spanish Castrated Male Goats**
 Santosh Chaudhary, Tuskegee University
- **Exploring the Microbial Safety of Oysters and Seawaters from Sally Cove in Rehoboth Bay, Delaware**
 Kelvin Fynn Ofori, Delaware State University
- **Increasing Underrepresented Minority (URM) Participation in High Biocontainment Laboratory Careers: Outcome Assessment of the NBAF Laboratorian Training Program at Tuskegee University**
 James W. Mungin, Jr., Tuskegee University, and Olga Bolden-Tiller, Tuskegee University
- **Navigating Differences, Cultural Competency, Training, Extension**
 Zelia Wiley, Kansas State University; Lonnie Hobbs, J., Kansas State University; Summer Santilla, Kansas State University; and Raymond Thomas, Kansas State University
- **Preliminary Studies: Green Algal Diversity In Tuskegee, AL**
 Matyia Ross, Tuskegee University and Chinyere Knight, Tuskegee University
- **Using Algal Turf Technology to Remove Access Nutrients And Evaluate Biomass Potential**
 Kayla McKinley, Delaware State University; Grant Blank, Delaware State University; Ali Parasaeimehr, Delaware State University
- **Water Quality Assessment of Cosmic Dust Deposition in Municipal and Terrestrial Water Sources**
 Travis Burrell, Tuskegee University; B. Ahmed, Tuskegee University; and K. Overton, Tuskegee University

The 2023 GAMMA SIGMA DELTA 81st PAWC STUDENT RESEARCH COMPETITION

Gamma Sigma Delta – PAWC Competitive and Non-Competitive Presentations

COMPETITIVE: UNDERGRADUATE POSTERS

1. *EXPERIENCING THE THRIVING AGRIBUSINESS OF COSTA RICA.* HOBSON-GLADNEY, ZURI¹, O. Bowles², A. Matthews³, E.O. Vargas⁴, E.M.M. Alvarado⁴, Kwame Matthews¹ (Faculty Advisor), Marikis Alvarez¹. ¹Delaware State University, ²Tuskegee University, ³University of Maryland Eastern Shore, ⁴CATIE, Turrialba, Costa Rica

Presenter: **HOBSON-GLADNEY, ZURI**

2. *GLOBAL EXPERIENTIAL LEARNING-UNDERSTANDING AGRICULTURE'S IMPORTANCE TO COSTA RICAN CULTURE.* GRANT, KAYLA¹, K. McDaniel¹, M. Honesty³, N. Rufai⁴, E. Bonsi (Advisor)¹, N. Dixit³, S. Tubene³, E.O. Vargas⁴, E.E.M.M. Alvarado⁴, ¹Delaware State University, ²Tuskegee University, ³University of Maryland-Eastern Shore and ⁴CATIE, Turrialba, Costa Rica

Presenter: **GRANT, KAYLA**

3. *CONSERVATION AND WISE USE OF LAND, WATER, WILDLIFE, AND RELATED RESOURCES IN THE STATE OF ARKANSAS.* HENDERSON, CORTEZ, and Henry English (Small Farm outreach programs), University of Arkansas at Pine Bluff

Presenter: **HENDERSON, CORTEZ**

4. *IMPROVING SWEET POTATO PRODUCTION IN ARKANSAS: UAPB SWEETPOTATO FOUNDATION SEED PROGRAM.* ROCHFORD, CHE L.Z¹, R.A. Williams², and S.A. Francis³. ¹Department of Agriculture, ²Industrial Technology Management and Applied Engineering Department, ³Outreach and Technology Transfer, University of Arkansas at Pine Bluff

Presenter: **ROCHFORD, CHE L.Z**

5. *SEASONAL COMPARISON OF WATER QUALITY PARAMETERS IN WATER SOURCES LOCATED IN TUSKEGEE, ALABAMA.* OVERTON, KAMERYN¹, B. Smith^{1,2}, and R. Whittington³, D. Alexander^{1,2,3,4*}. ¹Dept. of Ag and Environmental Sciences College of Agriculture Environment and Nutrition Sciences¹, ²Integrative Biosciences PhD Program, and Cooperative Extension, ³Dept. of Biology, College of Arts and Sciences, ⁴Dept. of Pathobiology College of Veterinary Medicine, Tuskegee University.

Presenter: **OVERTON, KAMERYN**

6. *CHARACTERIZATION OF BISON WALLOW HYDROLOGY, SOIL MORPHOLOGY, AND SOIL CARBON STOCKS.* SPARROW, QUENTIN¹ and C. Moorberg². ¹Dept. of Ag. and Envi. Sciences, Tuskegee University, Tuskegee, AL 36088, ²Dept. of Agronomy, Kansas State University, Manhattan, KS

Presenter: **SPARROW, QUENTIN**

7. *SHOULD CONSUMERS PURCHASE HIGHER-QUALITY GROUND BEEF TO PREVENT ILLNESS RISK?* ENGRAM, CLIM and C. Harris. Department of Agricultural and Environmental Sciences Tuskegee University

Presenter: **ENGRAM, CLIM**

8. *TESTING LIPID NANOPARTICLES FOR pDNA DELIVERY INTO TOMATO CELLS.* PERRY, KOHL^{1,2}, R. Kumar¹, A. Rangamani², J. Bùl¹, C. Alabi², and J. Van Eck^{1,3}. ¹Boyce Thompson Institute, Ithaca, NY 14853; ²Corteva Agriscience, Johnston, IA, ³Section of Plant Breeding and Genetics, School of Integrative Plant Sciences, Cornell University.

Presenter: **PERRY, KOHL**

COMPETITIVE: UNDERGRADUATE ORAL PRESENTATIONS

9. *GLOBAL EXPERIENTIAL LEARNING -THE ISSUES OF AGROFORESTRY PRACTICES IN COSTA RICA.* ALLEN, CAMERON¹, M. Sama², V. Debosse³, A.S. Kumi², E.O. Vargas⁴, E. Bonsi², E.E.M.M. Alvarado⁴. ¹Delaware State University, ²Tuskegee University, ³University of Maryland-Eastern Shore and ⁴CATIE, Turrialba, Costa Rica

Presenter: **ALLEN, CAMERON**

10. *GLOBAL EXPERIENTIAL LEARNING: FOOD AND NUTRITION DIVERSITY IN COSTA RICA.* MELANIE JIMMERSON¹, Y. Jackson², F. Fantroy³, S. Besong¹, E.O. Vargas⁴, E.E.M.M. Alvarado⁴ and A.N.A. Aryee¹. ¹Dept. of Human Ecology, Delaware State University, ²Dept. of Agriculture, Food and Resource Science, University of Maryland Eastern Shore, ³Dept. of Ag. and Envi. Sciences, Tuskegee University, ⁴Centro Agronómico Tropical de Investigación y Enseñanza (CAITE), Costa Rica

Presenter: **JIMMERSON, MELANIE**

11. *PROCESSING BATHYMETRIC DATA TO MAP AND DISCOVER BENTHIC COMMUNITIES IN THE GULF OF MEXICO.* COLEMAN, MAKYA J.¹, D. Marco², M. Leonardo², A. Agno², and O. Idehen¹. ¹College of Ag., Envi. and Nutri. Sciences, Tuskegee University, Tuskegee, AL 36088, ²Hydrographic Science Research Center, University of Southern Mississippi, Stennis Space Center, MS

