

**National Institute
of
Food and Agriculture**
1890 Capacity Building Grants Program
Project Directors' Meeting



September 16-17, 2014
USDA HEADQUARTERS
WASHINGTON, DC

**National Institute of Food and Agriculture, 1890 Capacity Building Grants Program - Project Directors' Meeting
September 16-17, 2014, USDA HEADQUARTERS WASHINGTON, DC**

Monday, September 15, 2014

Hotel Check-In
Holiday Inn Capitol Washington, DC

Day 1: Tuesday, September 16, 2014

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| 8:30-9:00 am | Registration Jefferson Auditorium USDA South Building, 14 th St Independence Ave (Enter at 4 th wing on Independence Ave) |
| | Opening Session Dr. Edwin Lewis , National Program Leader, NIFA/USDA |
| 9:00 -9:45 am | Welcome Dr. Sonny Ramaswamy , Director, NIFA/USDA Carolyn Parker , Director, Office Advocacy and Outreach/USDA Dr. Sivapathasun Sureshwaran , Director, Division of Community and Education, NIFA/USDA |
| 9:45-10:00 am | 1890 Capacity Building Grants Program Dr. Edwin Lewis, NIFA/USDA |
| 10:00-10:30 am | NIFA's International Programs Patty Fulton , National Program Leader, Center for International Programs, NIFA/USDA |
| 10:30-10:45 am | Morning Break |
| 10:45-11:15 am | REEport Database Katelyn Sellers , POW & REEport Business Manager, NIFA/USDA |
| 11:15-11:45 am | Awards Management Adriene Woodin , Branch Chief, Awards Management Division, NIFA/USDA |
| 11:45-12:00 pm | Communicating Project Impacts Virginia Bueno , Communications Director, NIFA/USDA |
| 12:00-1:30 pm | LUNCH – USDA Cafeteria (Security Escort) |
| | Oral Project Presentations Chair: Dr. Zachary Senwo , Alabama A&M University |
| 1:30-1:45 pm | Building Global Engagements to Enhance Faculty & Students' Professional Development & Career Opportunities in Agriculture's Challenge Areas <i>Zachary Senwo</i> - Alabama A&M University |
| 1:45-2:00 pm | Graduate Education and Training in Global Food Security and Plant Biosecurity <i>Daniel Collins</i> - Alcorn State University |

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| 2:00-2:15 pm | Hydrologic Processes Controlling Stream Water Quality in a Claypan Watershed in Missouri <i>Fengjing Liu</i> - Lincoln University |
| 2:15-2:30 pm | Microbial Food Safety of Fresh Produce: Pathogen Survival in Soil, Water, and on Fresh Produce <i>Fawzy M. Hashem</i> - University of Maryland Eastern Shore |
| 2:30-2:45 pm | Computing Solutions for Enhanced Teaching and Learning in Biological and Agricultural Systems Engineering <i>Margaret Gitau</i> - Florida A&M University |
| 2:45-3:00 pm | Strengthen Teaching and Learning in Urban Forestry through Climate Change Education <i>Zhu H. Ning</i> - Southern University |
| 3:00-3:15 pm | Afternoon Break |
| 3:15-3:30 pm | Proteomics Instrumentation Meets Education (PRIME) at North Carolina Agricultural and Technical State University <i>Jenora Waterman</i> - North Carolina A&T State University |
| 3:30-3:45 pm | Professional Development Engagement Plan (PDEP): Innovations and Multidisciplinary Processes with College Students <i>Thurman Guy</i> - North Carolina A&T State University |
| 3:45-4:00 pm | Impact of different stocking rates of goats under pine silvopasture systems on understory biomass, crown cover density, and animal productivity <i>Anthony Kumi</i> - Tuskegee University |
| 4:00-4:15 pm | NIFA Grant Empowers UAPB to Take Giant Strides in Globalizing the Land-Grant Mission in Teaching and Extension <i>Pamela Moore</i> - Univ. of Arkansas at Pine Bluff |
| 4:15-4:30 pm | Evaluation of In-field Production of Ethanol from Sweet Sorghum <i>Mark Latimore, Jr.</i> - Fort Valley State University |
| 4:30-4:45 pm | Discovering Agricultural Related Careers through CYPRESS <i>Audrey McCrary-Quarles & Christopher C. Mathis, Jr.</i> - South Carolina State University |
| 4:45-5:00pm | Assessing Bioenergy Production Potential from Urban Forest Waste Biomass in Louisiana <i>Kamran Abdollahi</i> - Southern University |
| 5:00 pm | ADJOURN |

