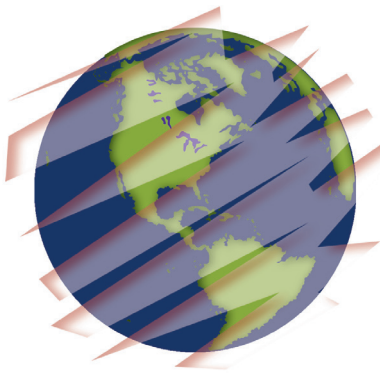


ENVIRONNEWS

Waste Management Institute

UNDER THE LEADERSHIP OF THE COLLEGE OF AGRICULTURE AND ENVIRONMENTAL SCIENCES - MOHAMED AHMEDNA, PH.D., DEAN



INTERDISCIPLINARY ACADEMIC AFFILIATE UNITS

- ANIMAL SCIENCES
- AGRICULTURAL EDUCATION
- AGRICULTURAL ECONOMICS
- ARCHITECTURAL ENGINEERING
- BIOLOGY
- BIOLOGICAL ENGINEERING
- BUSINESS MANAGEMENT
- CHEMICAL ENGINEERING
- CHEMISTRY
- CIVIL ENGINEERING
- COMPUTER SCIENCE
- BUILT ENVIRONMENT
- EDUCATION
- ECONOMICS
- ELECTRICAL ENGINEERING
- HISTORY
- FAMILY & CONSUMER SCIENCE
- INDUSTRIAL SYSTEMS ENGINEERING
- JOURNALISM AND MASS COMMUNICATIONS
- LIBERAL STUDIES
- MATHEMATICS
- MECHANICAL ENGINEERING
- NATURAL RESOURCES
- NURSING
- POLITICAL SCIENCE
- PHYSICS
- PSYCHOLOGY
- SOCIOLOGY/SOCIAL WORK

Inside...

EPA Selects Charter Members	1
A&T hosts National Conference	1
WMI Certificate Recipients	2
Career Paths	3
Outreach & Engagement	3
Sustainability Leadership	3
Research Historic Moment	4
Noteworthy	4

INTERDISCIPLINARY WASTE MANAGEMENT INSTITUTE

DIRECTOR
Godfrey Uzochukwu, Ph.D
INTERIM PROVOST
Tonya Smith-Jackson, Ph.D
CHANCELLOR
Dr. Harold L. Martin Sr.



EPA Announces Selections of Charter Members to the Science Advisory Board (SAB)



"...Congratulations to Dr. Godfrey Uzochukwu, professor/founding director of the interdisciplinary Waste Management Institute at #NCAT, one of 47 members appointed Tuesday to the @EPAScientific Advisory Board by Administrator @EPAMichaelRegan. #AggiesLead..."
Chancellor Harold L. Martin Sr., @WholsHLM

Godfrey Uzochukwu, Ph.D., is among 47 SAB members with dual appointments to the Agricultural Sciences Committee.

University of North Carolina System General Administration (UNC-GA) Mandate

"...This office has reviewed your request to establish a Waste Management Institute. We conclude that the proposed unit, as described, will be an academic support unit with more limited research and public service functions...Establishment of a Waste Management Institute is hereby approved..."

- C. D. Spangler Jr. '94 President

N.C. A&T's Chancellor's Mandate

"...Coordination of waste management and environmental efforts (instruction, research and outreach of the university which now exist in individual departments; implementation of certificate programs in waste management...advisement of students who are interested in environmental and waste management careers; and clearing house for the university's environmental/waste management activities..."

- Edward B. Fort, '95 Chancellor

"This highly qualified, diverse group of experts will ensure that EPA is receiving sound science-based advice to inform our work to protect people and the environment from pollution," said EPA Administrator Michael S. Regan. "We worked expeditiously and deliberately to finalize the new Science Advisory Board, and now we can move forward knowing EPA's work is guided by the most credible, independent expertise."

N.C. A&T State University to Host a National Conference on Next Generation Technologies for Small-Scale Producers on Sept. 7-9, 2022.

"...The purpose of the conference is to create a road map for developing and delivering the next generation of soil, air and water technologies in support of sustainable production systems on small and limited resource farms..." said Dr. Godfrey Uzochukwu, Chair, Conference Organizing Committee.

Conference attendees will include socially disadvantaged farmers, urban and controlled environment farmers, beginning farmers and ranchers, heirs, property holders, and absentee landowners, underserved rural community citizens, military veterans and retired farmers, agricultural professionals and agribusiness stakeholders, students, researchers, scientists and agency representatives, and other interested agricultural industry professionals.