Presenter: **COLEMAN, MAKYA J**

12. *ASSESSING FOOD INSECURITY IN OKLAHOMA: SOCIO-ECONOMIC FACTORS AND INTERVENTION STRATEGIES.* REAGOR, MCKINLEY¹, K. Gosh¹, F. Bradford¹, A. Compere². ¹Sherman Lewis School of Agriculture and ²School of Business, Langston University

Presenter: **REAGOR, MCKINLEY**

13. *CHARACTERIZING HOUSEHOLD SOURCE-SEPARATED ORGANIC WASTE AND ITS IMPACT ON SOIL ENZYME ACTIVITY.* STOKER, FELICIA¹. M. Egnin¹, O. Idehen¹, G.C. Bernard¹, P. Okoma¹, I. Ritte¹, A. Brown¹, P. King². ¹College. of Ag., Envi., & Nutri. Sciences, and ²College of Arts and Sciences, Tuskegee University

Presenter: **STOKER, FELICIA**

14. *PHYTOCHEMICALS: ORGANIC DEFENSE MECHANISM.* DAY, SHARDAE' A., Cobb Lawerance. College of Agriculture, Environmental & Nutritional Sciences, Tuskegee University

Presenter: **DAY, SHARDAE' A.**

15. *MACHINE LEARNING AND HABITAT MAPPING OF BAY SCALLOPS.* JONES, IMANI¹, S. Majkut², J. Rademacher³, C. Roman². ¹Dep. Of Animal and Poultry Sciences, Tuskegee University, ²University of Rhode Island- Bay Campus, ³Boston University

Presenter: **JONES, IMANI**

16. *MONITORING SWEET POTATO VIRUSES FOR BEAUREGARD UNDER CONTROLLED CONDITIONS.* CAMPBELL, CARVIS¹ and Sathish Ponniah², University of Arkansas at Pine Bluff, Department of Agriculture, Fisheries and Human Sciences

Presenter: **CAMPBELL, CARVIS**

17. *EVALUATING TEMPERATURE INFLUENCE ON HHQ IN PHYTOPLANKTON.* ANGELETTI, DHEAVEN A.¹, O. Idehen¹, L. Harper², H. Reich², R. Quadara³, M. Gary³. ¹College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, ²Department of Biological Science, University of New Hampshire, ³Department of Marine Recourses, University of Southern Mississippi

Presenter: **ANGELETTI, DHEAVEN A.**

18. *THE DISCOVERABILITY AND ACCESSIBILITY OF SOIL HEALTH MANAGEMENT SYSTEMS FOR COTTON GROWERS.* WHITE, MORGAN D., M.C. Bagnall, and D. Flores. N. Soil Health Institute, Morrisville, NC

Presenter: **WHITE, MORGAN D.**

19. *SOURCE-SEPARATED ORGANIC WASTE COMPOSITIONAL ANALYSIS AND EFFECTS ON SOIL MICROBIAL ACTIVITY.* KING, PHILLI¹. M. Egnin², O. Idehen², G. C. Bernard², P. Okoma², I. Ritte², A. Brown², F. Stoker². ¹College of Arts & Sciences, ²College. of Ag., Envi., a& Nutri. Sciences, Tuskegee University

Presenter: **KING, PHILLI**

20. *FINDING MY PLACE IN RESEARCH: LOOKING DEEP INTO THE MIRROR AND OPENING THE WINDOW OF MY OWN PERSONAL AND ACADEMIC GROWTH.* ZAPATA, GUADALUPE¹, O. Idehen¹, S. Fagbodun¹, R. Quadara², M. Gary², A. DeCiccio³, ¹Dept. of Ag. and Envi. Sciences, Tuskegee University, ²Marine Science Education Center, University of Southern Mississippi, ³Graduate School of Oceanography, University of Rhode Island

Presenter: **ZAPATA, GUADALUPE**

21. *UNDERSTANDING THE SURVIVAL RATE OF SWEET POTATO SLIPS IN ARKANSAS FIELD CONDITIONS.* WARNER, T. KIEDRON and Sathish Ponniah. University of Arkansas at Pine Bluff, Department of Agriculture, Fisheries and Human Sciences

Presenter: **WARNER, KIEDRON T.**

22. *CHARACTERIZATION OF FUNGAL ISOLATES FROM INFECTED SQUASH (CUCURBITA SPP.) PLANTS IN SOUTHWEST MISSISSIPPI.* FRITZGERALD, ARIEL, F. Mrema (advisor), D. Collins, F. Chukwuma, T. Rashid, R. Butler, M. Gaspard, R. Hooper, T. Clifton. Dept. of Agriculture, Alcorn State University

Presenter: **FRITZGERALD, ARIEL**

23. *OPTIMIZATION OF PEARL MILLET FLOUR FORMULATION FOR WHEAT BREAD ENRICHMENT: A COMPARATIVE STUDY OF DIFFERENT MILLING TECHNIQUES.* HALL, ELISSA¹, S. Kaliramesh². ¹Dept. of Food and Nutritional Sciences, Tuskegee University, Tuskegee, AL 36088, ²Dept. of Grain Science and Industry, Kansas State University

Presenter: **HALL, ELISSA**

COMPETITIVE: GRADUATE POSTERS

24. *EVALUATING THE EFFECTS OF HEMPSEED MEAL SUPPLEMENTATION ON THE PERFORMANCE AND PREVALENCE OF Haemonchus contortus ON BOER×SPANISH CASTRATED MALES GOATS.* SANTOSH CHAUDHARY, K. Ale, F. Abrahamsen (Advisors), N.K. Gurung. Tuskegee University

Presenter: **CHAUDHARY, SANTOSH**

25. *EFFECT OF GANODERMA LUCIDIUM (MEDICINAL MUSHROOM) EXTRACTS ON ADULT FEMALE SPANISH GOATS' HEALTH PARAMETERS.* HENRIETTA OWUSU^{1*}, Maxwell Muriuki³, Emmanuel Asiamah². University of Arkansas, Pine Bluff

Presenter: **OWUSU, HENRIETTA**

26. *FUNGAL INHABITING STEMS OF PINUS TAEDA: DIVERSITY, ECOLOGICAL SIGNIFICANCE, AND IMPLICATIONS FOR SILVOPASTURE TREE HEALTH.* JEAN LOUIS CYUMA, F. Mrema, F. Chukwuma, D. Collins, and V. Njiti. Department of Agriculture, Alcorn State University

Presenter: **CYUMA, JEAN LOUIS**

27. *ARTIFICIAL INTELLIGENCE IN LAND DEGRADATION.* K.S. GOPI ANANTH¹ and Aavudai Anandhi². ¹College of Ag and Food Sciences, ²Biological Systems Engineering Dep, Florida A&M University

Presenter: **ANANTH, GOPI K.S.**

28. *ELUCIDATING THE INFLUENCE OF DROUGHT ON ENDOPHYTIC BACTERIAL DIVERSITY IN ROOTS OF COMMON BEAN (PHASEOLUS VULGARIS L.) USING PCR-BASED TECHNIQUES.* WILLIAMS, KRYSTAL¹, M. Subramani¹, C.A. Urrea², A. Todd^{1*}, G. Ozbay¹ (Faculty Advisors). ¹Molecular Genetics & Epigenomics Laboratory, College of Agriculture, Science & Technology (CAST), Delaware State University; ²Panhandle Research Extension and Education Center, University of Nebraska,

Presenter: **WILLIAMS, KRYSTAL**

29. *PLOWING BEYOND PREJUDICE: A CRITICAL EXAMINATION OF THE CONSTITUTION AND ITS APPLICATION TO RACE-CONSCIOUS GOVERNMENT ACTION FOR BLACK FARMER RELIEF IN FAUST V. VILSACK.* WILLIAM, GASPARD JR. and J. Thrower, Southern University Law Center, Baton Rouge