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| | Day 2: Wednesday, September 17, 2014 USDA NIFA Waterfront Center, 800 9 th ST. SW Room 1410 |
| 8:00-8:30 am | Security Check-in USDA NIFA Waterfront |
| 8:30-9:30 am | NIFA Funding and Panel Opportunities Institute of Food Safety and Nutrition – Dr. Robert Holland, Deputy Director Institute of Food Production and Sustainability – Dr. Parag Chitnis, Deputy Director Institute of Bioenergy, Climate and Environment – Dr. Ali Mohamed, Division Director Institute of Youth, Family and Community – Dr. Sivapathasun Sureshwaran, Division Director |
| 9:30-9:45 am | Establishing a Novel Livestock Information Delivery System <i>Paul Johnson</i> - Prairie View A&M University |
| 9:45-10:00 am | Measuring Urbanization and Its Impact on the Agricultural Land of North Alabama, 1980-2010 <i>Teshome Gabre</i> - Alabama A&M University |
| 10:00–10:15 am | Morning Break |
| 10:15-10:30 am | Continue to Build Global Competence and Collaborations through Student Experimental Learning and Faculty Exchange Programs in China <i>Yong Wang</i> - Alabama A&M University |
| 10:30-10:45 am | Establishment of the 1890s Water Center <i>Asmare Atalay</i> - Virginia State University |
| 10:45-11:00 am | Precise Identification of Diverse Escherichia Coli for Water Quality Monitoring and Management <i>Guolu Zheng</i> - Lincoln University |
| 11:00-11:15 am | Enhancement of the Capacity of Urban Agriculture in North Florida Using Best Management Practices <i>Muhammad Haseeb</i> - Florida A&M University |
| 11:15-11:30 am | Modification of Wheat and Corn Brans by Microfluidization Process <i>Guibing Chen</i> - North Carolina A&T State University |
| 11:30-11:45 am | The DSU Mobile Meat Processing Lab <i>Dennis McIntosh</i> - Delaware State University |
| 11:45 – 12:30 | Poster Set-up |
| 12:30-2:00 pm | LUNCH (On your Own) |
| 2:00-3:45 pm | Poster Session (Room 1410 A-D) |
| 3:45-4:00 pm | Closing |

| Poster Number | Listing of Poster Presentations |
|---------------|--|
| 1 | <p>Graduate Education and Training in Global Food Security and Plant Biosecurity</p> <p><i>Daniel Collins</i> - Alcorn State University</p> |
| 2 | <p>Metrics of Sustainable Design: Enhancing Faculty Knowledge and Curriculum Delivery</p> <p><i>Anna Revington Reaves</i> - North Carolina A&T State University</p> |
| 3 | <p>Establishment of the 1890s Water Center</p> <p><i>Asmare Atalay</i> - Virginia State University</p> |
| 4 | <p>Plant Pathology Resources for Advanced Agriculture Education at Alcorn State University</p> <p><i>Chunquan Zhang</i> - Alcorn State University</p> |
| 5 | <p>Microbial Food Safety of Fresh Produce: Pathogen Survival in Soil, Water, and on Fresh Produce</p> <p><i>Fawzy M. Hashem</i> - University of Maryland, Easter Shore</p> |
| 6 | <p>Hydrologic Processes Controlling Stream Water Quality in a Claypan Watershed in Missouri</p> <p><i>Fengjing Liu</i> - Lincoln University</p> |
| 7 | <p>Integrated Pest Management (IPM) Education for Limited-resource Farm Families</p> <p><i>Franklin Olisa Chukwuma</i> - Alcorn State University</p> |
| 8 | <p>Precise Identification of Diverse Escherichia Coli for Water Quality Monitoring and Management</p> <p><i>Guolu Zheng</i> - Lincoln University</p> |
| 9 | <p>Watershed Scale Sediment Provenance Model with Climate Forcing</p> <p><i>Ifekhar Ahmed</i> - Prairie View A&M University</p> |
| 10 | <p>Development of the Synergistic Efforts to Reduce Pharmaceuticals in the Environment (SerPIE) Program</p> <p><i>Karnita Golson Garner</i> - Alabama A&M University</p> |
| 11 | <p>BOLD: Developing Leaders in Rural and Underserved Populations</p> <p><i>Kenyetta Nelson-Smith</i> - Southern University</p> |
| 12 | <p>Study of Feeding Curcumin Containing Diet to Catfish to Enhance Immune Response Against a Fish Pathogenic Bacterial Challenge</p> <p><i>Kunwar Srivastava</i> - Tuskegee University</p> |

