

*78th Professional Agricultural Workers Conference
Disparities & Racial Injustices in Agriculture & Rural Communities: Ways Forward*

December 6 -8, 2020

SUNDAY, December 6, 2020 <i>*all times are in CST*</i>		
10:00 am -5:00 pm	Help Desk	
12:30 pm -5:00 pm	PAWC – GSD student Competition	
	Undergraduate Student Competition	
	Graduate Student Competition I Graduate Student Competition II Graduate Student Competition III	
	Tomorrow Agricultural Professional Symposium (TAPS)	
	TAPS for Pre-College Youth	
	TAPS for Collegiate: Unmanned Aerial Vehicle: Unmanned Aerial Vehicle (UAV)/Drone Applications in Wildlife Mitigation	
	1890 HBCU/Fire Consortium – Student Fire Training Program	
5:15 pm – 6:30 pm	Tuskegee University Christmas Concert	

Monday, December 7, 2020		
9:15 am – 10:00 am	78th PAWC Opening Session	
10:00 am – 10:45 am	Fireside Chat with Rev. Lennox Yearwood, Jr., HipHop Caucus	
11:00 am -11:45 am	Breakout Session I	
	Session 1: 1890 Land Grant University Centers of Excellence: Multi-University Models for Success	
	Session 2: Protecting Farm & Family: Emergency & Disasters Preparedness Resources for Producers	
	Session 3: A Review of Executive Order 13950 (Combatting Race & Sex) & Related Policies	
12:00 pm -12:45 pm	L.A. Potts Success Stories	
	Part I: Success Story Presentation Success Story 1: SRDC Heir Property Success Story 2: Tuskegee University	
	Part II: Special Presentation by She Did That Food by Dr. Fiona Lewis, Vegan Chef	
1:00 pm -1:45 pm	Breakout Session II	
	Session 4: Connecting Urban & Rural Forestry Communities: Challenges and Benefits	
	Session 5: Hemp and Marijuana: 1890 Land Grant University Perspectives	
	Session 6: COVID -19 Financial Planning	
2:00 pm – 3:00 pm	George Washington Carver Public Service Hall of Fame Award	
3:15 pm – 4:00 pm	PAWC Advisory Board Meeting	
4:00 pm – 4:45 pm	Virtual Happy Hour Featuring From the Soul Productions	

Tuesday, December 8, 2020		
9:30 am – 11:00 am	Fireside Chat with Leah Pennington, Soul Fire Farm	
11:15 am – 12:00 pm	Breakout Sessions III	
	Session 7: An Overview of the Socially Disadvantaged Farmers & Ranchers Policy Center	
	Session 8: Low-Resource Producers Focus Group: Understanding the Limitations of Seeking State & Federal Emergency Preparedness	
	Session 9: Agricultural Artificial Intelligence	
12:00 pm-1:00 pm	Soul Food as Healing & Memorial Presentation	
	Part I Memorial Presentation	
	Part II: Featured Presentation: Soul Food for Healing By Dr. Lindsey Lunsford	
1:00 pm – 1:45 pm	Breakout Session IV	
	Session 10: Conversations on Racial Disparities in Minority Health Care	
	Session 11: The Intersectionality of Racism, Globalization, and Climate Change with the Current Immigration and Humanitarian Crisis	
	Student 12: Student Spotlight & Announcement of the GSD Student Competition Winners	
2:00 pm – 3:00 pm	Breakout Session V	
	Session 13: Sustaining the Next Generation : Heir Property & Estate Planning	
	Session 14: Marketing with Myles Radio Show	
	Session 15: Farmer Cost Share Program for Sustainable Irrigation	
4:00 pm – 5:00 pm	Virtual Happy Hour Featuring From the Soul Productions	

SUNDAY, DECEMBER 6, 2020

- 10:00 am – 5:00 pm Help Desk**
- 12:30 pm- 5:00 pm PAWC – GSD Student Competition**
(detailed agenda provided at the end of program)
Undergraduate Student Competition
Graduate Student Competition I
Graduate Student Competition II
Graduate Student Competition III
- 1:00 pm – 5:00 pm Tomorrow’s Agricultural Professional Symposium (TAPS)**
TAPS for Pre-College Youth
(detailed agenda provided on last page)
TAPS for Collegiate: Unmanned Aerial Vehicle (UAV)/Drone Applications in Wildlife Mitigation
(detailed agenda provided at the end of program)
1890 HBCU/Fire Consortium – Student Fire Training Program
- 5:15 pm – 6:30 pm Tuskegee University Christmas Concert**
-

MONDAY, DECEMBER 7, 2020

9:15 AM – 10:00 AM

78th PAWC Opening Session

Host: John Williams & Tasha Hargrove

Invocation: *Gregory Gray*

Welcome: *Charlotte Morris, Interim President* (invited)

