



ENVIRONNEWS

Waste Management Institute

UNDER THE LEADERSHIP OF THE SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIVERSITY

National Atmospheric Deposition Program (NADP) Monitoring Station at N.C. A&T.



Dr. Godfrey Uzochukwu with Janelle Robinson (L) and Emmanuel Oleka (R)

The National Atmospheric Deposition Program, nationally known as NC 17 was established with a U.S. Department of Energy grant. North Carolina A&T State University is collaborating with South Carolina State University to operate the station. A&T researchers, graduate and undergraduate students are responsible for collecting contaminant data including atmospheric mercury and atmospheric ammonia which are integrated into results from other NADP stations across the United States. Sample handling has been worked out between the University of

Illinois and A&T. The NADP station became operational in January 2015. The station provides insight into changing atmospheric chemistry, assesses sensitive ecosystems, and validates atmospheric models. Of particular interest are major physiographic, agricultural, aquatic, and forested areas within states, regions, and eco-regions. Dennis Jackson of Savannah River National Laboratory (SRNL) and Glenn McClendon of South Carolina State University in conjunction with Jeffery Pribble and Jason Karlstrom of the University of Illinois are providing technical support for the operation of the NC 17 station.

Professor Uzochukwu calls for Environmental Sustainability at the University of Nigeria

Professor Godfrey Uzochukwu was the guest speaker at an international workshop where he called for “Environmental Sustainability” in Nigeria. The workshop was hosted by the University of Nigeria, Nsukka (UNN). The workshop highlighted climate change, water resources, waste management, renewable energy and environmental education and outreach. Professor Uzochukwu noted that the world faces unprecedented challenges such as population growth, global warming, and overexploitation of natural resources, energy, water and food shortages.



Dr. Godfrey Uzochukwu with UNN graduate students

He stated that “higher education has a crucial role to play in addressing these challenges”. He said that waste reduction and recycling activities are major factors in creating a sustainable environment. The vice-chancellor of UNN, Professor Benjamin C. Ozumba who was represented by the deputy vice chancellor for administration, Professor Edwin Igbokwe in his welcome address said that the workshop was apt, bearing in mind the challenges that confronts us in terms of sustaining the environment. In addition, the director, of the African Climate Change Adaptation Initiative at UNN, Professor Anthonia I. Achike said that “there was a need to raise awareness of environmental sustainability issues in order to combat the challenges of climate change”. Other facilitators at the workshop include Professor I. G. Madu; Professor C. C. Mbajiorgu; Professor M. I. Uguru, Professor F. Ezema and Olanrewaju Mboji.



Professor Godfrey Uzochukwu and Professor Anthonia Achike | Professor Godfrey Uzochukwu and Deputy Vice Chancellor Edwin Igbokwe

INTERDISCIPLINARY ACADEMIC UNITS

- ANIMAL SCIENCES
- AGRICULTURAL EDUCATION
- AGRICULTURAL ECONOMICS
- ARCHITECTURAL ENGINEERING
- BIOLOGY
- BIOLOGICAL ENGINEERING
- BUSINESS MANAGEMENT
- CHEMICAL ENGINEERING
- CHEMISTRY
- CIVIL ENGINEERING
- COMPUTER SCIENCE
- CONSTRUCTION MANAGEMENT & SAFETY
- CURRICULUM & INSTRUCTION
- ECONOMICS
- ELECTRICAL ENGINEERING
- HISTORY
- HUMAN ENVIRONMENT & FAMILY SCIENCE
- INDUSTRIAL 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. Joe B. Whitehead Jr., Provost
- Dr. Harold L. Martin Sr., Chancellor



Dr. Godfrey Uzochukwu and Stephanie Turgem

Students Receive Waste Management Certificates

Forty-six graduating seniors (B.A./B.S.) received the Waste Management Certificates in December 2014 and May 2015 at special ceremonies. The graduating seniors completed their degree and certificate requirements. The keynote speakers were Dr. Melody Pierce, vice chancellor for Student Affairs at N.C. A&T (December 2014) and Dr. Goldie Byrd, dean of the College of Arts and Sciences at N.C. A&T (May 2015). 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 students are ready to broadly advance waste management and sustainability in their fields. The certificate adds value to the undergraduate training at A&T.