Presenter: **WILLIAM, GASPARD J.R.**

30. *EXPLORING THE MICROBIAL SAFETY OF OYSTERS AND SEAWATER FROM SALLY COVE IN REHOBOTH BAY, DELAWARE.* OFORI, KELVIN F.¹, A. Parsaeimehr², W. Long III¹, and G. Ozbay^{1,2}. ¹Department of Human Ecology, and ²Department of Agriculture and Natural Resources, College of Agriculture, Science, and Technology, Delaware State University

Presenter: **OFORI, KELVIN F.**

31. *LITERATURE REVIEW: STATUS OF MICRO-CREDENTIALS AS A MEANS FOR PROFESSIONAL ADVANCEMENT FOR MINORITY GROUPS.* GUTIERREZ DIAZ, SARA, J. Quansah, R. Chen, and S. Fall. Dept. of Ag. and Envi. Sciences, Tuskegee University

Presenter: **GUTIERREZ DIAZ, SARA**

32. *IMPACT OF COMMUNITY GARDENING ON BUILDING CAPACITY, HOUSEHOLD FOOD SECURITY, AND REDUCING GREENHOUSE GAS EMISSIONS.* DIPENDRA GURUNG, L.B. Karki (Advisor), P. Bhandari, and S. Ojha. University of Maryland Eastern Shore

Presenter: **GURUNG, DIPENDRA**

33. *LITERATURE REVIEW: ADOPTION OF COVER CROP PRACTICES AMONG MINORITY AND SOCIALLY DISADVANTAGED FARMERS.* OLAKANMI, ENIOLA E., J. Quansah. and D. Mortley. Dept. of Ag. and Envi. Sciences, Tuskegee University
Presenter: **OLAKANMI, ENIOLA E.**
34. *COMPARATIVE ASSESSMENT OF BIOACTIVE PROPERTIES IN CUCURBITACEAE AND CONVULVULACEAE PLANT LEAVES.* SULTAN, TASBIDA and S. Islam, Department of Agriculture, University of Arkansas at Pine Bluff
Presenter: **SULTANT, TASBIDA**
35. *WATER USE EFFICIENCY IN CROP PRODUCTION AND CLIMATE CHANGE IN SENEGAL, AFRICA.* **SARAVANAN, ACKSHAYA MUTHU**¹, AAVUDAI ANANDHI². ¹School of the Environmental Sciences; ²Associate professor, School of the Environmental Sciences, Florida A&M University
Presenter: **SARAVANAN, ACKSHAYA MUTHU**
36. *RESISTANCE TO CRITICALLY IMPORTANT ANTIMICROBIAL DRUGS IN ESCHERICHIA COLI ISOLATED FROM THREE FOOD ANIMALS (CATFISH, CATTLE AND GOAT) IN ALABAMA.* SOKU, YESUTOR K., Abdelrahman Mohamed. Dept of Pathobiology, CVM, Tuskegee University
Presenter: **SOKU, YESUTOR K.**
37. *ETIOLOGY AND PATHOGENESIS OF RIFT VALLEY FEVER: SYSTEMATIC REVIEW.* ASANTE, ZENZELE, BS^{1,2}, J. Mungin, O. Bolden-Tiller². ¹Dept. of Engineering, Kansas State University, ²Dept. of Ag. and Envi. Sciences, Tuskegee University
Presenter: **ASANTE, ZENZELE**
38. *DEVELOPING A SWEET POTATO BASE MEDIUM FOR THE GROWTH AND CULTIVATION OF LACTOBACILLUS.* EDDIN ABDULHAKIM SHARAF¹, P.J Yeboah¹, and S.A. Ibrahim¹ (Faculty Advisor). ¹Food and Nutritional Sciences Program, North Carolina A&T State University
Presenter: **EDDIN, ABDULHAKIM SHARAF**
39. *LIVAMOL WITH BIOWORMA REDUCED THE GASTROINTESTINAL NEMATODE EPG IN NURSING KIKO DOES RAISED IN PASTURES.* DHAKAL, DURGA P^{1*}, U. Karki¹, S. Chaudhary², and S. Lamsal. ¹College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, ²Department of Veterinary and Biomedical Sciences, Pennsylvania State University
Presenter: **DHAKAL, DURGA P.**
40. *FATTY ACID PROFILES IN HUMAN BREAST MILK: A COMPARISON OF ANALYTICAL TECHNIQUES.* THORNTON, EBONY K.¹, B. Hardy², K. Subedi², R.C. da Silva¹, H. Colleran,^{1*} (Faculty Advisor). ¹Dept. of Family and Consumer Sciences, ²College of Agricultural and Environmental Sciences, North Carolina Agricultural and Technical State University
Presenter: **THORNTON, EBONY K.**
41. *CLIMATE SMART AGRICULTURAL PRACTICES (CSAPS) AND THEIR SUSTAINABLE IMPACT ON THE ENVIRONMENT: A REVIEW.* ERNSUZE DECLAMA¹, and Aavudai Anandhi² ¹School of the Environment, FSH Science Research Center, ²Biological Systems Engineering, Florida Agricultural and Mechanical University, Benjamin Bannekar Tech C
Presenter: **DECLAMA, ERNSUZE**

42. *THE INFLUENCE OF DIFFERENT PROPORTIONS OF SPENT MUSHROOM SUBSTRATE ON GREENHOUSE GAS EMISSION AND IN VITRO BATCH CULTURE OF CORN SILAGE.* ANOTAENWERE, CHIKA C.¹, I. Omoanghe², M. Wuaku¹, J. Alabi¹, O. Adelusi¹, O. Deborah¹, P. Dele and U. Anele¹ (Advisor), ¹Dept. of Animal Sciences, ²Department of Natural Resources and Environmental Design, North Carolina Agricultural and Technical State University

Presenter: **ANOTAENWERE, CHIKA C.**

43. *EVALUATING EXTRACTION EFFICIENCY OF SOLVENTS ON HEMP PHYTOCHEMICAL COMPOUNDS FOR USE AS BIOPESTICIDE.* KANYAIRITA, GETRUDE G.^{1,3}, D.G. Mortley¹, and W. Collier². ¹Dept. of Ag. and Envi. Sciences, and ²Dept of Chemistry, ³Integrative Biosciences, Tuskegee University

Presenter: **KANYAIRITA, GETRUDE G.**

44. *USE OF COSMIC DUST TO EVALUATE ITS POTENTIAL IN GROWTH AND DEVELOPMENT OF WATERMELON SEEDLING.* UWAMAHORO, HILARIE, G. Kanyairita, M. Hilaire, and D. Alexander. Integrative Biosciences, Tuskegee University

Presenter: **UWAMAHORO, HILARIE**

45. *INTERACTIVE EFFECTS OF HIGH TEMPERATURE AND VARIETY ON RHIZOSPHERE ENZYME ACTIVITIES OF SWEET POTATO DURING EARLY GROWTH STAGE.* MWAZEMBE, DEVOTHA, D. Mortley, J. Quansah, O. Idehen, R. Ankumah, R. Shange, and S. Fall. Department of Agriculture and Environmental Sciences, Tuskegee University

Presenter: **MWAZEMBE, DEVOTHA**

46. *UNDERSTANDING THE ANTIMICROBIAL MECHANISMS OF SOLUTIONS AGAINST SALMONELLA IN GROUND CHICKEN.* JEFFERSON, GERARD and C. Harris. Department of Agricultural and Environmental Sciences, Tuskegee University

