

ENVIRONNEWS

Waste Management Institute

UNDER THE LEADERSHIP OF THE COLLEGE OF AGRICULTURE AND ENVIRONMENTAL SCIENCES - GODFREY UZOUCHUKWU, PH.D, DIRECTOR



Godfrey Uzochukwu, PhD,
Senior Professor
Director

The Interdisciplinary Waste Management Institute (WMI) - enabling waste management sustainability education and environmental sciences at North Carolina Agricultural and Technical State University.

INTERDISCIPLINARY ACADEMIC AFFILIATE UNITS

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

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INTERDISCIPLINARY
WASTE MANAGEMENT
INSTITUTE

CHANCELLOR – James Martin II, Ph.D

Environmental Symposium Kicks Off the Memorandum of Understanding (MOU) Between North Carolina Agricultural and Technical State University and the United States Environmental Protection Agency

The purpose of the September 9, 2024 symposium was to strengthen partnership and collaboration between North Carolina Agricultural & Technical State University (N.C. A&T) and the United States Environmental Protection Agency (US EPA). This US EPA and N.C. A&T Environmental Symposium seeks to foster dialogue among environmental experts, researchers, faculty, and students committed to environmental stewardship. The symposium provided a

platform for sharing innovations in cutting-edge research, best practices, and emerging technologies that can effectively mitigate the impacts of environmental pollution. The symposium emphasized the need for integrated approaches to tackle the complex issues of air, water, soil, and waste management. The day-long symposium featured platform and poster presentations, questions and answers, and networking opportunities designed to turn knowledge into action according to Dr. Godfrey Uzochukwu, Co-Chair of the symposium. The keynote speaker was Dr. Christopher Frey, Assistant Administrator for ORD, US EPA.

North Carolina Agricultural and Technical State University (N.C. A&T) and the United States Environmental Protection Agency (US EPA) signed a Memorandum of Understanding (MOU) on December 8, 2023. The purpose of this Memorandum of Understanding (MOU) is to increase cooperation between North Carolina Agricultural and Technical University (N.C. A&T) and the United States Environmental Protection Agency in areas of mutual interest. Implementation of the program activities in this MOU advances the development of the full human capital and contribute to NC A&T's capacity to provide high-quality education, and encourage the participation of N.C. A&T in EPA programs.



Dr. Godfrey Uzochukwu, left, welcomes Interim Dean Shirley Hymon-Parker and Dr. Christopher Frey, assistant administrator in the U.S. Environmental Protection Agency's Office of Research and Development, to an environmental symposium highlighting the office's research and engagement opportunities.

North Carolina A&T University Point of Contact

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EPA Office of Research and Development Point of Contact

Lara P. Phelps, Director
U.S. Environmental Protection Agency
phelps.lara@epa.gov

EPA Region 4 Point of Contact

Jeannie Williamson, Coordinator
U.S. Environmental Protection Agency
williamson.ieannieepa.gov

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



Interdisciplinary Waste Management Certificate Recipients (2023/24)

Graduating seniors (B.A./B.S.) and graduate students (M.S./Ph.D.) received Waste Management Certificates at special ceremonies in December 2024 and May 2025. The students completed their degree and certificate requirements. The Waste Management Certificate highlights the training of students in environmental 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.



Undergraduate WMI Certificate Conferred (2024/25)

Name	Major
Zachary Reginal Alston	Biological Engineering
Cierra Maemma Anderson	Sustainable Land and Food Systems
Autumn Barksdale	Environmental Studies
D'Karia Eliza Bascom	Lab Animal Science
Michael Bryant	Sustainable Land & Food Systems
Ian Chambers	Architectural Engineering
Brandon Lee Daye	Agribusiness/Food Industry Mgmt.
Michael Diirio	Sustainable Land & Food Systems
Amaya Fisher	Environmental Health & Safety
Andrew David Flynn Jr.	Architectural Engineering
Milan Ford	Animal Science
Brooke Hemric	Lab Animal Science
Justin Shane Henderson	Environmental Health & Safety
Elizabeth Henzie	Biology
Oreoluwa Idowu	Biology
Rahzel Khalif	Architectural Engineering
Maria Landivar Olmos	Architectural Engineering
Miles Lee	Sustainable Land & Food Systems
Antoinette Lorfls	Lab Animal Science
Camille McEachern	Environmental Studies
Talea Rivera	Environmental Studies
Kayla Taylor	Biological Engineering
Deatra Thomas	Environmental Health & Safety
Ashley Michelle Thompson	Architectural Engineering
Wafik Sama	Environmental Studies
Laila Marie Waddell	Political Science