Greetings & Welcome from PAWC Leadership Team

- Tasha Hargrove
- Robert Zabawa
- Walter Hill
- Karen Craig
- John Williams

Recognition of Sponsors & Advisory Board Members: *Tasha Hargrove*

Virtual Speed Networking Session: *Tasha M. Hargrove*

Closing Comments & Instructions: *Tasha Hargrove*

10:00 AM – 10:45 AM

Fireside Chat with Rev. Lennox Yearwood, Jr., Hip Hop Caucus

Host: Lindsey Lundsford & Tasha Hargrove

11:00 AM – 11:45 AM

Breakout Session I

Session 1 1890 Land Grant University Centers of Excellence: Multi-University Models for Success

Moderator: *Mortimer Neufville*

Panelists:

- Socially Disadvantaged Farmers and Ranchers Policy Center- *Eloris Speight*
- Sustainable Meat Goat Production & Marketing in the Southeast United States – *Terry Gipson*
- The Center for Innovation and Sustainable Small Farms, Ranches, and Forestlands (CISFRF) – *Albert Essel*
- Reducing the Impact of SARS-Cov-2 and Related Disruptions on the Local Food Supply in Minority Communities in the 1890 Land Grant Regional Network – *Albert Essel*
- The Center of Excellence for International Engagement and Development (CEIED) – *Alton Thompson*
- The Virtual Center to Motivate and Educate for Achievement (MEA) - *Alton Thompson*

Session 2 Protecting Farm & Family: Emergency & Disasters Preparedness Resources for Producers

Moderator: *Rashidah Farid*

Session 3: A Review of Executive Order 13950 (Combatting Race & Sex) & Related Policies

Moderator & Host: *Robert Zabawa*

12:00 PM – 12:45 PM

L. A. Potts Success Stories

Host: *Raymon Shange*

Part I: Success Story Presentation

Success Story 1: SRDC Heir Property

Success Story 2: Tuskegee University

Part II: Special Presentation

She Did That Food

by

Fiona Lewis, Vegan Chef

1:00 PM – 1:45 PM

Breakout Session II

Session 4: Connecting Urban & Rural Forestry Communities: Challenges and Benefits

Moderator: *Wilhelmina Bratton*, USDA Forest Service

Panelist:

Beattra Wilson, USDA Forest Service

Elrand Denson, USDA Forest

Cherie Hamilton, USDA Forest

Session 5: Hemp and Marijuana: 1890 Land Grant University Perspectives

Moderator: *Orlando McMeans*, Southern University

Panelist:

Jana Snowden, Southern University

Shawn Lucas, Kentucky State University

Session 6: COVID-19 Financial Planning

Moderator: Candice Wright, The Tennie Group

Speaker: *Darrell Tennie*

2:00 PM – 3:00 PM

George Washington Carver Public Service Hall of Fame Award Presentations

Moderator: *Robert Zabawa*

GWC Address: Savonala Horne, North Carolina Association of Black Lawyers and Land Loss Prevention Project
Awardee:
Carver 1: TBA
Carver 2: TBA

3:15 PM – 4:00 PM

PAWC Advisory Board Meeting

4:00 PM – 4:45 PM

Virtual Happy Hour featuring From the Soul Productions

Tuesday, December 8, 2020

9:30 AM – 11:00 AM

Virtual Keynote & Fireside Chat with Leah Pennington, Soul Fire Farm

Moderator & Host: *Dawn Mellion-Patin*

11:15 AM -12:00 PM

Breakout Session III

Session 7: An Overview of the Socially Disadvantaged Farmers and Ranchers Policy Center

Moderator: *Cinda Ayers, Footprint Farms*

Speaker: *Eloris Speight*

Session 8: Low-Resource Producers Focus Group: Understanding the Limitations of Seeking State and Federal Emergency Preparedness Funds

Moderator: *Rashidah Farid, Tuskegee University*

Session 9: Agricultural Artificial Intelligence

Moderator: *Olga Bolden-Tiller, Tuskegee University*

12:00 PM – 1:00 PM

Soul Food as Healing & Memorial Presentation

Part I

Moderator: *M. Ray McKinnie, Virginia State University*

Part II: Soul Food for Healing

Moderator: *Catherine Barrett*

Introduction of Speaker: *Tia Perrot*

Speaker: *Lindsey Lunsford, Tuskegee University*

1:00 PM – 1:45 PM

Breakout Session IV

Session 10: Conversations on Racial Disparities in Minority Health Care

Moderator: *John Williams, USDA APHIS (retired)*

Session 11: The Intersectionality of Racism, Globalization, and Climate Change with the Current Immigration and Humanitarian Crisis

Moderator: *Raymon Shange*

Panelist:

Mikhiela Sherrod

Monyai Chavers

Sara Tekola

Session 12: Student Spotlight & Announcement of Student Competition Winners

Moderator: *Zelia Wiley, Kansas State University*

2:00 PM – 3:00 PM

Breakout Session V

Session 13: Sustaining the Next Generation: Heir Property and Estate Planning

Moderator: Robert Zabawa, Tuskegee University

Panelist:

Kara Woods

Conner Bailey

Savi Horne

Lorette Picciano

Session 14: Marketing with Myles Radio Show

Moderator: *Jerome Myles & Elizabeth Myles*

Session 15: Farmer Cost Share Program for Sustainable Irrigation

Moderator: *Sara Bolds*

4:00 PM – 5:00 PM

Virtual Happy Hour & Networking Session

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SOCIALLY DISADVANTAGED FARMERS
AND RANCHERS POLICY RESEARCH CENTER

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TAPS for Pre-College Youth

Sunday, 12/6/20 at 1PM-5PM

1:00	Opening	Janet Sullen	TUCEP
1:05	TAPS Overview & Welcome	Nyesa Gordon	TUCEP
1:15	FFA Career Finder Activity	Camryn Granger, Krystal Pyles, Nia Reeves	TU Students
2:00	Dairy Farm/Dairy Demo	TU Dairy Challenge Team with Lauren Mayo	TU Students
3:00	Break and Transition to TAPS for Collegiates Session		
3:15	Essentials of UAV applications in wildfire mitigation (TAPS for Collegiates Session)	Satyanarayan Dev	FAMU
4:00	Transition from TAPS for Collegiates Session		
4:10	Keynote Speakers	Candace Clark, Agriculture Something New...International Ag	TU, IPPD PhD Student
		Lauren Mayo, 2050 Challenge and You	TU, IBS PhD Student
4:55	Closing and Adjournment		
5:00	Impromptu Speaking Contest	Morgan Banks	MANRRS

TAPS for Pre-College Youth

Unmanned Aerial Vehicle (UAV)/Drone Applications in Wildfire Mitigation

Sunday, 12/6/20 at 3PM-5PM

1890 HBCU Fire Consortium - Student Fire Training Program - Orientation Workshop & Drone Symposium

3:00	Opening	Rashida Farid	TU
3:05	Overview of 1890 Wildland Fire Consortium	Darrius Truss	USDA-FS
3:15	Essentials of UAV applications in wildfire mitigation*	Satyanarayan Dev	FAMU
4:00	BREAK		
4:10	Advanced UAV techniques for wildfire mitigation	Satyanarayan Dev	FAMU
4:55	Wrap Up & Evaluation		
5:00	Partner Debrief		
5:30	Adjournment		

*May be joined by high school participants

COMMITTEES

Walter A. Hill, Tuskegee University PAWC Chair
Tasha M. Hargrove, Tuskegee University, PAWC Co-Chair
Robert Zabawa, Tuskegee University, Co-Chair
Karen Craig, PAWC Co-Chair
John Williams, USDA/APHIS (ret.), Chair PAWC Advisory Board

Advisory and Planning:

Catherine Barnett, Restaurant Opportunities Centers United, LLC
Rhonda Benton, Rhema Ranch
Sarah Bobrow-Williams, SRWI, and Bobrow-Williams Group, LLC
Wilhelmina Bratton, USDA/FS
William Buchanan, Farmer
Carl Butler, NetworkAG
Ralph Christy, Cornell University
Iris Cole-Crosby, University of Arkansas Pine Bluff
William A. Crutchfield, Virginia State University
Carlton Davis, University of Florida (retired)
Vivian Dickson, USDA/NRCS
Amadou Diop, US Forest Service
DeAnthony Hall, First Choice
Ronald Harris, USDA/NRCS
Rosalind Harris, University of Kentucky
Kathryn Hill, USDA/OC
Karla Martin Hollis, USDA/OAO, Fort Valley State University
Terrell Hollis, Fort Valley State University
Larry Holmes, USDA/NRCS (retired)
Ken Johnson, USDA/APHIS (retired)
Shelton Jones, Farm Foundation
Peter Kanyi, Tuskegee University
Lila, Karki, Tuskegee University
Lindsey Lunsford, Tuskegee University
Suchet Loois, Tuskegee University (Retired)
Dyremple Marsh, Delaware State University
Christopher Mathis, University of Arkansas Pine Bluff
Jimmy McAlpine, USDA/ARS
Donald McDowell, North Carolina A & T State University
Ray Mobley, Florida A & M University
Dawn Mellion-Patin, Southern University
Shannon Payne, Tuskegee University
Miles Robinson, Tuskegee University
Raymon Shange, Tuskegee University
Nii Tackie, Tuskegee University
Zelia Wiley, Kansas State University
Wysin Wilson, Tuskegee University
Dreamal Worthen, Florida A & M University