The conference is funded by the United States National Institute of Food and Agriculture (NIFA) and sponsored by **North Carolina A&T State University** (The Interdisciplinary Waste Management Institute, Center for Environmental Farming Systems, Cooperative Extension Service, College of Agriculture and Environmental Sciences, College of Science and Technology, Extended Campus:

Continuing Education), **Alabama A&M University** (Small Farms Research Center), **Alcorn State University** (The Socially Disadvantaged Farmers and Ranchers Policy Research Center) and **Virginia State University** (Small Farm Outreach Program). Conference topics include workshops, farmer to farmer interactions, networking, technical presentations (climate adaptation, computers and cyber security, farm justice and food security, planting and harvesting automations, small business innovations and sustainable farming, food processing technologies, field demonstrations of next generation sustainable technologies).

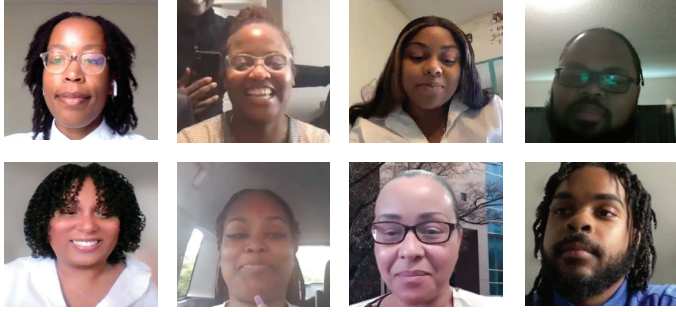
NATIONAL CONFERENCE ON
NEXT-GENERATION SUSTAINABLE TECHNOLOGIES
FOR SMALL-SCALE PRODUCERS

SEPT. 7-9, 2022

Undergraduate Interdisciplinary Waste Management Certificate Recipients (2022/22)

Graduating seniors (B.A./B.S.) and graduate students (M.S./Ph.D.) received Waste Management Certificates at special ceremonies on Zoom because of COVID-19. The students completed their degree and certificate requirements. The Waste Management Certificate highlights the training of students in environmental sustainability, security and waste management issues and signals to employers that N.C. A&T graduates are ready to broadly advance waste management and sustainability in their fields. The certificate adds value to the undergraduate and graduate training at N.C. A&T.

STUDENTS



Undergraduate WMI Certificate Recipients (2021-22)

Kendal J. Anderson	Environmental Studies
L'Quaan Cevante Atkinson	Civil Engineering
Janae Brown	Chemical Engineering
Nascier Gabriel Bryant	Environmental Studies
Gabriel Maynor Faulcon	Animal Science
Esmeralda Molina Flores	Chemical Engineering
Myles Greer	Civil Engineering
Samantha Griffin	Mechanical Engineering
Jared E. Jackson	Pre-Law
Victor Larry James II	Environmental Health
Devante Jones	Environmental Studies
Terrill Dominique Jones	Chemical Engineering
Timothy Jerome Jones Jr.	Architectural Engineering
James Knox	Electrical Engineering
Summer McKinley Lauder	Environmental Studies
Quincey Le'Ander Lee	Environmental Studies
Taylor L. Mitchell	Environmental Studies
Osjale' K. Moorman	Architectural Engineering
Jewel Manuel-Nelson	Civil Engineering
Ashley Murphy	Architectural Engineering
Sydney Parker	Mechanical Engineering
Jaelyn Phillips	Industrial & Systems Eng
Lamir Shombre' Quick	Bioengineering
Sheerhonda R. Rhodes	Architectural Engineering
Shalores Rupert	Animal Science
Jada Marie Sherman	Environmental Studies
Michael Sledge	Environmental Studies
Chaya Imani Terry	Environmental Studies
Carl Jerome Scott Jr.	Electrical Engineering
Amira Slocum	Environmental Studies
Christopher Todd	Electrical Engineering
Lakasias D. Wall	Animal Science
Justice Wright	Environmental Science