Environmental and Waste Management Guest Speakers (Big Ideas and New Perspectives)

US EP, RTP

Kelly Witter, Hillary Ward, Goodwin Reginald, Tonisha Dawson, Lamont Baldwin, Toni Jones, Amanda-Jean Blackburn, Tiffany King and Gloria Gaines

EPA Region 4

John Sheesley, Sheryl Good, Caroline Freeman and Rajeev Martin

Gates

Abiola Fabunmi and Jennifer Dominick

Interdisciplinary Graduate Level Environmental Certificates Conferred (2024/25)

Breanna Monai Davis	Interdisciplinary Environmental Certificate
Abby Rose Kluttz	Environmental Science
Samuel Pierre	Interdisciplinary Environmental Certificate

40 Hour Hazmat Training Certificates Awarded (24/25)

Alston, Zachary	Biological Engineering
Anderson, Cierra	Sustainable Land Management
Azmat, Laraib	Chemical Engineering
Barksdale, Autumn	Environmental Studies
Fisher, Amaya	Environmental Health and Safety
Joshua Lindsey	Environmental Health and Safety
Phillips, Xavier	Architectural Engineering
Taylor, Kayla	Biological Engineering
Thomas, Deatra	Environmental Health and Safety
Thompson, Ashley	Architectural Engineering
Adebayo, Seyi	Integrated Animal Health
Alababneh, Ibrahim	Natural Resources
Darko, Doreen	Food and Nutritional Sciences
Ferguson, Ashton	Chemical Engineering
Marafa, Marian	Food and Nutritional Sciences
Ugbem, Christina	Food and Nutritional Sciences



Advanced WMI Certificate Recipients and Faculty (2024/25)

NAME	MAJOR
Kelechi Ike	Bioscience
Oluwatobiloba Adetokunbo Kalejaiye	Mechanical Engineering
Matthew O. Akindoyin	Integrated Animal Health
Edmond Kwekutsu	Agricultural and Environmental Systems
Anthonia Nwabudike	Civil Engineering
Deborah Olabisi Okedoyin	Integrated Animal Health
Sushmita Roy	Agricultural & Environmental Systems
Christiana Omojo Ugbem	Food & Nutritional Sciences



N.C. A&T AND EPA SYMPOSIUM POSTERS

Dr. Uzo, Dr. Ejimakor and Genesis Ibrahim Balogun
(Environmental Studies Major)



MONITORING SOIL MOISTURE DYNAMICS IN A CORNFIELD

Department of Natural Resources and Environmental Design – N.C. A&T
Adelabu, Anuoluwapo and Masasi, Blessing

ESSENTIAL OILS AND FUMARIC ACID: GREEN SOLUTIONS TO COMBAT CLIMATE CHANGE AND ENHANCE LIVESTOCK SUSTAINABILITY

Dept. of Animal Sciences – N.C. A&T
Alabi, Joel and Anele, Uchenna Y.

METABOLOMICS ANALYSIS INVESTIGATING THE IMPACTS OF ESSENTIAL OIL BLENDS AND FUMARIC ACID ON RUMEN FLUID METABOLITE IN DAIRY COWS USING A RUSITEC SYSTEM

Dept. of Animal Sciences – N.C. A&T
Alabi, Joel and Anele, Uchenna Y.

BIOCHAR AND ITS IMPLICATIONS ON CARBON SEQUESTRATION AND CLIMATE CHANGE

Office of Research and Development
U.S. Environmental Protection Agency (ORD/USEPA)
Boddu, Veera, Brook, Lance and Morales, Justin

EVALUATING THE WATER QUALITY OF NORTHEAST CREEK AND LITTLE RIVER WATERSHEDS IN DURHAM NORTH CAROLINA

Department of Natural Resources and Environmental Design – N.C. A&T
Bryant, Noah and Spence, Porché L.