PAWC Local Planning Committee

Program Committee: T. Hargrove, R. Zabawa, C. Bonsi, N. Baharanyi, & W. Hill
Budget: S. Payne, T. Hargrove, R. Shange, & W. Hill
Registration: B. Green, Y. Wright, C. Pollard, S. Payne
PAWC Help Desk: VFairs
PAWC Virtual Network Session: T. Williams and T. Hargrove
Posters and Exhibits: P. Kanyi, K. Craig, & D. Eaves
Student Competition: TU Gamma Sigma Delta, F. Quarcoo, R. Zabawa & B. Vaughan
Publicity: T. Hargrove, K. Craig & P. Kanyi
Evaluation & Note takers: A. Paris, G. Paris, P. Young, C. Pollard & Y. Wright,
Awards: C. Bonsi, B. Green, W. Hill, R. Zabawa & K. Craig
PAWC Highlights and Journal: N. Tackie, T. Hargrove, R. Zabawa, & W. Hill
Printed Materials: T. Hargrove, K. Craig, O. Hill and V. Singleton
Audio-visual, Communication Aids, Logistics and Technology: K. Craig, D. Eaves, P. Kanyi,
Tomorrow's Agricultural Symposium: O. Bolden-Tiller and J. Sullen
Website: K. Craig, P. Kanyi, & T. Hargrove
PAWC: Faculty, Staff, Students, and College of Agricultural Environment and Nutrition Sciences

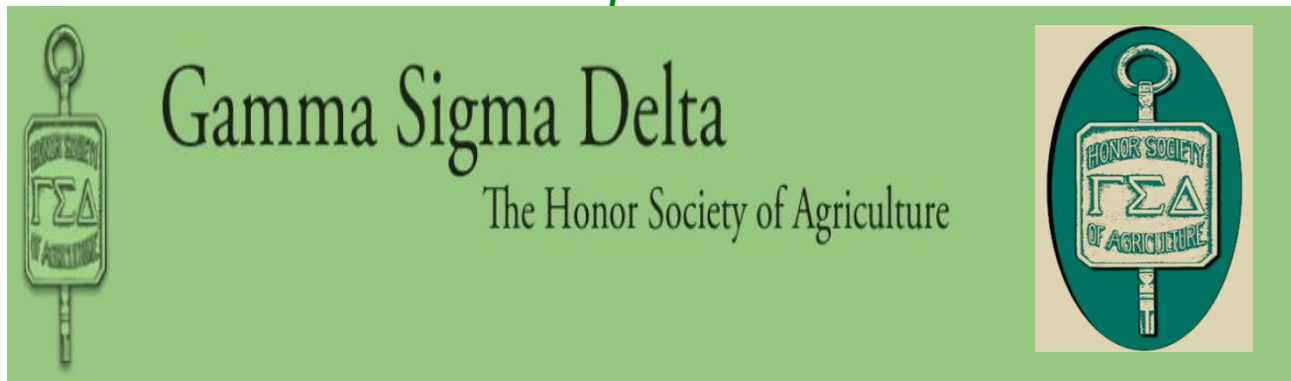
Headquarters: 110 Henderson Hall is the official conference headquarters. The telephone number is (334) 727-8157. The conference registration desk can be reached via (334) 332-9201 or (334) 552-1321. Select papers, posters and workshops presented at the conference will be considered for inclusion in the proceedings. Presenters should leave an e-copy of the paper and two hard copies with the Program Coordinators. Papers in final form will still be considered for publication if sent by January 31, 2021 via email to pawj@tuskegee.edu.

**STUDENT COMPETITIONS PROGRAM
AND BOOK OF ABSTRACTS**
17th ANNUAL STUDENT RESEARCH COMPETITION

Sponsored by the



Chapter of



&

78th Annual Professional Agricultural Workers Conference

Tuskegee University, Tuskegee, Alabama

ACKNOWLEDGEMENTS

The Tuskegee University Chapter of The Honor Society of Agriculture, Gamma Sigma Delta expresses sincere thanks to all of the manuscript and abstract reviewers, judges, moderators, Participating Students, DAES & GSD-PAWC Organizers for their invaluable service in making the Student Research Competition a success.



2020

Chapter Interim President: Dr. Barret Vaughan

Immediate Past President: Dr. Lila Karki

President-Elect: Dr. Barret Vaughan

Treasurer: Mrs. Janet Sullen

Secretary: Dr. Jasmine Ratcliff

Historian: Mr. Marquess James

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TUSKEGEE
UNIVERSITY



Chapter of
The Honor Society of Agriculture
Gamma Sigma Delta

PROGRAM

Sunday, December 6, 2020

1:00 a.m. - 5:00 p.m.: Student Research Competition

- Judges and Moderators pre-meeting at 11:30 a.m.
- Oral and poster presentations begin at 1:00 p.m.
- Participants can sign into their zoom session at 12.30 pm.