Undergraduate Interdisciplinary Certificate Recipients

Celena Alford	Biological Engineering	Amir Johnson	Marketing
Quinton Allison	Applied Engineering & Technology	David N. Jordan	Civil Engineering
Cameron R. Anderson	Atmospheric Science & Meteorology	Janie G. Locklear	Civil Engineering
Jacqueline Annette Batts	Biological Engineering	Franklin E. Macha	Civil Engineering
Marvin D. Bolden	International Studies	Christopher A. Moody	Civil Engineering
Amber Satira Brown	Environmental Horticulture	Seyara Moore	Agricultural Education
Derek Anthony Burris	Civil Engineering	Temitope O. Olaniyan	Civil Engineering
Vanessa L. Cortes	Civil Engineering	Christopher John Porter	Civil Engineering
LaKeisha S. Crump	Liberal Studies	Yillian E. Rivera-Cruz	Civil Engineering
Rachel A. Davis	Architectural Engineering	Courtney Rouse	Chemical Engineering
Delmonica Tashon Farrior	Food Science & Env. Sciences	Micah Noel Rollie	Lab. Animal Science
Nina Fuller	Elementary Education	Jason D. Sansbury	Civil Engineering
Marcus S. Gibson	Liberal Studies	Jasmine Layne Scott	Agricultural Education
Kadija Gittens	Civil Engineering	Sharon R. Scotton	Liberal Studies
Nabonidus Sholom Greene	Civil and Arch. Engineering	Teneil L. Sivells	Biological Engineering
Emmanuel Kwame Gyimah	Mechanical Engineering	Kenny DeAndre Smith	Construction Management
Ronald B. Hall Jr.	Animal Industry	Jalen P. Speller	Animal Science
Darriel C. Hawkins	Civil Engineering	Allahquan L. Tate	Civil Engr. and Arch. Engr.
Cierra LaDorothy Haynie	Agricultural & Env. Systems	Stephanie Noelle Turgeon	Civil Engineering
Liamcy Ashley Hogan-Rivera	Civil Engineering	Nicholas Devon Vitalis	Environmental Science
AnJanette B. Hunt	Elementary Education	Marcellous Jermaine Williams	Liberal Studies
Jasmine A. Jeffries	Biological Engineering	Neque Nekole' Willis	Supply Chain Management



Dr. Godfrey Uzochukwu and Franklin Macha

Graduate Students Waste Management Certificates

Ten graduate students (M.S. and Ph.D.) received the Advanced Waste Management Certificate in December 2014 and May 2015 at special ceremonies. The advanced certificate recipients completed advanced degree and advanced certificate requirements. The keynote speakers were Dr. Melody Pierce, vice chancellor for Student Affairs at N.C. A&T (December 2014) and Dr. Goldie Byrd, dean of the College of Arts and Sciences at N.C. A&T (May 2015). 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 advanced students are ready to broadly promote waste management and sustainability in their fields. The advanced certificate adds value to the graduate training at A&T.

Brianne N. Bass	Environmental Health & Safety
Benard Chola	Civil Engineering
Emmanuel Adegbeniga Dada	Environmental Health & Occ. Safety
Asif Kamal Md Rezwani Kabir	Mechanical Engineering
Ekwemalor Kingsley	Integrated Animal Health Systems
Dawit Admasu Melaku	Civil Engineering
Eric Meline	Chemistry
Quazi Rahman	Chemical Engineering
Regina Rafik	Food and Nutritional Sciences
Anup Saha	Civil Engineering



Dr. Godfrey Uzochukwu and Emmanuel Dada



Dr. Godfrey Uzochukwu and Brianne Bass

KEYNOTE SPEAKERS



Dean Goldie Byrd



Vice Chancellor Melody Pierce

N.C. A&T is a Global Leader in Environmental Sustainability

For two consecutive years 2013 and 2014, N.C. A&T was ranked in the top 7 percent in the world for University Sustainability by UI GreenMetric Ranking of World Universities. The results are drawn from infrastructure (15 percent), energy and climate change (21 percent), waste management (18 percent), water usage (10 percent), transportation (18 percent), and education (18 percent), provided by universities online. Universitas Indonesia (UI) is a state university with an enrollment of 47,000. Additionally, N.C. A&T earned Silver level recognition for student sustainability for the 2014 fall semester under the leadership of Jordan Smith-Jones, Environmental Studies junior. Recognition is awarded on four different levels: Green Level, Silver Level, Gold Level, and Platinum according to Kristine Sturgeon of myActions network. Eighty-seven schools were recognized for excellence in environmental sustainability during the Fall 2014 Semester