Presenter: **JEFFERSON, GERARD**

47. *UTILIZING AN "OMICS" APPROACH TO UNDERSTANDING THE EFFECT OF HAEMONCHUS CONTORTUS INFECTION ON THE COLOSTRUM COMPOSITION OF EWES.* SOLA, IKUEJAMOYE-OMOTORE¹, M. Harrison², A. Mills-Widemon², J. Adebayo³, and Z. Estrada-Reyes. Department of Animal Science, North Carolina Agricultural and Technical State University

Presenter: **SOLA, IKUEJAMOYE-OMOTORE**

48. *INVESTIGATING THE MOLECULAR MECHANISM OF ANTIBIOTIC RESISTANCE IN SALMONELLA WITHIN ALTERNATIVE POULTRY FEEDING APPROACHES.* NYARKU, REJOICE E.¹, K. Bentum¹, R. Faraj¹, and W. Abebe¹. ¹Center for Food Animal Health, Food Safety and Food Defense, Dept. of Pathobiology, College of Veterinary Medicine, Tuskegee University

Presenter: **NYARKU, REJOICE E.**

COMPETITIVE: GRADUATE ORAL PRESENTATIONS

49. *THE PREDATION OF HERPETOFAUNA DUE TO THE PRESENCE OF FERAL HOGS.* HARDY, CARLOS A. L.. Rashidah Farid Dept. of Ag. and Envi. Sciences, Tuskegee University

Presenter: **HARDY, CARLOS A. L.**

50. *UNDERSTANDING ESTRUS BEHAVIORS IN HOUSED DOES BY USING COMPUTER-BASED TRACKING TECHNOLOGY.* PETERSON, CHRISTIAN S.¹, J. Quansah¹, R. Chen¹, A. Green-Miller², O. Bolden-Tiller¹. ¹Department of Agriculture and Environmental Sciences, Tuskegee University, ²Department of Agriculture and Biological Engineering, University of Illinois at Urbana-Champaign

Presenter: **PETERSON, CHRISTIAN S.**

51. *THE IMPACT OF RACE AND REGION ON HEIRS PROPERTY IN THE RURAL SOUTH.* OBIANUJU, EGIEBOR. R. Zabawa, (Faculty Advisor). Dept. of Ag. and Envi. Sciences, Tuskegee University

Presenter: **OBIANUJU, EGIEBOR**

52. *THE ENVIRONMENTAL IMPACT OF PREDATION BY FERAL HOGS ON NATIVE WILDLIFE SPECIES IN TUSKEGEE UNIVERSITY RUSSELL EXPERIMENTAL FOREST.* DUNCAN, MAIYA D., D. Walker, A. Hardy, and R. Farid, Dept of Ag. and Envi. Sciences, Tuskegee University

Presenter: **DUNCAN, MAIYA D.**

53. *IDENTIFYING BLAST RESISTANCE GENES IN RICE VARIETIES PECOS AND M205.* JONTE'SHA B. Burnett and S. Ponniah. University of Arkansas at Pine Bluff, Department of Agriculture, School of Agriculture, Fisheries and Human Sciences

Presenter: **JONTE'SHA, BURNETT B.**

54. *UNDERSTANDING THE ROLE OF WEEDS IN THE SPREAD OF SWEET POTATO VIRUSES.* ELIJAH AGENE¹ and S. Ponniah², Dept. of Agriculture, University of Arkansas at Pine Bluff

Presenter: **AGENE, ELIJAH**

55. *GENETIC ANALYSIS OF THE EFFECT OF HIGH NIGHTTIME TEMPERATURE ON DEVELOPING RICE GRAIN.* DIPAK KHANAL¹, V. Srivastava², and S. K. Ponniah³. ¹Dep. of Agriculture, University of Arkansas at Pine Bluff, ²Crop, Soil and Environmental Sciences, University of Arkansas, Fayetteville

Presenter: **KHANAL, DIPAK**

56. *INVESTIGATION OF POLLINATOR DIVERSITY THROUGH MULTIPLE SEASONS BASED ON PLANT CHARACTERISTICS.* SOLOMON, ISAIAH K.¹, and Yong I. Park². Dept. of Agriculture, School of Agriculture, Fisheries and Human Sciences, University of Arkansas at Pine Bluff

Presenter: **SOLOMON, ISAIAH K.**

57. *FACTORS AFFECTING WILLINGNESS TO PARTICIPATE IN URBAN AGRICULTURE: A CASE OF MINORITY HOUSEHOLDS IN MARYLAND.* OJHA, SAHIL¹, Lila B. Karki (Faculty Advisor)², P. Bhandari², and D. Gurung². ¹ & ² University of Maryland Eastern Shore

Presenter: **OJHA, SAHIL**

58. *SYNERGISTIC EFFECTS OF ESSENTIAL OIL BLENDS AND FUMARIC ACID ON IN VITRO VOLATILE FATTY ACIDS PRODUCTION AND GREENHOUSE GAS EMISSION.* ALABI, JOEL O., and U.Y. Anele. Dept. of Animal Sciences, College of Agric. and Envi. Sciences, North Carolina A&T State University

Presenter: **ALABI, JOEL O.**

59. *EXAMINING THE BENEFITS OF STATE-SPONSORED MARKETING PROGRAMS AND SATISFACTION OF MEMBERS: A CASE IN MISSOURI.* ZADOK, ASAMOAH O.¹, Y. Su¹, S. Geleta¹. ¹Dept. of Ag. and Envi. Sciences, Lincoln University of Missouri

Presenter: **ZADOK, ASAMOAH O.**

60. *INTEGRATED MODELING APPROACH TO SUSTAINABLE AGRICULTURAL WATER MANAGEMENT WITHIN UNDERSERVED COMMUNITIES.* DORIA GARCIA, RUBEN¹, J. Quansah¹, S. Fall¹, and D. Mortley¹. ¹Dept. of Ag. and Envi. Sciences, Tuskegee University

Presenter: **DORIA GARCIA, RUBEN**

61. *EXAMINING BARRIERS TO RECREATIONAL FISHING AMONG PEOPLE OF COLOR IN ARKANSAS.* WILLIAMS-FIELDS, ANNETTE D.¹, and S. Lochmann². Dept. of Aqua/Fisheries, University of Arkansas at Pine Bluff

Presenter: **WILLIAMS-FIELDS, ANNETTE D.**

62. *EVALUATION OF HEMATOLOGICAL, BIOCHEMICAL, AND IMMUNE PROFILE IN PREGNANT EWES RAISED OUTDOOR VS. INDOOR DURING WINTER.* LAMSAL, SADIKSHYA^{1*}, U. Karki¹, S. Chaudhary¹², D. P. Dhakal¹, and B. Paneru¹³. ¹Dep. of Ag. and Envi.Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, ²Dep. of Veterinary and Biomedical Sciences, Pennsylvania State University, ³Dep. of Poultry Science, University of Georgia

Presenter: **LAMSAL, SADIKSHYA**

63. *UNDERSTANDING THE ENTREPRENEURIAL **ECOSYSTEM AND ITS IMPACT ON HYDROPONIC OPERATIONS** IN THE SOUTHEAST REGION.* OKAFOR, SUCCESS A.¹, C. Liang², Department of Agribusiness, Applied Economics and Agriscience Education, North Carolina A&T State University