Tuesday December 8, 2020

1.00 p.m. - 1.45 pm (Central Time): Student Competition Award Ceremony

Join Zoom Meeting

<https://us02web.zoom.us/j/87564257618?pwd=aVRtTkIhVjNjRnkwK0NPWEJzRTc4dz09>

Meeting ID: 875 6425 7618

Passcode: 742939

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+19292056099,,87564257618#,,,,,0#,,742939# US (New York)

Judges

Dr. Gbenga Ojumu, Dr. Anthony Kumi, Dr. Gregory C. Bernard, Dr. Kwame Matthews, Dr. Franklin Quarcoo, Dr. Osagie Idehen, Ms. Adrienne Brown, Ms. Sonu Koirala B K and, Dr. Rammohan Balusu, Ms. Dawn Burton, Ms. Nicole Nunoo, Dr. Barret Vaughan, Dr. Olufemi Ajayi, Dr. Zelia Wiley, Dr. Peter Ampim, Dr. Eric Objeng, and Dr. Alberta Aryee.

UNDERGRADUATE ORAL PRESENTATIONS

1:00 p.m. Central Time (US and Canada)

Moderator: Ms. Halli Collins, Environmental and Plant Sciences Student, Tuskegee University

Judges: Dr. Anthony Kumi, Dr. Olufemi Ajayi, and Ms. Sonu Koirala

Date: December 6, 2020

Join Zoom Meeting

<https://zoom.us/j/97242347400?pwd=YXlwLzRCRkZWlOV3UDc3YjQwcG5uZz09>

Dial In: 312 626 6799 US (Chicago)

Meeting ID: 972 4234 7400

Passcode: GSD

1:00 p.m.

THE EFFECTS OF NITROGEN RATE ON THE GROWTH OF GREEN MALABAR SPINACH (*Basella alba* L.) IN A SANDY LOAM SOIL IN SOUTHEAST TEXAS

PAGE, LAUREN, P.A.Y. Ampim (faculty advisor), E. Obeng, C. Laura, A. Weerasooriya, and G. Osuji, Prairie View A&M University, Prairie View, Texas.

1:15 p.m.

AN ASSESSMENT OF THE SUCCESS OF THE MAPS PROGRAM: COLLEGE OF AG COHORTS

GREEN, BRANDON, Z. Wiley (faculty advisor), and L. Hobbs Jr., Kansas State University, Manhattan, Kansas

1.30 p.m.

EWE SEXUAL BEHAVIOR

WHITAKER, JAZMINE, W. I McElhenney (faculty advisor), and A. Crane (Department of Animal Sciences & Industry, Kansas State University, faculty advisor), Tuskegee University, Tuskegee, Alabama.

1:45 p.m.

THE IMPACT OF NITROGEN FERTILIZATION ON THE GROWTH AND YIELD OF EGYPTIAN SPINACH IN SOUTHEAST TEXAS

ISABELLE, FAITH, P.A.Y. Ampim (faculty advisor), E. Obeng, C. Laura, A. Weerasooriya, and G. Osuji, Prairie View A&M University, Prairie View, Texas.

2:00 p.m.

PERCEIVED BENEFITS OF LESSON STUDY TO 4-H MEMBERS: A THREE-YEAR MIXED METHODS STUDY

KOMUNJERU, BENITA and F. Janet (faculty advisor), Louisiana State University, Baton Rouge, Louisiana.

2:15 p.m.

ANALYZING THE MICROBIAL POPULATION ON THE FRESH PRODUCE COLLECTED FROM THE COMMUNITY GARDEN

PALMER, LENAYE, T. Green, A. Johnson, M. Moussavi (faculty advisor), S. Bandara (faculty advisor), L. Carson (faculty advisor), Prairie View A&M University, Prairie View, Texas.

2.30 p.m. 15 min break

2:45 p.m.

A POTENTIAL SOLUTION TO PVAMU'S FOOD INSECURITY PROBLEM

DAVIS, DILAN, A. Johnson, T. Green, C. Jackson, D. Bradford, S. Bandara, and L. Carson (faculty advisor), Prairie View A&M University, Prairie View, Texas.

3.00 p.m.

THE RESPONSE OF RED BEAUTY AND RED LEAF VEGETABLE AMARANTH VARIETIES TO NITROGEN FERTILIZATION

ROBINSON, ALEXANDER, P.A.Y. Ampim (faculty advisor), E. Obeng, A. Weerasooriya, and G. Osuji. Prairie View A&M University, Prairie View, Texas.

3.15 p.m.

A TIMELESS QUEEN: UNVEILING THE FASHION INFLUENCES OF QUEEN ELIZABETH I ON SOCIETY THROUGHOUT HISTORY

ROBERTS, LA TAVIA D., and J. Seo (faculty advisor), Southern University and A&M College, Baton Rouge, Louisiana.

3:30 p.m.

DEVELOPING A NUTRIENT SOLUTION FOR GROWING SWEET POTATO USING HYDROPONICS

TISDALE, DARIAN and S.K. Ponniah (faculty advisor), University of Arkansas at Pine Bluff, Pine Bluff, Arkansas.