AN ANALYSIS OF PRO-ENVIRONMENTAL BEHAVIORS: HELD BY MEMBERS OF BLACK GREEK-LETTER ORGANIZATIONS

Dept. of Agribusiness, Applied Economics, and Agriscience Education
– N.C. A&T
Caldwell, Lawren

ASSESSING ABOVE-GROUND FUEL STORAGE TANKS USING LOWER-COST SENSOR PACKAGES AND TRIGGERED CANISTER SAMPLES: A CASE STUDY IN GREENSBORO, N.C.

Office of Research and Development
US Environmental Protection Agency
Champion, W.M, MacDonald, M., Thomas, B., Carpenter, J., George, I., Thoma, E.

SURFACE-TREATED FUMED SILICA IN POLYDIMETHYLSILOXANE (PDMS) MIXED MATRIX MEMBRANE FOR CO₂ SEPARATION APPLICATION

Dept. of Applied Science and Technology
– N.C. A&T
Chowdhury, Murshid Jaman; Lou, Jianzhong; Kuila, Debasish; and Mukherjee, Debarati

EXPLORING COTTON IRRIGATION THROUGH DIGITAL AGRICULTURE

Dept. of Natural Resources and Environmental Design – N.C. A&T
Genesis, Ibrahim-Balogun; Yanez, Dylan; Cook, Hallie; Thompson, Nicholas; Alcarez, Ryan; Kim, Delwin; Poole, Sam; and Westin, Babyak.

HEALTHY HOMES WALKTHROUGH ASSESSMENT, ALONG WITH ANALYSIS OF AN EDUCATIONAL COMPONENT FOR 41 HOMES IN GREENSBORO, N.C.

Dept. of Built Environment – N.C. A&T
Henderson, Justin Shane

EFFECT OF OLIGOSACCHARIDE COMBINATIONS AND A TREATMENT WITH ESSENTIAL OIL AND FUMARIC ACID ON GREENHOUSE GASES AND PREDICTED FUNCTIONAL GENE PROFILE OF DAIRY CATTLE USING AN IN VITRO BATCH CULTURE

Department of Animal Science – N.C. A&T
Ike, Kelechi A.; Dele, Peter A.; Wuaku, Michael; Alabi, Joel O.; Adelusi, Oludotun O.; Anotaeuwere, Chika C.; Okedoyin, Deborah O.; Enikuomehin, James M.; Padilla-Arroyo, Amsiray; Olagunju, Lydia K.; Kholif, Ahmed E.; Thomas Misty D.; and Anele, Uchenna Y.

ADVANCEMENTS IN EPOXY COATINGS BY ENHANCING CORROSION RESISTANCE AND SELF-HEALING CAPABILITIES

Dept. of Materials Science & Engineering
Jackson State University
Johnson, Sancenja; Harper, David Paul; Pekol, and Collin Matthew

THE EVALUATION AND EVOLUTION OF THE OFFICE OF MARINE AND AVIATION OPERATIONS FLIGHT HOUR DATABASE MANAGEMENT

Office of Marine and Aviation Operations (OMAO)
National Oceanic and Atmospheric Administration (NOAA)
Lockett, Peyton; Doremus, Lieutenant Commander Kevin; Ruiz, Yessica; Clyburn, Reginald; Hathaway, Nikki; and Blancher, Justin

DATA FUSION OF COMMUNITY-GENERATED ODOR REPORTS AND EMISSIONS MEASUREMENTS

Office of Research and Development U.S. Environmental Protection Agency MacDonald, Megan; Champion, Wyatt; Thoma, Eben; George, Ingrid; and Duvall, Rachelle

NUTRIENT ALLOCATION DURING BIOWEATHERING ACROSS A GLACIAL CHRONOSEQUENCE: INSIGHTS FROM THE STORGLACIÄREN FOREFIELD, TARFALA RESEARCH STATION

Jackson State University
Miles, Kevia M; Oti, Chelsea; Rivera, Serafina; Gianturco, Sarah; Raker, Pia; Schaefer, Sean R; Ernakovich, Jessica; Frey, Serita; Ibrahim, Naira; Kirchner, Nina; Larson, Keith; Tisa, Louis; Varner, Ruth; Bryce, Julia G; Kafoury, Ramzi; McDaniels, P.

INTEGRATING SWAT+ AND CE-QUAL-W2 MODELS TO ASSESS ITS SUITABILITY IN SIMULATING WATER QUALITY OF A LAKE

Department of Civil, Architectural and Environmental Engineering – N.C. A&T
Nwabudike, Anthonia and Jha, Manoj K.