Presenter: **OKAFOR, SUCCESS A.**

64. *THE EFFECTS OF PGF2 AND PGF2 PLUS GNRH ON ESTROUS BEHAVIOR AND PREGNANCY OUTCOMES IN DAIRY GOATS.* KOLIKAPONGU, RAMYA SRI, S. C. Namani, Arshad Shaik, A. Neha, S. C. Chelkapally, C.Perry, J. Woodard, M. Schauston, N. Whitley, B. Kouakou, A. R. Moawad (Advisor). Division of Animal Science, Faculty of Ag, Family Sciences and Technology, Fort Valley State University,

Presenter: **KOLIKAPONGU, RAMYA S.**

65. *IMPACTS OF SERICEA LESPEDEZA AND BLACK SEED MEAL DIETARY SUPPLEMENTATION ON SPERM QUALITY AND FERTILITY PARAMETERS OF MALE GOATS.* NAMANI, SHARATH CHANDRA, R. Kolikapongu, R. Heikal, S. C. Chelkapally, A. Neha, A. Shaik, A. A. Pech-Cervantes, N. C. Whitley, B. Kouakou, T. H. Terrill, A. R. Moawad (Advisor). Division of Animal Science, Faculty of Agriculture, Family Science and Technology, Fort Valley State University

Presenter: **NAMANI, SHARATH C.**

66. **PEPTIDOGLYCAN HYDROLASES AS ALTERNATIVES TO ANTIBIOTICS TO TREAT** *Staphylococcus aureus* INFECTIONS. GUDAPATI, SHARON¹, D. Donovan², M. Smeltzer³, D. Nelson⁴, and G. Ramena¹. ¹Department of Aquaculture and Fisheries University of Arkansas at Pine Bluff, ²Department of Biology, Morgan State University, ³University of Arkansas Medical School, Department of Microbiology and Immunology, Department of Orthopedic Surgery, Department of Veterinary Medicine, University of Maryland

Presenter: **GUDAPATI, SHARON**

67. **PROBIOTICS AND IMMUNOSTIMULANT SUPPLEMENTS EXHIBITS POSITIVE EFFECT ON GUT MICROBIOME AND EXPRESSION OF IMMUNE GENES ON WHITE LEG SHRIMP.** AYUSHMA SHARMA¹, Y. Ramena¹, K. Bohara¹, D. Chennault², E. Dwumfuor³ and G. Ramena¹. ¹Department of Aquaculture and Fisheries, ²Department of Agriculture, ³Department of Mathematics and Computer Science University of Arkansas at Pine Bluff

Presenter: **SHARMA, AYUSHMA**

68. **QUANTIFYING THE EFFECT OF SWEET POTATO VIRUSES ON DIFFERENT GENERATIONS OF THE BEAUREGARD VARIETY.** SHERMAINE J. CRITCHLOW¹ and S. Ponniah², University of Arkansas at Pine Bluff, Department of Agriculture, Fisheries and Human Sciences

Presenter: **CRITCHLOW, SHERMAINE J.**

69. **EFFECT OF MUSHROOM (GANODERMA LUCIDIUM) SUPPLEMENTATION ON GENE EXPRESSION OF BIOMARKERS OF IMMUNITY IN SPANISH GOAT BLOOD.** MKUNGA MAXWELL M¹, Asiamah E.K.²; Owusu H.³, ¹University of Arkansas at Pine Bluff

Presenter: **MKUNGA, MAXWELL M.**

70. **PERFORMANCE OF NEONATAL CALVES UNDER A DIRECT-FED MICROBIALS PROGRAM.** ADELUSI, OLU DOTUN O.¹, D. P. Casper^{1,2} and U. Y. Anele¹ (Advisor). ¹Dept. Animal Sciences, North Carolina Agricultural and Technical State University, Greensboro, ²Casper Calf Ranch,

Presenter: **ADELUSI, OLU DOTUN O.**

71. **INFLUENCE OF DIET ON MEAT QUALITY.** BLAIR, DANAÉ J., Harris, C. Dept. of Ag. and Envi. Sciences, Tuskegee University

Presenter: **BLAIR, DANAÉ J.**

72. **BODY CONDITION AND PRODUCTION STATUS IMPACTS ON ESTRUS INDICATORS IN BEEF CATTLE ON A PRODUCER FARM.** OLUWATOYIN OSUOLALE J. Arowolo, R. Kollkpong, S. Namani, N.C. Whitley, A.R. Moawad. Dept of Animal Sciences, Fort Valley State University

Presenter: **OSUOLALE, OLUWATOYIN**

73. **THE EFFECTS OF INTENSE TRAPPING ON THE MOVEMENT BEHAVIOR OF FERAL SWINE.** WALKER, DARIAN, C.A. Hardy, and M. Duncan. R. Farid (advisor). Dept. of Agriculture and Environmental Sciences, Tuskegee University

Presenter: **WALKER, DARIAN**

74. **USING ALGAL TURF TECHNOLOGY TO REMOVE ACCESS NUTRIENTS AND EVALUATE BIOMASS POTENTIAL.** KAYLA MCKINLEY, G. Blank, A. Parsaeimehr, and G. Ozbay (Advisor). ¹College of Agriculture, Science & Technology, Delaware State University

Presenter: **MCKINLEY, KAYLA**

75. *HISTIDINE SUPPLEMENTATION IN CULTURE MEDIUM AND ITS IMPACT ON THE GROWTH AND CELL VIABILITY OF LACTOBACILLUS DELBRUECKII SSP. BULGARICUS.* YEBOAH PHILIP J.¹, A.S. Eddin¹, L.L. Williams², and S.A. Ibrahim¹(Advisor). ¹Food and Nutritional Sciences Program and ²Center for Excellence in Post-Harvest Technologies, North Carolina A&T State University

Presenter: **YEBOAH, PHILIP J.**

NON-COMPETITIVE POSTERS

76. *REHABILITATING DISCARDED BOSTON FERNS (*Nephrolepis exaltata* (L)) AND GROWING FLOWERING PLANTS TO MARKET.* HARRIS, SHAR'DAJAI¹, S. H. Woodley², G. Hunter³, B. Grant³, M. Robinson³ and V. A. Khan^{3,4}. ¹Central High School Hayneville AL, ²Central High School, ³Student Advisor/Tuskegee University Extension, ^{3,4}Tuskegee University Extension/CAENS

Presenter: **HARRIS, SHAR'DAJAI**

77. *DEVELOPING RETAIL SALES SKILLS AND CONSUMER SERVICE AT THE IGA SUPERMARKET IN HANEYVILLE, AL.* RUDOLPH, SHAMIRRIA ¹, S. H. Woodley², B. Grant³, G. Hunter³, and V. A. Khan^{3,4}. ¹Central High School Hayneville AL, ²Central High School/ Student Advisor, ³Student Advisor/Tuskegee University Extension, ^{3,4}Tuskegee University Extension/CAENS.

Presenter: **RUDOLPH, SHAMIRRIA**

78. *THE MICROSCOPIC STRUCTURE OF COSMIC DUST AND ITS IMPACT ON THE GROWTH RATE OF MATURE IN-DOOR POTHOS (*EPIDENDRUM AUREUM*) PLANT.* DAMES, K., Sultana, N., and Alexander, D., Tuskegee University

Presenter: **DAMES, K.**

79. *USDA AGRICULTURAL MARKETING SERVICE.* WHITE, JAYA, Olga Bolden-Tiller. Dept of Ag. And Envi. Science, University of Tuskegee

Presenter: **WHITE, JAYA**

80. *AGRICULTURAL MARKETING INSGHT.* FINCH, DOMONIQUE¹, Olga Bolden-Tiller². ¹Dept. of Ag and Envi. Sciences, Tuskegee University

Presenter: **FINCH, DOMONIQUE**

81. *MARKET NEWS AND QUALITY ASSESSMENT IN THE USDA-AMS.* CARTER, BRIELLE J. College of Ag., Envi. And Nutritional Sciences, Tuskegee University, USDA-AMS, Des Moines, Iowa.