GRADUATE ORAL PRESENTATIONS

BREAK OUT SESSION 1

1:00 p.m. Central Time (US and Canada)

Moderator: Adrienne Brown, I.B.S. Ph.D. student, Tuskegee University

Judges: Dr. Osagie Idehen, Ms. Dawn Burton, and Dr. Eric Obeng

Date: December 6, 2020

Join Zoom Meeting

<https://zoom.us/j/93105501232?pwd=QW5rQWp0SnBwMnpCNWIHV1BOaIVTdz09>

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1:00 p.m.

PHARMACOLOGICAL INHIBITION OF LIPID ACCUMULATION IN BOVINE OOCYTES TO IMPROVE CRYOSURVIVAL

MAYO, LAUREN, O. Bolden-Tiller (faculty advisor), and G.G. Wirtu, Tuskegee University, Tuskegee Alabama.

1:15 p.m.

APPLICATION OF NANO-SIZE CHITOSAN-ZNS-FOLIC ACID AS A POTENTIAL PHOTOTHERMAL AGENT IN CANCER THERAPY

JOHNSON, ANDRE, S. Bandara (faculty advisor), L. Carson (faculty advisor), and A. Oki, Prairie View A&M University, Prairie View, Texas.

1:30 p.m.

EVALUATION OF BEEF CATTLE AND GOAT PRODUCTION WORKSHOP HELD AT 126TH ANNUAL FARMERS CONFERENCE THROUGH POST EVENT SURVEY

GURUNG, RESHMA, F. Abrahamsen, R. Davis, R. Johnson, and N. Gurung (Faculty Advisor), Tuskegee University, Tuskegee, Alabama.

1:45 p.m.

BIOSYNTHESIS OF ZNO NANOPARTICLES FROM SWEET POTATO LEAF EXTRACT AND EFFECTS OF SEED PRIMING TREATMENT ON CARROT SEED

ANIL, TIMILSINA and H. Chen (faculty advisor), University of Arkansas at Pine Bluff, Pine Bluff, Arkansas.

2.00 p.m.

COMPARING STABLE CARBON NITROGEN ISOTOPES TO EXAMINE FEEDING TRENDS IN BLUE CRABS (*Callinectes sapidus*) ACROSS VEGETATION ZONES IN BLACKBIRD CREEK, DELAWARE

MAINA, JACQUILINE, A. Bland, and G. Ozbay (faculty advisor), Delaware State University, Dover, Delaware.

2:15 p.m.

FIRST YEAR STUDENT PERCEPTIONS AND EFFECTIVENESS OF SOCIAL MEDIA INFLUENCE IN COLLEGE OF AGRICULTURE RETENTION EFFORTS IN SOUTHEASTERN LAND-GRANT UNIVERSITIES

WISE, JAMIE P. and C. Clemons (faculty advisor), Auburn University, Auburn, Alabama.

2.30 p.m. 15 min break

2:45 p.m.

COMPARING THE IMPACT OF ARTIFICIAL OYSTER REEFS AND OYSTER FARMS ON WILD OYSTER RESTORATION, AQUATIC SPECIES DIVERSITY, AND WATER QUALITY IN DELAWARE INLAND BAYS

NAKAZWE, MEMORY, M. Gadde, A. Bland, V. Kalavacharla (faculty advisor), and G. Ozbay (faculty advisor), Delaware State University, Dover, Delaware.

3.00 p.m.

ANALYSIS OF CARBON AND NITROGEN ISOTOPES TO ASSESS NUTRIENT LOADING IN REHOBOTH BAY, DE, AND ITS EFFECTS ON OYSTER ACTIVITIES

GADDE, MOHANA, M. Nakazwe, A. Bland, V. Kalavacharla (faculty advisor), and G. Ozbay (faculty advisor), Delaware State University, Dover, Delaware.

3:15 p.m.

INVESTIGATING TURBIDITY-TOTAL SUSPENDED SOLID RELATIONSHIPS IN REHOBOTH BAY AQUATIC SYSTEMS

ALLISON, ROBERT, A. Bland, M. Gadde, M. Nakazwe, and G. Ozbay (faculty advisor), Delaware State University, Dover, Delaware.

3:30 p.m.

IDENTIFICATION OF PHENOLIC AND ANTIOXIDANT COMPOUNDS IN SWEETPOTATO
(*Ipomoea Batatas (L.)*)

MITCHELL, IVI L., J. Tumwebaze, M. Egnin (faculty advisor), D. Mortley (faculty advisor), C. Bonsi (faculty advisor), and G.C. Bernard (faculty advisor), Tuskegee University, Tuskegee, Alabama.

3:45 p.m.

THE SOCIOECONOMIC IMPACT OF NATURAL RESOURCES EXTRACTED BY
MULTINATIONAL CORPORATIONS: THE CASE OF THE STATE OF ALABAMA, USA AND
SUDAN, NORTH AFRICA

ALKORDI, DALAL, R. Zabawa (faculty advisor), and Y. Diabate (faculty advisor), Tuskegee University, Tuskegee, Alabama.