LEAD DISTRIBUTION IN URBAN SOIL IN A MEDIUM-SIZED CITY: HOUSEHOLD-SCALE ANALYSIS

Dept. of Built Environment – N.C. A&T
Obeng-Gyasi, Emmanuel

ASSESSING THE EFFECTIVENESS OF THE NATIONAL FLOOD INSURANCE PROGRAM

Dept. of Agribusiness, Applied Economics & Agriscience Education – N.C. A&T
Odeyomi, Omowunmi A. and Ejimakor, Godfrey C.

MODULATION OF ELASTASE ACTIVITY IN BOVINE NEUTROPHILS BY ENDOTOXIN AND GARLIC

Department of Animal Science – N.C. A&T
Pande, Priyanka, Uzamman, Md. Rasel; Price, Nyema; Ghimire, Sanjaya; and Worku, Mulumebet.

DEVELOPMENT OF ROBUST METHODS TO MONITOR MILK COMPOSITION AND DAIRY PROCESSING EFFLUENT ENVIRONMENTAL IMPACTS.

Department of Animal Science – N.C. A&T
Price, Nyema; Worku, Mulumebet; Uzamman, Md. Rasel; Pande, Priyanka; and Ghimire, Sanjay

ASSESSING GROWTH AND YIELD PERFORMANCE OF MICROPROPAGATED GINGER GROWN IN NATURAL WOODS

Department of Natural Resources and Environmental Design – N.C. A&T
Robinson, Julia C; Lashley, William; Yang, Guochen; McGee, Treguan; Tetteh, Daniel; Zipporia Moore, Talton, Hannah; and Minor, Radial.

REMOVAL OF COMMONLY USED ANTIBIOTICS IN AGRO-FARM USING ECOLOGICAL ENGINEERING TECHNIQUES

Department of Natural Resources and Environmental Design – N.C. A&T
Roy, S; Shajib, M. T. I.; and Aryal, N.

EFFECT OF DIFFERENT IRRIGATION LEVELS ON THE GROWTH AND YIELD OF TOMATOES

Department of Natural Resources and Environmental Design – N.C. A&T
Somefun, Olabisi Tolulope and Masasi, Blessing

SIMULATING CONSERVATION PRACTICES' EFFECT ON NUTRIENTS AND SEDIMENT LOAD REDUCTION AND CROP PRODUCTION FROM COMMERCIAL COTTON FIELDS USING APEX

Department of Natural Resources and Environmental Design – N.C. A&T
Thapa, A; Aryal, N; Reba, M.L.; Teague, T.G.; Payne, G; and Pieri, A

FROM SENSORS TO SATELLITES, IMPROVED UNDERSTANDING AND CONTROL OF METHANE EMISSIONS FROM LANDFILLS USING NEXT GENERATION EMISSION MEASUREMENTS

Office of Research and Development
United States Environmental Agency
Thoma, Eben D.; Krause, Max J.; MacDonald, Megan K.; Champion, Wyatt M.; Bryant, Ami; Thorneloe, Susan; Ludwig, Sarah M.; and Walker, John T.

DETECTION OF PROTEINS IN SHEEP PLASMA TO IDENTIFY APOPTOSIS INDUCED BY ENVIRONMENTAL EXPOSURE

Dept. of Animal Sciences – N.C. A&T
Uzzaman, Md. Rasel; Pande, P.; and Worku, M.

OPTIMIZATION OF OIL SELECTION FOR ENHANCED TEXTURAL AND CHROMATIC ATTRIBUTES IN PLANT-BASED SURIMI

Food and Nutritional Sciences Program, North Carolina A&T State University, Greensboro
Valizadeh, Shahriyar; Oyom, William; and Tahergorabi, Reza.

ADVANCING ENVIRONMENTAL JUSTICE THROUGH SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH (STEM) EDUCATION

Research Triangle Park, N.C.
US Environmental Protection Agency
Witter, Kelly; Blackburn, A.J.; and Pollock, Ainsley.

SHORT-TERM STREAMFLOW PREDICTION USING UNIVARIATE TIME SERIES FORECASTING AND AI TECHNIQUES

Department of Applied Science and Technology – N.C. A&T
Workneh, Habtamu and Jha, Manoj K.