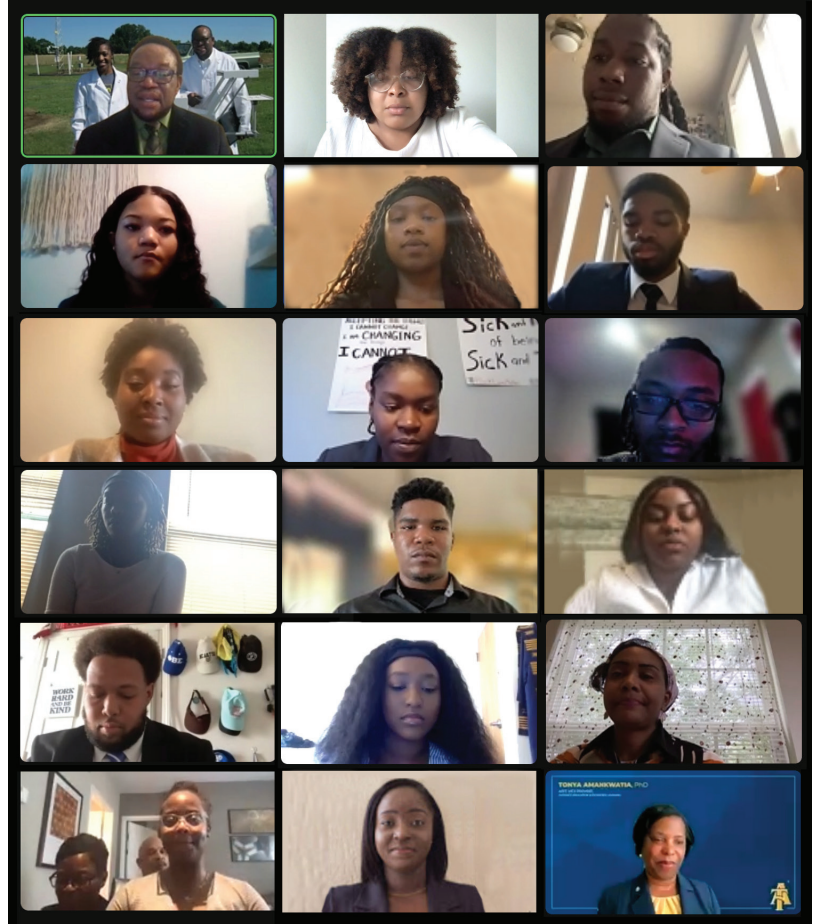
Advanced WMI Certificate Recipients

Edie Renee Brewer	Environmental Justice
Ebony Lashay Corbitt	Environmental Health
Sarah Lewers	Environmental Health
Janeva Williams	Environmental Studies

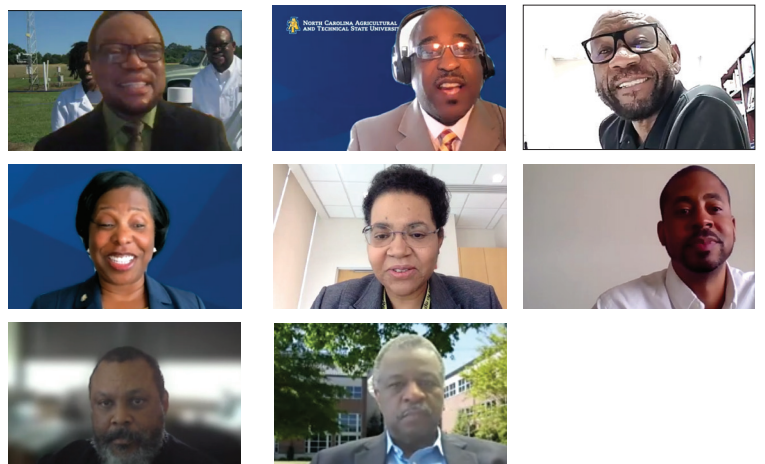
Interdisciplinary Graduate Environmental Certificate

Edie Renee Brewer	Environmental Justice
Ebony Lashay Corbitt	Environmental Health
Sarah Lewers	Environmental Health

INTERDISCIPLINARY WMI CERTIFICATE CEREMONY MAY 13, 2022 ON ZOOM



FACULTY AND ADMINISTRATION



Career Paths for Graduates Who Received WMI Certificates

Major and Career Path

Animal Science

Environmental Animal Health and Specialist

Biology

Environmental Biology

Business

Environmental Business

Chemistry

Environmental Chemistry

Communication

Environmental Communication

Construction Management

Environmental Safety

Criminal Justice

Environmental Crimes

Economics

Environmental Economics

Education

Environmental Education

Environmental Studies/Science

Environmental Scientists/Consultants/Specialists

Engineering

Environmental Engineering

Journalism

Environmental Journalism

Landscape Architecture

Environmental Design/Visual Resource Specialist

Mathematics

Environmental Mathematics/Statistics

Nursing

Environmental Health/Occupational Safety

Occupational Safety and Health

Environmental Safety

Physics

Environmental Physics

Political Science

Environmental Policy/Politics

Psychology

Environmental Psychology

Sociology

Environmental Sociology

Social Work

Environmental Social Justice

Other

Environmental Consultants

Public Service – Outreach and Engagement

Environmental Security, Sustainability and Waste Management Workshop

Pre-College Workshop on Environmental Security, Sustainability and Waste Management was conducted on Zoom high school students and teachers in June and July 2021 and 22 for 25 high school students. The theme of the workshop was “Environmental Security and Waste Management” highlighting challenging environmental security, sustainability, and waste management questions.