4.00.p.m.

THE IMPACT OF VITUAL VS. NON-VIRTUAL SUMMER RESEARCH PROGRAMS

THOMAS, RAYMOND J., Z.Z. Wiley (faculty advisor), and Lonnie Hobbs Jr.,
Kansas State University, Manhattan, Kansas.

GRADUATE ORAL PRESENTATIONS

BREAK OUT SESSION 2

1:00 p.m. Central Time (US and Canada)

Moderator: Mr. John Myers, Cooperative Extension, Tuskegee University

Judges: Dr. Gbenga Ojumu, Dr. Zelia Wiley, and Dr. Kwame Matthews

Date: December 6, 2020

Join Zoom Meeting

<https://zoom.us/j/97267293174?pwd=dmJrZXRLU2ZGUVJVVjgzeDAvbUgwQT09>

Meeting ID: 972 6729 3174

Passcode: GSD

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1.00 p.m.

SOLAR PHOTODEGRADATION OF METHYLENE BLUE DYE BY CELLULOSE-TIO₂ BIOCHAR PREPARED BY SOL-GEL METHOD

AQUIB, MOHAMMED AYMAN and H. Chen (faculty advisor), University of Arkansas at Pine Bluff, Pine Bluff, Arkansas.

1:15 p.m.

KEEP CALM AND TEACH ON: A STUDY OF MOTIVATIONAL FACTORS FOR SCHOOL-BASED AGRICULTURE EDUCATION TEACHERS DURING COVID-19

HALL, MEREDITH, C. Clemons (faculty advisor), J. McKibben (faculty advisor), and J. Lindner (faculty advisor), Auburn University, Auburn, Alabama.

1:30 p.m.

IMMERSIVE AND ONLINE LEARNING AND 360 DEGREE VIDEO: A SYNTHESIS OF LITERATURE IN SUPPORT OF FACULTY DEVELOPMENT AND STUDENT SUCCESS

COOK, CARRIE, and J. C. Ricketts (faculty advisor), Tennessee State University, Nashville, Tennessee.

1:45 p.m.

RESTORATION AND EVALUATION OF ANTHROPOGENIC EFFECTS ON COASTAL SEAGRASS IN MOBILE, ALABAMA

DAMES, KATIE C., R. Farid (faculty advisor), Tuskegee University, Tuskegee, Alabama.

2.00.p.m.

SEASONAL DIET COMPARISON OF HYBRID STRIPED BASS AND LARGEMOUTH BASS IN DEGRAY LAKE, ARKANSAS: PRELIMINARY RESULTS

SALINGER, JEREMIAH M. and S. E. Lochmann (faculty advisor), University of Arkansas at Pine Bluff, Pine Bluff, Arkansas.

2.15.p.m.

CHANNEL CATFISH CLCA5.2 GENE, A POTENTIAL INHIBITOR OF BACTERIAL PATHOGENESIS

BOHARA, KAILASH, G. Sriramoju, and G. Ramena (faculty advisor), University of Arkansas at Pine Bluff, Pine Bluff, Arkansas.

2.30 p.m. 15 min break

2.45pm.

EFFECTS OF PROTEIN AND LIPID CONTENT IN COMMERCIAL FISH FEED ON THE RELATIVE FECUNDITY OF FEMALE GOLDFISH *Carassius auratus*

JONES, JACOB H., S. B. Bhattarai, H.E. Fischer, and D. A. Perera (faculty advisor), The University of Arkansas at Pine Bluff, Pine Bluff, Arkansas.

3.00.pm.

HUMAN HEALTH EFFECTS OF PESTICIDE USE

MOORE, FANAYE A., G. El Afandi (faculty advisor), R. Ankumah (faculty advisor), and S. Fall (faculty advisor), Tuskegee University, Tuskegee, Alabama.

3.15.pm.

LOAD OF GASTROINTESTINAL PARASITES IN SMALL RUMINANTS WITH OR WITHOUT LEGUMINOUS FORAGES DURING THE FALL SEASON

JOHNSON, JA'NIA L., U. Karki (faculty advisor), A. Tiwari, and K. Norwood, Tuskegee University, Tuskegee, Alabama.

3.30.pm.

CHALLENGES POSED BY COVID-19 ON COMMUNITY ENGAGEMENT: A CASE OF AUBURN UNIVERSITY COMMUNITY GARDEN

ADU-GYAMFI, AKUA and J. McKibben (faculty advisor), Auburn University, Auburn, Alabama.

3.45.pm.

WINTER HAIR SHEDDING LEVEL AFFECTS COW-CALF PERFORMANCE IN DEXTER COWS.

HURT, KAYLEE, R. Browning, Jr. (faculty advisor), E. Hayes, S. Thomas, and. M. Leite-Browning, Tennessee State University, Nashville, Tennessee.