Presenter: **CARTER, BRIELLE J.**

82. *INTERNSHIP EXPERIENCE PRESENTATION: OFFICE OF THE DEPUTY ADMINISTRATOR, SPECIALTY CROPS PROGRAM.* BARROW, JESSICA and A. Little. College of Agriculture, Environmental, and Nutrition Sciences, Tuskegee University

Presenter: **BARROW, JESSICA**

83. *STARCH AND AMYLOSE INCLUSION COMPLEXES.* BOWE, CAYDEN D. and J. Kenar. United States Department of Agriculture, National Center for Agriculture Utilization Research, Peoria, IL. Faculty Advisor: Norma L. Dawkins College of Agriculture, Environment, Nutrition Sciences, Tuskegee University

Presenter: **BOWE, CAYDEN D.**

REVISITING OUR ROOTS: UNLOCKING THE POWER OF AGRICULTURE

84. *GREEN ALGAL DIVERSITY IN TUSKEGEE, AL.* ROSS, MATYIA and C. Knight. Experimental Mycology Laboratory, Department of Biology, Tuskegee University

Presenter: **ROSS, MATYIA**

85. *UNITED STATES DEPARTMENT OF AGRICULTURE, AGRICULTURAL MARKETING SERVICE FELLOWSHIP-SPECIALTY CROPS INSPECTION DIVISION IN PHILADELPHIA, PA SUMMER OF 2023.* MALOY, JOIDAN, N. Henderson, O. Bolden Tiller. Department of Agriculture and Environmental Sciences, Tuskegee University

Presenter: **MALOY, JOIDAN**

86. *AGRICULTURE MARKETING SERVICE STUDENT ENRICHMENT PROGRAM.* BRAYNON, HALI, Olga Bolden-Tiller. Dept. of Ag. And Envi. Sciences, Tuskegee University

Presenter: **BRAYNON, HALI**

87. *URBANIZATION'S EFFECT ON TREE DENSITY.* DYSON, MAKI. North Carolina State University and Tuskegee University

Presenter: **DYSON, MAKI**

GLOBAL AGRICULTURE AND AGRIBUSINESS CASE STUDY COMPETITION

88. **FOWLER, WILLIAMS, B. & JEFFERIES, T.** Agribusiness as a means of transmuting consumer behavior. College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University

89. **GRANT, K¹, BOWLES, O¹, & Z. HOBSON-GLADNEY².** Addressing supply shortages and bottlenecks in agricultural production: The case of minority and limited resourced farmers. ¹College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, ²College of Agriculture, Science, and Technology, Delaware State University

**TOMORROW'S AGRICULTURAL PROFESSIONAL SYMPOSIUM &
ALABAMA JR. MANRRS LEADERSHIP INSTITUTE**

**OCTOBER 28 – 29, 2023
at TUSKEGEE UNIVERSITY**

Saturday, October 28, 2023		
12:00 – 1:00 PM	Ticket Pick-up	Abbott Memorial Alumni Stadium
1:00 – 4:00 PM	Football Game Tuskegee University vs. Clark Atlanta University	Abbott Memorial Alumni Stadium
5:00 – 6:00 PM	Dinner	Tompkins Hall
6:00 PM	Registration & Check-In	Henderson Hall Lobby
6:30 PM	Welcome & Icebreaker	Henderson Hall Auditorium
6:45 PM	Artificial Intelligence: Agriculture in Motion	Henderson Hall Auditorium
8:00 PM	Jr. MANRRS Impromptu Speaking Contest	Henderson Hall – Rm 117
	How to Start a MANRRS Chapter	Henderson Hall – Rm 110
	Jr. MANRRS Leadership Activity	Henderson Hall Auditorium
9:00 PM	Depart to Montgomery for Lodging	Henderson Hall Lobby
Sunday, October 29, 2023		
8:00 AM	Depart to Tuskegee University	Renaissance Montgomery
9:00 AM	Opening Remarks	Henderson Hall Auditorium
9:15 AM	College Success Panel	Henderson Hall Auditorium
10:20 AM	Break	Henderson Hall Lobby
10:30 AM	MEAT Matters – Group A	Henderson Hall – 102
	Ag Careers: We Grow Money – Group B	Henderson Hall – 101
11:30 AM	Lunch/Brunch	Tompkins Hall
12:30 PM	Poster Sessions	Tompkins Hall
1:20 PM	Transition to Henderson Hall	
1:30 PM	MEAT Matters – Group B	Henderson Hall – 102
	Ag Careers: We Grow Money – Group A	Henderson Hall – 101
2:30 PM	Opportunities in Global Food Security – Group A	Henderson Hall – 102
	Food is Medicine, A Healthier You! – Group B	Henderson Hall
3:30 PM	Opportunities in Global Food Security – Group B	Henderson Hall – 102
	Food is Medicine, A Healthier You! – Group A	Henderson Hall
4:30 PM	Transition to Montgomery	Henderson Hall
6:00 PM	MANRRS Student Recognition and Award Banquet (Business Attire)	Renaissance Montgomery

**TOMORROW'S AGRICULTURAL PROFESSIONAL SYMPOSIUM
PROFESSIONAL DEVELOPMENT WORKSHOP FOR COLLEGIATES**

**OCTOBER 29, 2023
at TUSKEGEE UNIVERSITY**

Sunday, October 29, 2023		
11:00 AM	Registration & Check-In	Henderson Hall Atrium
11:30 AM	Welcome & Opening Remarks	Henderson Hall Auditorium
11:45 AM - 12:25 PM	IBM Skills Build	Henderson Hall Auditorium
12:30 - 1:10 PM	NBAF @ TU	Henderson Hall Auditorium
1:10 - 1:20 PM	Break	Henderson Hall Atrium
1:20 - 2:00 PM	A Successful Graduate Experience	Henderson Hall Auditorium
2:05 - 2:40 PM	Mental Toughness: Developing Resilience	Henderson Hall Auditorium
2:45 - 4:45 PM	Business Etiquette 101	Henderson Hall Auditorium
6:00 PM	MANRRS Student Recognition & Awards Banquet For MANRRS members. <i>To join, contact Dr. Harris at charris@tuskegee.edu</i>	Renaissance Convention Center

**TRANSPORTATION PROVIDED BETWEEN TUSKEGEE UNIVERSITY BOOKER T. WASHINGTON UNVEILING
STATUE AND RENAISSANCE MONTGOMERY CONVENTION CENTER**