Uzochukwu to Serve on Global Council for Science and Environment (GCSE) Board of Directors

Godfrey Uzochukwu Ph.D. has been appointed to serve on the Global Council and Environment Board of Directors effective Jan. 1, 2022. GCSE is a nongovernmental organization established in 1990 that advances the use of science to inform environmental decision-making. The work of GCSE spans boundaries between science and decision-making to strengthen the impact of durable solutions to environmental challenges. GCSE engages scientists, educators, policymakers, business leaders and officials at all levels of government. As a member of the GCSE Board of Directors, Uzochukwu will help GCSE achieve its mission to advance the use of science to inform environmental decision-making given his expertise in agricultural and environmental sciences.

Interdisciplinary Research

Development of effective environmental and waste management solutions requires converging approaches such as the integration of knowledge from air, water, energy, infrastructure, climate and education. Search for solutions must draw upon innovative ideas from different disciplines.



Water and Air Quality

- Manoj Jha, Ph.D. (Leader)
- Arnab Bhowmik, Ph.D.
- Godfrey Uzochukwu, Ph.D.
- Niroj Aryal, Ph.D.
- Renzun Zhao, Ph.D.

Waste Management

- Renzun Zhao, Ph.D. (Leader)
- Godfrey Uzochukwu, Ph.D.
- Arnab Bhowmik, Ph.D.
- Abolghasem Shahbazi, Ph.D.
- Niroj Aryal, Ph.D.

Energy and Climate

- Abolghasem Shahbazi, Ph.D. (Leader)
- Lijun Wang, Ph.D.
- Godfrey Uzochukwu, Ph.D.
- Omar Basha, Ph.D.
- Manoj Jha, Ph.D.
- Arnab Bhowmik, Ph.D.
- Solomon Billig, Ph.D.
- Ademe Mekonnen, Ph.D. (Leader)

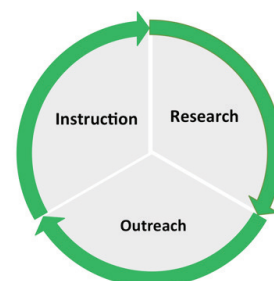
Education and Infrastructure

- Godfrey Uzochukwu, Ph.D. (Leader)
- Leotis Parrish, Ph.D.
- George Robinson, Ph.D.

Sustainability Leadership at N.C. A&T

North Carolina Agricultural and Technical State University has a history of providing leadership in addressing sustainability issues such as infrastructure, energy and climate change, waste management, water usage, transportation and education through Colleges, Facilities Department, Budget Office, Division of Research and Economic Development, Campus Enterprise, Office of Strategic Planning and Institutional Effectiveness, University Farm and Interdisciplinary Waste Management Institute (WMI). These collaborations have made the university a major contributor to understanding sustainability on a global scale. The University has taken advantage of Higher Education Sustainability Bill (The Higher Education Opportunity Act-P.L. 110-315) signed by President George W. Bush in 2008. In March 2011, Chancellor Harold Martin Sr. launched a robust sustainability program and encouraged everyone to integrate sustainability into their daily operations.

Interdisciplinary Waste Management Institute Program Components



REDUCE RECYCLE REUSE REDESIGN REIMAGINE



HISTORIC MOMENT

April 14, 2022



POTUS – President of the United States visit with EPA Administrator (N.C. A&T graduate) at N.C. A&T State University on 4.14.22. R-L Dr. Uzo, POTUS and Administrator