4.00.pm.

CULTIVATING A COMPREHENSIVE MODEL OF PIPELINE SUSTAINABILITY FOR MINORITY-SERVING FANH SCIENCES DEGREES

HOLLER, KELLY H., J. C. Ricketts (Tennessee State University), J.R. Linder (faculty advisor), Auburn University, Auburn, Alabama.

GRADUATE ORAL PRESENTATIONS

BREAK OUT SESSION 3

1:00 p.m. Central Time (US and Canada)

Moderator: Ms. Nicole Nunoo, Virginia Polytechnic Institute and State University

Judges: Dr. Rammohan Balusu, Dr. Gregory C. Bernard, and Dr. Peter Ampim

Date: December 6, 2020

Join Zoom Meeting

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1.00.p.m.

EFFECT OF FOLIAGE REMOVAL ON SWEET POTATO (*IPOMEA BATATAS*) ROOT YIELD AND THE ANTICANCER EFFECTS OF SELECTED CULTIVARS

AYAMGA, ENOCH A., B. Dingha (faculty advisor), P. Martin, C. Rorie, B. Amoah, and L. Jackai, North Carolina Agricultural and Technical State University, Greensboro, North Carolina.

1.15.p.m.

AN EVALUATION OF DISTANCE SAMPLING FRAMEWORKS TO ASSESS WOOD STRUCTURE ABUNDANCE IN ARKANSAS RESERVOIRS

KINDSCHUH, JAMIE, M. Richardson, and J. Spurgeon, University of Arkansas at Pine Bluff, Pine Bluff, Arkansas.

1.30.p.m.

HEALTH AND PERFORMANCE OF SMALL RUMINANTS BEING RAISED BY ALABAMA FARMERS DURING THE FALL SEASON

NORWOOD, KENDRA C., U. Karki, J. Johnson, A. Tiwari, Tuskegee University, Tuskegee, Alabama.

1.45.pm.

CHARACTERIZATION OF RENEWABLE BIOMASS FROM MORINGA SEED PODS AS POTENTIAL BIOPOLYMERS

SHAHI, NARESH, B. Min (faculty advisor), and D. Mortley (faculty advisor), Tuskegee University, Tuskegee, Alabama.

2.15.pm.

BROWN TROUT REDD SITE SELECTION IN THE GREERS FERRY TAILWATER

OWENS, DEREK K., and S. Lochmann (faculty advisor), University of Arkansas at Pine Bluff, Pine Bluff, Arkansas.

2.30 p.m. 15 min break

2:45. p.m.

THE PERCEIVED BARRIERS OF THE USDA FARMS SERVICE AGENCY AFFECTING AFRICAN AMERICAN FARMERS IN THE BLACKBELT OF ALABAMA

RONALD J. DAVIS, J. D. McKibben, J. R. Linder (faculty advisor), Auburn University, Auburn, Alabama.

3.00.pm.

EVALUATING THE IMPACT OF MUSTARD TRAP CROP DENSITY ON THE MANAGEMENT OF HARLEQUIN BUGS IN COLLARD

OWUSU, LAWRENCE, L.E.N. Jackai (faculty Advisor), and B. N. Dingha. North Carolina Agricultural and Technical State University, Greensboro, North Carolina.

3.15.pm.

THE INFLUENCE OF FERTILIZER RATE AND HARVEST INTERVALS ON YIELD AND DEVELOPMENT OF CANNABINOIDS IN FLOWERS OF INDUSTRIAL HEMP

OSBORNE, MELONDRIA, D. Mortley (faculty advisor), S. Vincent (faculty advisor), W. Collier (faculty advisor), Tuskegee University, Tuskegee, Alabama.

3:30 p.m.

EFFECT OF ANIMAL WASTE BIOCHAR ON CONTAMINANT REMOVAL

JACKSON, MALCOLM, A., and H. Chen (faculty advisor), University of Arkansas at Pine Bluff, Pine Bluff, Arkansas.

3.45.pm.

FEEDING STRATEGIES AND HABITAT UTILIZATION OF INDIVIDUAL DOLPHINS IN MOBILE BAY

HARLOW, JAIERE E., K. Dames, and R. Farid (faculty advisor), Tuskegee University, Tuskegee, Alabama.

4.00.pm.

LEGUME-GRASS PASTURES ENHANCED THE GROWTH OF YEARLING KIKO DOES

TIWARI, ANAND, U. Karki (faculty advisor), B. Paneru, N. Ellis, L. Karki. Tuskegee University, Tuskegee, Alabama.

4.15.pm.

USE OF YEAST CULTURE RESIDUE AS A PRE-HARVEST TREATMENT IN THE CONTROL OF *CAMPYLOBACTER* IN BROILER CHICKS

BENSON, PRAISE, H. Adams, V. Stanley, and M. Daley (faculty advisor), Prairie View A&M University, Prairie View, Texas.