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| 13 | <p>A Reactive Distillation Process for Upgrading Bio-Oil to Transportation Fuels and Bioplastics</p> <p><i>Bo Zhang</i> - North Carolina A&T State University</p> |
| 14 | <p>Computing Solutions for Enhanced Teaching and Learning in Biological and Agricultural Systems Engineering</p> <p><i>Margaret Gitau</i> - Florida A&M University</p> |
| 15 | <p>Using an Edible Garden to teach College Students and Preschoolers about Health, Nutrition and Physical Activity</p> <p><i>Meeshay Williams-Wheeler</i> - North Carolina A&T State University</p> |
| 16 | <p>Addressing Health, Nutrition, and Childhood Obesity through Urban Ag Connections and Live + Learn Health and Wellness School & Community Projects</p> <p><i>Orlenthea McGowan, Corey Williams & Carla Kirk</i> - Langston University</p> |
| 17 | <p>Establishing a Novel Livestock Information Delivery System “What to Do Until the Vet Gets to your Farm”</p> <p><i>Paul Johnson</i> - Prairie View A&M University</p> |
| 18 | <p>Watershed Academy for Agriculture and Natural Resource County Agents</p> <p><i>Sam Dennis</i> - Tennessee State University</p> |
| 19 | <p>Characterization of Novel Hydrolytic Enzymes for Improving Conversion Efficiency of Lignocellulosic Biomass into Ethanol</p> <p><i>Suping Zhou</i> - Tennessee State University</p> |
| 20 | <p>Population Monitoring and Alternate Control Methods of Vegetable Insects</p> <p><i>Tahir Rashid</i> - Alcorn State University</p> |
| 21 | <p>Measuring Urbanization and Its Impact on the Agricultural Land of North Alabama, 1980-2010</p> <p><i>Teshome Gabre</i> - Alabama A&M University</p> |
| 22 | <p>Genetic and Molecular Elucidation of Phospholipid Biosynthetic Pathways in <i>Haemonchus contortus</i></p> <p><i>William Harold Witola & Sheritta Cooks Fagbodun</i> - Tuskegee University</p> |
| 23 | <p>Continue to Build Global Competence and Collaborations through Student Experimental Learning and Faculty Exchange Programs in China</p> <p><i>Yong Wang</i> - Southern University</p> |
| 24 | <p>Integrating Sustainability into Urban Forestry and Agriculture Education</p> <p><i>Zhu Ning</i> - Southern University</p> |