WMI Photos

WMI NOTEWORTHY SUMMARY

- Awarded 2,301 WMI certificates and adding value to degree programs
- Offers the best interdisciplinary supporting courses
- Selected Interdisciplinary Model for N.C. A&T – Futures Goal II (Created *Interdisciplinary Energy and Environmental Systems Ph.D. (Renamed Science and Technology Ph.D.)*; *Informed Interdisciplinary Leadership Studies Ph.D.*; *Inspired the creation of Interdisciplinary Computational Science and Engineering Ph.D.*; *Interdisciplinary Masters, Bachelors and Certificate Programs*).
- Promotes Big Ideas of Sustainability – infrastructure, energy, climate, waste management, water conservation, transportation and education
- Forum for exchange of big ideas among faculty and students from different disciplines
- Lead Institute for the Interdisciplinary Graduate Certificate Tracks in Environmental Engineering, Environmental Sciences, Environmental Justice and Environmental Health and Safety
- Awarded \$1.4 million to establish interdisciplinary WMI
- Awarded \$18 million NSF Inter-institutional (A&T, NCSU, UNC-CH and UT Austin) for saving water
- Campus-wide resource for faculty and students (awarded \$384,000 to students in different colleges, provided \$33,191 for faculty support, created core WMI course)
- Works with 18 academic departments to tailor WMI core and over 360 courses offered by departments to follow an interdisciplinary waste management curriculum
- Facilitated top 2% in 2017 (No. 14 overall) and No. 4 in USA rankings (UI Green Metric – University Sustainability World Ranking for N.C. A&T and ranked in the top 7% for five consecutive years 2013, 2014, 2015, 2016 and 2017)
- Selected No. 1 by the Environmental Careers Organization for innovative programming and diversity
- Recognized by the Greensboro Chamber of Commerce as an innovative environmental program
- Top 28 interdisciplinary institute/center in USA (2013 NCSE report - 360 were profiled)
- Leader in Convergence Research Thrusts for environmental and waste management solutions involving air, soil, water, bio-energy, global climate, education and infrastructure

WMI Interdisciplinary Steering Committee

Michael Atkinson, Ph.D.	Department of Mechanical Engineering
Renzun Zhao, Ph.D.	Department of Civil and Architectural Engineering
Godfrey Ejimakor, Ph.D.	Department of Agribusiness
Alesia Ferguson, Ph.D.	Department of Built Environment
Gregory Goins, Ph.D.	Department of Natural Resources
George Robinson, Ph.D.	(Psychologist), Department of Psychology
Godfrey Uzochukwu, Ph.D.	Interdisciplinary Waste Management Institute

Interdisciplinary WMI Faculty Affiliate

Uchenna Anele, Ph.D.	College of Agriculture and Environmental Sciences
Niroj Aryal, Ph.D.	College of Agriculture and Environmental Sciences
Michael Atkinson	College of Engineering
Samuel Atkinson, Ph.D.	Industrial Systems Engineering
Fafanyo Asiseh, Ph.D.	College of Business and Economics
Kory Bennett, Ph.D.	College of Engineering
Arnab Bhowmik	College of Agriculture and Environmental Sciences
Clayton Clark II	College of Engineering
Heather Collieran, Ph.D.	College of Agriculture and Environmental Sciences
Derome Dunn, Ph.D.	College of Engineering
Godfrey Ejimakor, Ph.D.	College of Agriculture and Environmental Sciences
Alesia Ferguson, Ph.D.	College of Science and Technology
Gregory Goins, Ph.D.	College of Agriculture and Environmental Sciences
Salam Ibrahim, Ph.D.	College of Agriculture and Environmental Sciences
Louis Jackai, Ph.D.	College of Agriculture and Environmental Sciences
Leotis Parrish, Ph.D.	College of Engineering
George Robinson, Ph.D.	College of Health and Human Sciences
Amy Schwartzott, Ph.D.	College of Arts and Humanities
Godfrey Uzochukwu, Ph.D.	Interdisciplinary Waste Management Institute
Tobin N Walton, Ph.D.	College of Health and Human Sciences
Renzun Zhao, Ph.D.	College of Engineering
Gregory Meyerson, Ph.D.	College of Arts, Humanities and Social Sciences

North Carolina Agricultural and Technical State University (N.C.A&T) is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate, master's and doctoral degrees. | N.C. A&T does not discriminate against any person on the basis of age, color, disability, gender identity, genetic information, national origin, race, religion, sex, sexual orientation, veteran status, or any other basis protected by law. | N.C. A&T is an AA/EEO and ADA compliant institution.

WMI Mission: To enhance awareness and understanding of waste management issues and develop programs that protect the environment and improve the quality of life.

This newsletter is a publication of the Waste Management Institute of North Carolina Agricultural and Technical State University. It is intended to increase the awareness of teachers, students, industry, government and community groups about environmental, sustainability and waste management issues.

From the Editorial Staff:

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We welcome creative ideas that are suitable for inclusion in the EnviroNews. Send a brief summary of your ideas to:
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