REVISITING OUR ROOTS: UNLOCKING THE POWER OF AGRICULTURE

TU MPPTA at PAWC

Moderators: Jonice Watts, Gerard Jefferson and Eboni Price

Session 1, 10:30 am	Topic	Presenter
10:30	Welcome to Meat and Poultry Processing Technical Assistance at TU	Derris Burnett and Clarissa Harris, Tuskegee University
10:40	Overview of Meat and Poultry Processing (USDA-AMS)	Sara Hernandez, USDA-AMS
11:00	More Meat and Poultry Processing Opportunities (S-SARE)	Brennan Washington, S-SARE
11:20	The Road Less Travelled	David Martin, The Widget DTC, LLC
11:40	Workforce Development Needs...A Role for 1890 Land Grant Institutions	Clarissa Harris, Tuskegee University
12:00	LUNCH	
Session 2/3, 1:45 pm		
1:45	The Business of Business...It's More than a Notion	Darrell Tennie, The Tennie Group LLC
2:30	Getting Started...MPP Grants and Glory	Marshall Bartlett, Home Place Pastures
3:00	BREAK	
3:45	Opportunities for Beef Producers	Ralph Noble, South Carolina State University Handy Kennedy, HJK Ranch/Agri Unity
4:25	Mo' Meat, Mo' Money...Maximizing Markets	Robert Maddock, American Meat Science Association
5:00	Transition to Reception	
5:30-7:30pm	Reception, Value-Added	
5:30	Meat and Poultry Processing Tours (Poultry and Red Meat)	Steven Skelton, Kentucky State University
6:00	Artisanal Cheeses	Alan Hart, Windmill Acres Farm & Goat Milk Dairy, LLC
6:20	Wine and Wood	Marci Jones, Urban Connoisseurs
6:40	Nothing to Hide	Tim Armstrong, Consultant John Drew, Camp CARVER

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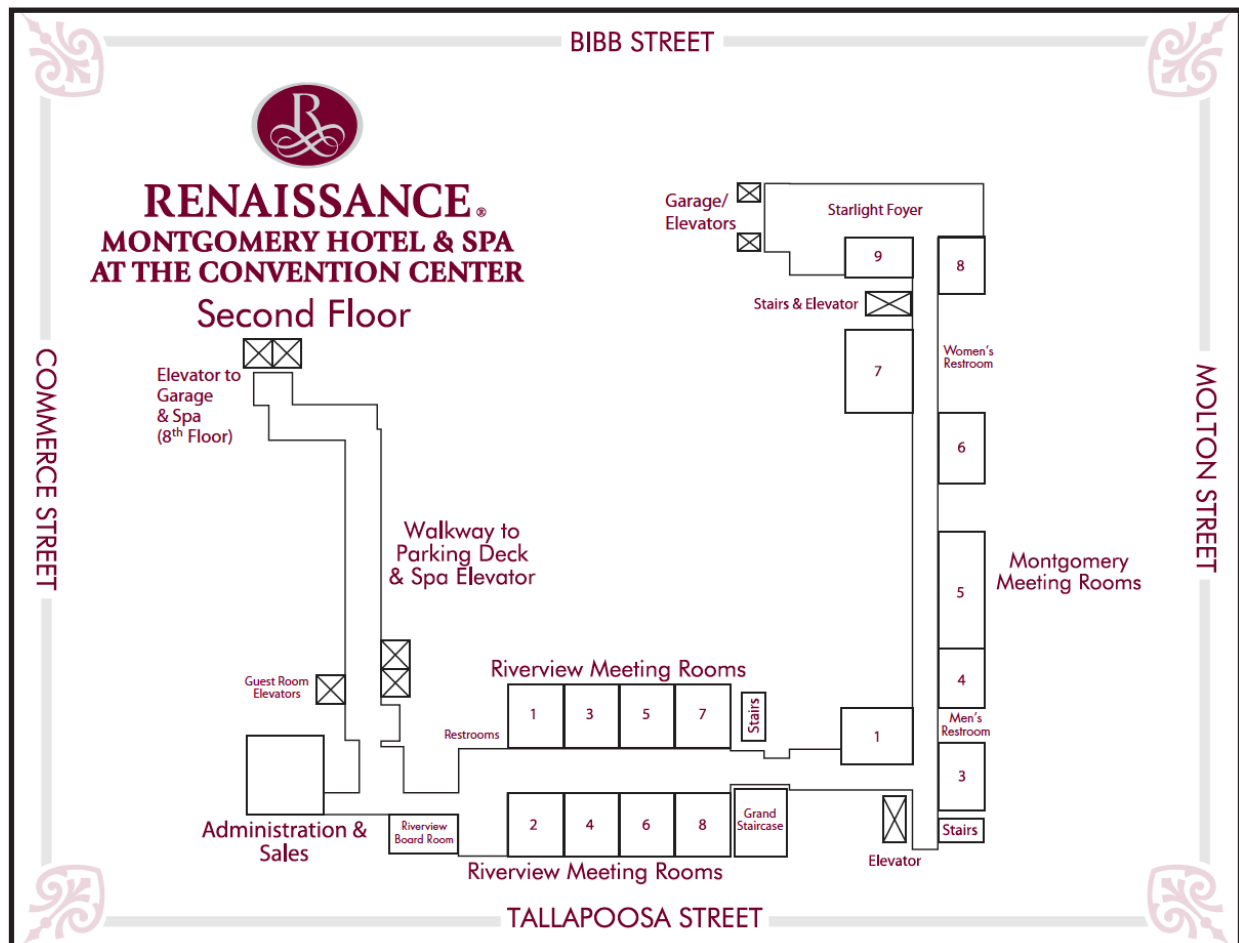
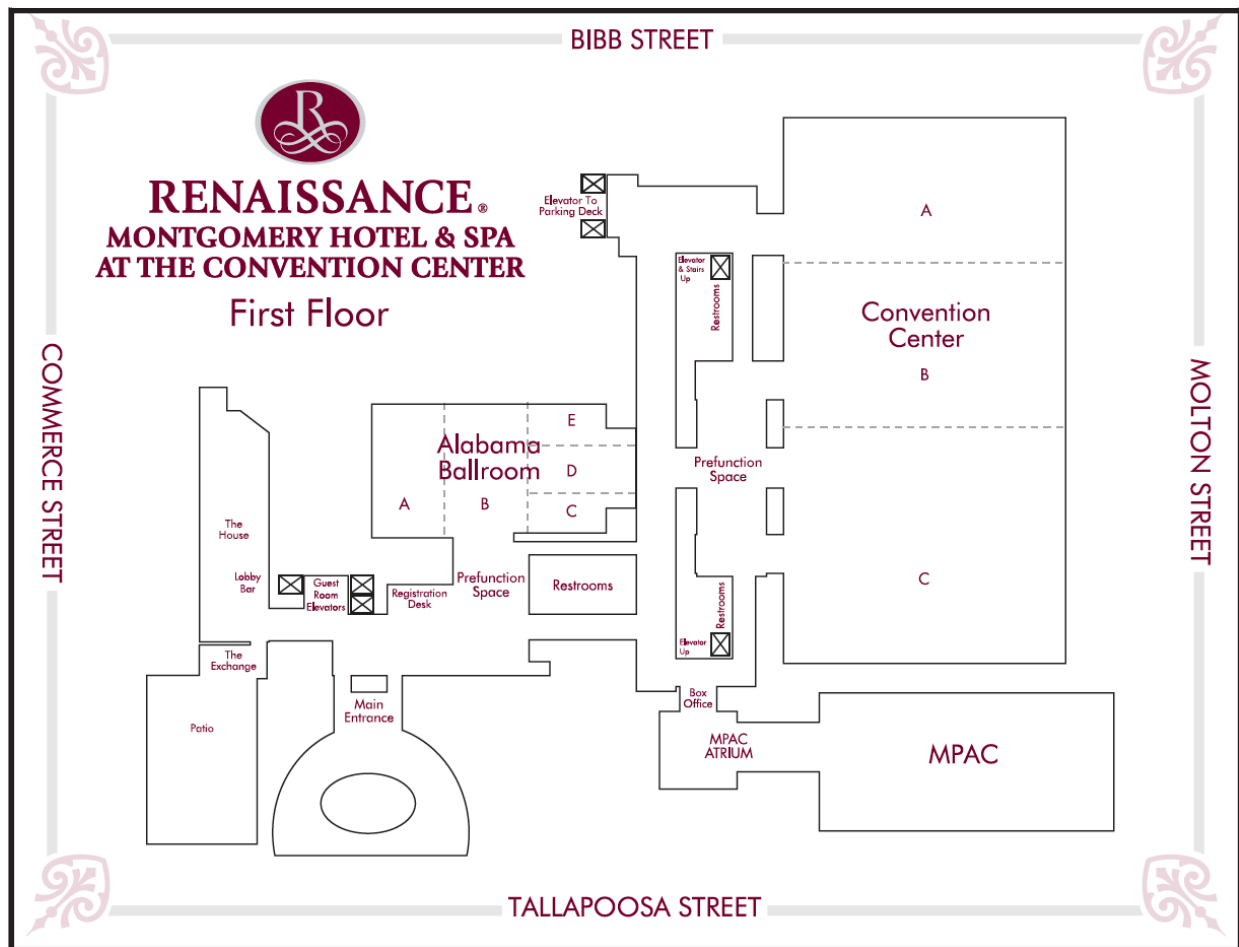
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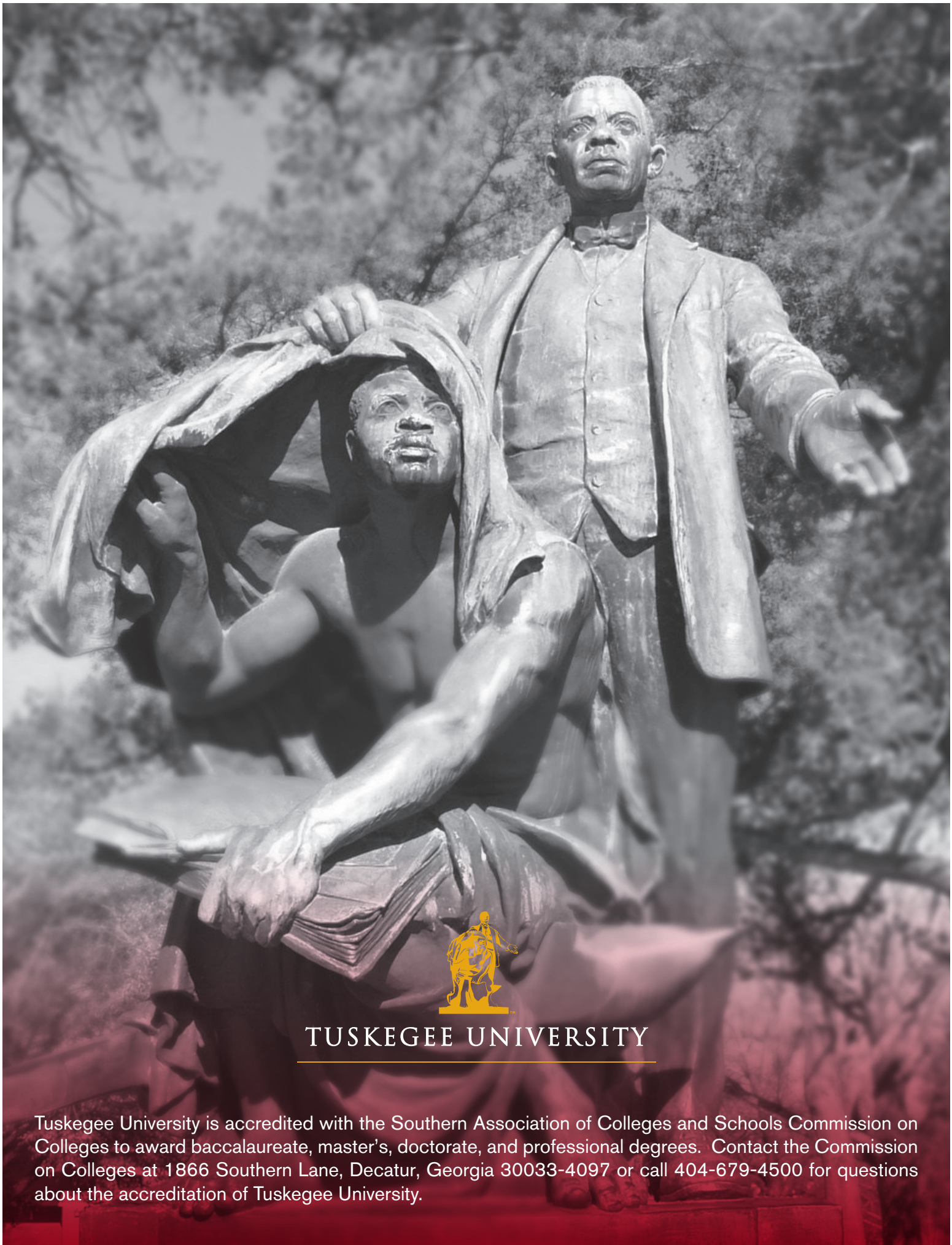
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Nii Tackie, Tuskegee University
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PAWC LOCAL PLANNING MEETING

