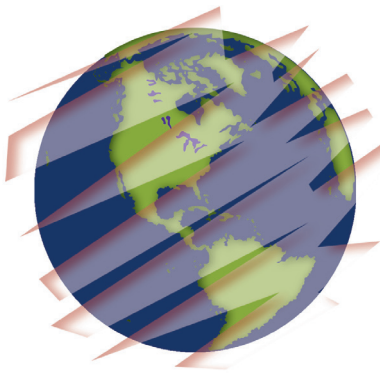


# ENVIRONNEWS

## Waste Management Institute

UNDER THE LEADERSHIP OF THE COLLEGE OF AGRICULTURE AND ENVIRONMENTAL SCIENCES



### 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

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Interdisciplinary Waste Management Institute

**Dr. Godfrey Uzochukwu**  
DIRECTOR  
Academic Deans  
**Dr. Beryl McEwen**  
PROVOST  
**Dr. Harold L. Martin Sr.**  
CHANCELLOR



### IBM INTRODUCES RECYCLING DESIGN THINKING FOR COMPLEX PROBLEM SOLVING

IBM's North Carolina A&T State University Engagement Team hosted a Design Thinking Workshop in spring semester 2019. The goal of the IBM Design Thinking Workshop at N.C. A&T was to expose students to a new way of improving recycling and solving complex problems and to offer students a structured framework for understanding and pursuing creativity and innovation in ways that contribute to societal well being. The Design Thinking Workshop was facilitated by the Office of Career Services. The Interdisciplinary Waste Management Institute (WMI) offers a robust recycling course (WMI 236) for undergraduate students.



Dr. Uzo speaking at IBM Recycling Design Thinking Workshop at N.C. A&T



### NATIONAL ATMOSPHERIC DEPOSITION PROGRAM (NADP)

NC A&T's NC 17 NADP site continues to track atmospheric deposition and its effects on the ecological systems. NC 17 site operates two monitoring networks (the National Trends Network, NTN) and Mercury Deposition Network (MDN). NADP data is critical to public safety, ecosystem services and environmental policies. N.C. A&T students are the site operators.



Dr. Uzo and Nallah Muhammad at NC 17 NADP site at N. C. A&T.



Nallah Muhammad (undergraduate student) and Daniel A. Obiri (graduate student)



## UNDERGRADUATE INTERDISCIPLINARY CERTIFICATE RECIPIENTS

Alimayu Akono	Civil Engineering
Naser Aldosary	Civil Engineering
Fahad Alhaqbani	Civil Engineering
Chantel Ashwood	Environmental Studies
Myla Barker	Environmental Studies
Brittani Bedford	Food and Nutritional Sciences
Ronald Bethea	Environmental Studies
Ronnie Blakeney Jr	Applied Engineering Technology
Nuri Brinkley	Environmental Studies
Kheelum Brown	Food and Nutritional Sciences
Mary Brown	Environmental Studies
Tabitha Carpenter	Chemical Engineering
Angelena Castro	Journalism and Mass Communication
Reubeneeco Crummy	Applied Engineering Technology
Precious Hairston	Environmental Studies
Alexandra Hauke	Biological Engineering
Breonna Johnson	Food and Nutritional Sciences
Ebony Jones	Environmental Studies
Ahmeer Majeid	Environmental Studies
Khalil McGruder	Environmental Studies
Abram Miller	Architectural Engineering
Nichole Parker	Architectural and Civil Engineering
JaCorey Patterson	Environmental Studies
Taylor Ransome	Environmental Studies
Malik Robinson	Sustainable Land Management
Nicholas Scales	Civil Engineering
Willie Smith	Environmental Studies
Samuel Stidwell IV	Architectural Engineering
Keshaun Stubbs	Mechanical Engineering
Timothy White Jr	Civil Engineering
Kiyonna Williams	Food and Nutritional Sciences
Michael Worthen	Architectural Engineering
Jabril Wright	Environmental Studies



Dr. Uzo and JaCorey Patterson



Mary Brown and Dr. Uzo

## GRADUATING STUDENTS RECEIVE WASTE MANAGEMENT CERTIFICATES

Thirty-three graduating seniors (B.A./B.S.) and twelve graduate students (M.S./Ph.D.) received Waste Management Certificates in December 2018 and May 2019 at special ceremonies. The students completed their degree and certificate requirements. The keynote speakers were Dr. Mohamed Ahmedna, dean of the College of Agriculture and Environmental Sciences in December 2018 and Dr. Clay Gloster, interim dean, Graduate College in May 2019. Dr. Tonya Smith-Jackson, senior vice provost for academic affairs and Ms. Jacque Powers, interim associate vice provost for enrollment management represented the Division of Academic Affairs. 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. ■

### KEYNOTE SPEAKERS



Dr. Mohamed Ahmedna



Dr. Tonya Smith-Jackson



Dr. Clay Gloster



Jacque Powers

## ADVANCED WASTE MANAGEMENT CERTIFICATE RECIPIENTS

Ese Ekhaton	Agricultural and Environmental Systems
Hietam Elhoone	Industrial and Systems Engineering
Indigo Green	Chemical Engineering
Nnenna Ihebuzor	Agricultural and Environmental Systems
Eric Ntow	Chemistry
Uchenna Okefi	Agricultural Business
Oluyemi Olatunji	Agricultural Business
Ayodele Olofinsao	Agribusiness and Food Industry Management
Raheem Outlaw	Natural Resources and Environmental Systems
Omoyeni Salawu	Agribusiness and Food Industry Management
Chiagozie Uzochukwu	Chemical Engineering
Roger Vorsah	Agricultural and Environmental Systems