Environmental Security and Waste Management Workshop

Pre-College Workshop on Environmental Security and Waste Management was conducted for 77 high school students and teachers in June and July 2014. The theme of the workshop was “Environmental Security and Waste Management” highlighting 62 environmental questions.

Environmental and Waste Management Guest Speakers

O'Brien & Gere Ltd

- Asbestos Remediation (Nathan Simmons)
Waste Industries USA
- Biogas Reactors and Landfill Gas Monitoring Field Trip (Bryan Wuester)
Environmental Protection Agency
- Carbon Reduction Regulations (Dr. Tina Nдох)
- Environmental Policies (Attorney Marguerite E. McLamb)
- Rule Making (Toni Jones)
City of Greensboro
- Waste Reduction and Recycling (Sheldon Smith)
ReCommunity
- Recycling technologies (Mary McClellan)
Hackley and Associates
- Ethics, Character and Leadership (Dr. Lloyd Hackley)
Peace Corps
- Global Sustainability Issues John Paul Owens)

Career Paths for Graduates Who Received the WMI Certificates

MAJOR

Animal Science Majors
Biology Majors
Business Majors
Chemistry Majors
Communication Majors
Construction Mgmt Majors
Economics Majors
Education Majors
Engineering Majors
Journalism Majors
Landscape Architecture Majors
Mathematics Majors
Nursing Majors
OSHA Majors
Other Science Majors
Physics Majors
Political Science Majors
Psychology Majors
Sociology Majors

CAREER PATH

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

Tour of Landfill Gas Facility



Hazmat Training



Student Round Table Discussion and Presentation of Waste Management Issues



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

Environmental Leadership at A&T

North Carolina Agricultural and Technical State University has a history of providing leadership in addressing environmental sustainability issues through interdisciplinary centers, institutes and academic programs at all degree levels. These interdisciplinary collaborations have made the university a major contributor to understanding sustainability on a global scale. The university has taken advantage of the 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 recycling program and encouraged everyone to recycle. The goal of the recycling program is to improve the quality of life now and in the future.

World Class WMI Affiliated Faculty



Noteworthy

- Best performing professors are affiliated with WMI
- Best performing students are affiliated with WMI – Wayne Kimball, former SGA President.
- Campus wide resource for faculty and students.
- Facilitated top 10 overall 2013 Green Metric – University Sustainability Ranking for N.C. A&T.
- Selected #1 by the Environmental Careers Organization.
- Recognized by the Greensboro Chamber of Commerce as an innovative environmental program.
- Top 28 interdisciplinary institute/center in the nation (2013 NCSE report). 360 were profiled.
- Enhances student retention and graduation – scholarships and internships.
- Forum for Big Ideas – created EES Ph.D. Program and facilitated Campus Sustainability.
- Forum for exchange of ideas among students from different disciplines.
- Forum for exchange of 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 Green Campus – Recycling, energy conservation and water conservation.

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
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From the Editorial Staff:

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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 and Waste Management issues.

INTERDISCIPLINARY WMI PROGRAM COMMITTEE

Dr. Derome Dunn	College of Engineering
Dr. Vereda Williams	School of Business & Economics
Dr. Tracy Hanner	School of Agriculture & Environmental Science
Dr. Patricia Shelton	School of Nursing
Mr. Ron Bailey	College of Engineering
Dr. Regina Williams	College of Arts and Sciences
Dr. Erika Williams	School of Education
Dr. Linda Florence Callahan	College of Arts & Sciences
Dr. Ralph Noble	School of Agriculture and Environmental Sciences
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Dr. Mary Smith	College of Arts and Sciences



REUSE REDUCE

CYCLE

REDESIGN

REIMAGINE