Program:	Tasha Hargrove, Robert Zabawa, Raymon Shange, Walter Hill, & Olga Bolden-Tiller
Sponsorship:	Tasha Hargrove, Olga Bolden-Tiller, Robert Zabawa, & Walter Hill
Finance:	Shannon Payne, Elizabeth Whetstone, De Ambria Abner, & Tasha Hargrove
Registration:	Elizabeth Whetstone, Shannon Payne, Karen Craig, Shirley Brown, Wanda Carpenter-Morrow, De Ambria Abner, Tasha Hargrove, & Beverly Green
Help Desk:	Beverly Green, Elizabeth Whetstone, Shannon Payne, Doris Eaves, Karen Craig, Shirley Brown, Tiffani Williams, & De Ambria Abner
Posters:	Frank Abrahamsen, Beverly Green, Edward Gray, Tej Gautam, Clarissa Harris, & Barrett Vaughan
Exhibits:	Tiffani Williams, Karen Craig, & Tasha Hargrove
Student Presentations:	Lucy Asare-Baah, Marceline Egnin, Franklin Quarcoo, Norma Dawkins, Barrett Vaughan, Tiffani Williams, Gregory Bernard, Tasha Hargrove, Anthony Kumi, Robert Zabawa, Osagie Idehen, & Tuskegee University Chapter of Gamma Sigma Delta
Marketing:	Tasha Hargrove, Karen Craig, Olga Bolden-Tiller, & Tuskegee University Cooperative Extension Program
Technology & Website:	Peter Kanyi, Karen Craig, Doug Eaves, & Tasha Hargrove
Hospitality:	Miles Robinson, Barrett Vaughan, & Rodney Stone
TAPS:	Lakiah Clark, Janet Sullen, Clarissa Harris & Olga Bolden-Tiller
Logistics:	Lakiah Clark & Frank Abrahamsen
MANRRS:	Clarissa Harris, Brianna Bynum, & TU MANRRS Chapter
Special Sessions:	Rashidah Farid, Veronica Royal, & Tasha Hargrove
Awards:	Robert Zabawa, Olga Bolden-Tiller, Walter Hill, & Karen Craig
PAWC:	Tuskegee University Faculty, Staff, Students, & Cooperative Extension Program





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