Dr. Uzo and Chiagozie Uzochukwu



Hietam Elhoone and Dr. Uzo

## CAREER PATHS FOR GRADUATES WHO RECEIVED THE WMI CERTIFICATES

### MAJOR

Animal Science  
 Biology  
 Business  
 Chemistry  
 Communication  
 Construction Management  
 Criminal Justice  
 Economics  
 Education  
 Environmental Studies/Science  
 Engineering  
 Journalism  
 Landscape Architecture  
 Mathematics  
 Nursing  
 Occupational Safety and Health  
 Other  
 Physics  
 Political Science  
 Psychology  
 Sociology  
 Social Work

### CAREER PATH

Environmental Health and Science  
 Environmental Biology  
 Environmental Business  
 Environmental Chemistry  
 Environmental Communication  
 Environmental Safety  
 Environmental Crimes  
 Environmental Economics  
 Environmental Education  
 Environmental Scientists/Consultants/Specialists  
 Environmental Engineering  
 Environmental Journalism  
 Environ Design/Visual Resource Specialist  
 Environmental Mathematics/Statistics  
 Environmental Health/Occupational Safety  
 Environmental Safety  
 Environmental Consultants  
 Environmental Physics  
 Environmental Policy/Politics  
 Environmental Psychology  
 Environmental Sociology  
 Environmental Social Justice



## ENVIRONMENTAL SECURITY, SUSTAINABILITY AND WASTE MANAGEMENT WORKSHOP

Pre-College Workshop on Environmental Security, Sustainability and Waste Management was conducted for 40 high school students and teachers in June and July 2018. The theme of the workshop was "Environmental Security and Waste Management" highlighting challenging environmental security, sustainability and waste management questions.

## ENVIRONMENTAL AND WASTE MANAGEMENT GUEST SPEAKERS (Big Ideas and New Perspectives)

- O'Brien & Gere Ltd - Site Remediation
- Waste Industries USA - Tour of Landfill Bio Gas to Electricity
- Environmental Protection Agency - Environmental Compliance
- City of Greensboro - Waste Reduction and Recycling
- Hackley and Associates - Ethics and leadership
- Peace Corps - Global Environmental Issues
- South Carolina State University - Course Driven Internship



Dale Wyrick



Mike Hall



Chris Walker



Students are addressing the convergence of physical sciences, social sciences, engineering, technology and life sciences for accelerating environmental solutions.



Student Round Table Discussion and Presentation of Waste Management Issues

## Sustainability Leadership at 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, waste management, water usage, transportation and education. Interdisciplinary 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.



## WMI Noteworthy

- Campus-wide resource for faculty and students
- Implementing Recycling Design Thinking
- Awarded 2,157 WMI Certificates
- Adding Value to degree programs
- Facilitated top 2 percent (No. 14 overall) and No. 4 in USA rankings UI Green Metric – University Sustainability World Ranking for N.C. A&T 2017
- Selected No. 1 by the Environmental Careers Organization
- 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)
- Enhances student retention and graduation – scholarships and internships
- Forum for Big Ideas – created EES PhD
- Forum for exchange of big ideas among students from different disciplines
- Forum for exchange of big ideas among faculty members from different disciplines
- Brings environmental industry leaders to campus
- Promotes economic growth for the City of Greensboro through national conferences
- Offers best interdisciplinary support courses
- Promotes Big Ideas of Sustainability – Infrastructure, Energy and Power, Transportation, Water Conservation, Waste Management and Education.

We welcome creative ideas that are suitable for inclusion in the EnviroNews. Send a brief summary of your ideas to: WMI, Carver Hall • 261 North Carolina A&T • Greensboro, NC 27411  
 • PHONE: 336 334-7030  
 • FAX: 336 334-7399  
 • Email: [uzo@ncat.edu](mailto:uzo@ncat.edu)

**From the Editorial Staff:**  
 For more information about the Waste Management Institute call, fax or write Director, Waste Management Institute, 1601 East Market Street, North Carolina A&T State University, Greensboro, NC 27411  
**336 334-7030 • FAX 336 334-7399**  
**Email: [uzo@ncat.edu](mailto:uzo@ncat.edu)**

**WMI Mission:** Enhance awareness and understanding of waste problems and their management in our society and develop programs to improve the quality of life and protect the environment.

North Carolina A&T State University is a land-grant doctoral/research university and AA/EEO employer

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.

### Interdisciplinary WMI Program Committee and Think Tank

Felicia Anike, Ph.D.  
 Niroj Aryal, Ph.D.  
 Michael Atkinson  
 Fafanyo Asiseh, Ph.D.  
 Omar Basha, Ph.D.  
 Kory Bennett, Ph.D.  
 Heather Colleran, Ph.D.  
 Derome Dunn, Ph.D.  
 Godfrey Ejimakor, Ph.D.  
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 George Robinson, Ph.D.  
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 Mary Smith, Ph.D.  
 Stephanie Luster Teasley, Ph.D.  
 Godfrey Uzochukwu, Ph.D.  
 Tobin N Walton, Ph.D.  
 Renzun Zhao, Ph.D.

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