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| 25 | <p>The Young Men's Garden That Thrives</p> <p><i>Christie Gremillion-Monroe</i> - Southern University</p> |
| 26 | <p>Evaluation of In-field Production of Ethanol from Sweet Sorghum</p> <p><i>Mark Latimore, Jr.</i> - Fort Valley State University</p> |
| 27 | <p>Discovering Agricultural Related Careers through CYPRESS</p> <p><i>Audrey McCrary-Quarles and Christopher C. Mathis, Jr</i> - South Carolina State University</p> |
| 28 | <p>Collaborative Suite for Real-time Training</p> <p><i>Cesar Fermin</i> - Tuskegee University</p> |
| 29 | <p>Impact of Different Stocking Rates of Goats under Pine Silvopasture Systems on Understory Biomass, Crown Cover Density, and Animal Productivity</p> <p><i>Anthony Selase Kumi</i> - Tuskegee University</p> |
| 30 | <p>Professional Development Engagement Plan: Innovations and Multidisciplinary Processes with College Students</p> <p><i>Thurman Guy</i> - North Carolina A&T State University</p> |
| 31 | <p>Building Global Engagements to Enhance Faculty & Students' Professional Development & Career Opportunities in Agriculture's Challenge Areas</p> <p><i>Zachary Senwo</i> - Alabama A&M University</p> |
| 32 | <p>Extreme Makeover: Soft Skills Edition: Preparing 4-H Youth for Life and Work</p> <p><i>Misty Blue-Terry</i> - North Carolina A&T State University</p> |
| 33 | <p>Proteomics Instrumentation Meets Education (PrIME) at North Carolina Agricultural and Technical State University</p> <p><i>Jenora T. Waterman</i> - North Carolina A&T State University</p> |
| 34 | <p>Development of an Innovative Fingerprinting Scheme for Campylobacter Surface Antigens</p> <p><i>Fur-Chi Chen</i> - Tennessee State University</p> |
| 35 | <p>Implementing Metagenomic-Enabled Systems Analysis to Engineer Energy Thresholds and Resilience in Microbial Bioenergy Communities</p> <p><i>David Huber</i> - West Virginia State University</p> |
| 36 | <p>Carnosic Acid as the Major Active Component in Rosemary Ameliorates High-Fat Diet Induced Obesity and Metabolic Syndrome in Mice</p> <p><i>Shengmin Sang</i> - North Carolina A&T State University</p> |

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| 37 | Effects of Stream Impoundment on Aquatic Insect Communities in Steephead Ravines of the Apalachicola River Basin, Florida <i>Andrew K. Rasmussen</i> - Florida A&M University |
| 38 | Eradicating Food Deserts in Neighborhoods through the Development of School Gardens <i>Tiffany Wilkerson-Franklin</i> - Southern University |
| 39 | Analysis of Transcriptome in Adipose Tissue of Chickens <i>Xiaofei Wang</i> - Tennessee State University |
| 40 | Modification of Wheat and Corn Brans by Microfluidization Process <i>Guibing Chen</i> - North Carolina A&T State University |
| 41 | The DSU Mobile Meat Processing Lab <i>Dennis McIntosh</i> - Delaware State University |
| 42 | A Decision Support Tool for Evaluating the Effects of Alternative Agricultural Land Management Practices on Florida Surface Water Quality <i>Katherine Milla</i> - Florida A&M University |
| 43 | Assessing Factors Related to the Safety of Raw Meat, Poultry, Game, and Seafood Products Ordered through Online Companies and Delivered via a Common Carrier <i>Sandria Leigh Godwin</i> - Tennessee State University |
| 44 | Improving Growth and Quality of Grass-Fed Hair Sheep Lambs <i>Stephan Wildeus</i> - Virginia State University |
| 45 | Community Based Education to Promote Health and Asset Management for Alabama's Older Adults <i>Kevin Crenshaw</i> - Alabama A&M University |
| 46 | Strategies to Improve Farm and Business Efficiency Through Integrated Communication <i>Bridget Udoh</i> - Southern University |
| 47 | Effects of Grape Pomace Polyphenol on the Digestibility of Macronutrients <i>Jianmei Yu</i> - North Carolina A&T State University |
| 48 | Summer Enrichment Programs: A Tool to Increase Enrollment in Agriculture at Virginia State University <i>Christopher J. Catanzaro</i> - Virginia State University |
| 49 | Application of Geographic Information System (GIS) in Environmental Science and Sustainable Agriculture Education <i>Gulnihal Ozbay</i> - Delaware State University |
| 50 | Surveying Human Subjects: A Teaching Application Using Environmental and Natural Resource Economics <i>Michael Thomas & Alfredo Lorenzo</i> - Florida A&M University |
| 51 | NIFA Grant Empowers UAPB to Take Giant Strides in Globalizing the Land-Grant Mission in Teaching and Extension <i>Pamela Moore</i> - Univ. of Arkansas at Pine Bluff |

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Development of integrated food protection and defense education and extension program for students and professionals in 1890 universities

Salam Ibrahim & Saeed Hayek - North Carolina A&T State University