Career Paths for Graduates Who Received WMI Certificates

MAJOR / 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

Other

Environmental Consultants

Physics

Environmental Physics

Political Science

Environmental Policy/Politics

Psychology

Environmental Psychology

Sociology

Environmental Sociology

Social Work

Environmental Social Justice

WMI NOTEWORTHY SUMMARY

- Conferred 2,500 certificates that add 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 PhD (Renamed Science and Technology PhD); Informed Interdisciplinary Leadership Studies PhD; Inspired the creation of Interdisciplinary Computational Science and Engineering PhD; 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 & 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.
- WMI 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 percent 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
- Top 3 HBCU for Environmental Science – The Advocate, 2023

WMI Interdisciplinary Steering Committee

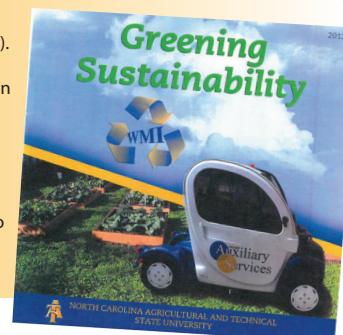
Derome Dunn, PhD	Department of Mechanical Engineering
Renzun Zhao, PhD	Department of Civil and Architectural Engineering
Godfrey Ejimakor, PhD	Department of Agribusiness
Alesia Ferguson, PhD	Department of Built Environment
Gregory Goins, PhD	Department of Natural Resources
George Robinson, PhD	(Psychologist), Department of Psychology
Godfrey Uzochukwu, PhD	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
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, Ph.D.	College of Agriculture and Environmental Sciences
Clayton Clark II, Ph.D.	College of Engineering
Carla Denise Coates, Ph.D.	College of Arts, Humanities and Social Sciences
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
Manoj Jha	College of Engineering
Louis Jackai, Ph.D.	College of Agriculture and Environmental Sciences
Jianzhong Lou	College of Engineering
Blessing Masasi, Ph.D.	College of Agriculture and Environmental Sciences
Radiah Minor, Ph.D.	College of Agriculture and Environmental Sciences
Abubakarr Mansaray	College of Agriculture and Environmental Sciences
Muditha Senanayake	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

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-PL. 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

Memorandum of Understanding EPA (MOU) Workgroup

- **Lara Phelps**, Director – Air Methods and Characterization Division, Center for Environmental Measurement and Modeling, Office of Research and Development, US EPA
- **Louie Rivers**, Social Science Lead, Office of Research and Development, US EPA
- **Samuel Scott**, Program Analyst (Specializing in Memorandums of Understanding), Office of Resource Management (EMD-PFTTB), Office of Research and Development, US EPA
- **Rhea Jones**, Deputy Director, Health and Environmental Impacts Division, Office of Air Quality Planning and Standards, US EPA
- **Hillary Ward**, Community and Tribal Program Group Leader, Outreach and Information Division Office of Air Quality Planning and Standards, US EPA

N.C. A&T MOU Workgroup

- **Dr. Clayton Clark**, Associate Dean, College of Engineering
- **Dr. George Robinson**, Chair, College of Health and Human Sciences
- **Dr. Ben Uwakweh**, Professor, College of Science & Technology
- **Tamaka Coly**, Lecturer, College of Engineering
- **Dr. Chantel Simpson**, Assistant Professor, College of Agriculture and Environmental Sciences
- **Keith Coleman**, Senior Lecturer and Associate Chair, College of Arts, Humanities and Social Sciences
- **Dr. Godfrey Uzochukwu**, Senior Professor and Director, Interdisciplinary Waste Management Institute, College of Agriculture and Environmental 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:

For more information about the WMI call, fax or write Director, Waste Management Institute, 1601 East Market Street, N.C. A&T State University, Greensboro, NC 27411

- (336) 334-7030
- FAX (336) 334-7399
- Email: uzo@ncat.edu

We welcome creative ideas that are suitable for inclusion in the EnviroNews. Send a brief summary of your ideas to:
WMI, Carver Hall 259
North Carolina A&T
Greensboro, NC 27411
Phone: (336) 334-7030
Email: uzo@ncat.edu

REDUCE RECYCLE REUSE REDESIGN REIMAGINE