

ENVIRONNEWS®

Waste Management Institute

NORTH CAROLINA AGRICULTURAL & TECHNICAL STATE UNIVERSITY

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INTERDISCIPLINARY ACADEMIC UNITS

- ANIMAL SCIENCES
- AGRICULTURAL EDUCATION
- AGRICULTURAL ECONOMICS
- ARCHITECTURAL ENGINEERING
- BIOLOGY
- BIOENVIRONMENTAL ENGINEERING
- BUSINESS ADMINISTRATION
- CHEMICAL ENGINEERING
- CHEMISTRY
- CIVIL ENGINEERING
- COMPUTER SCIENCE
- JOURNALISM AND MASS COMMUNICATIONS
- CONSTRUCTION MANAGEMENT & SAFETY
- CURRICULUM & INSTRUCTION
- ECONOMICS
- ELECTRICAL ENGINEERING
- HISTORY
- HUMAN ENVIRONMENT & FAMILY SCIENCE
- INDUSTRIAL ENGINEERING
- MATHEMATICS
- MECHANICAL ENGINEERING
- NURSING
- NATURAL RESOURCES & ENVIRONMENTAL DESIGN
- PHYSICS
- POLITICAL SCIENCE
- PSYCHOLOGY
- SOCIOLOGY/SOCIAL WORK

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Interdisciplinary
Waste
Management
Institute

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Associate Vice Chancellor

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Interim Provost

DR. STANLEY BATTLE
Chancellor

Funded by DOE-SRS

A&T Hosts 3rd National Conference on Environmental Science & Technology



1. Sherry Southern of DOE and Thomas Parker of CDM. 2. Dr. Regina Williams and Myra Shird. 3. Dr. Godfrey Uzochukwu and Chancellor Stanley F. Battle

The purpose of the Third National Conference on Environmental Science and Technology, which was held in Greensboro, North Carolina on September 12-14, 2007 was to address pollution prevention, solutions, and research needs and foster relationships that could result in partnerships needed to protect and sustain the environment and improve the quality of life. Pollution Prevention, Fate and Transport of Contaminants, Bioremediation, Bio-processing, Innovative Environmental Technologies,

Global Climate Change, Environmental Justice and Ethics were discussed. The following persons served on the Executive Conference Committee: G.B. Reddy, Professor of Environmental Microbiology; Shoou-Yuh Chang, Professor of Environmental Engineering; Vinayak Kabadi, Professor of Chemical Engineering; Keith Schimmel, Associate Professor of Chemical Engineering, Emmanuel Nzewi, Professor and Director of Civil and Environmental Engineering; Stephanie Luster-Teasley, Assistant Professor of

Environmental Engineering and Godfrey Uzochukwu, Professor and Director of Interdisciplinary Waste Management Institute, Executive Chair. The following agencies are thanked for their financial support for the conference: NOAA Interdisciplinary Environmental Technology Cooperative Science Center; NSF Science & Technology Center; Allied Waste Services; O'Brien & Gere; US Department of Energy (Savannah River Site); US Environmental Protection Agency and CDM.

Global Climate Change Commission

Professor Godfrey Uzochukwu, PhD, director of the Interdisciplinary Waste Management Institute at North Carolina A&T State University, is a member of the North Carolina Commission on Global Climate Change. The 34 member commission studies issues related to global climate change and its potential effects on the state of North Carolina.



REUSE REDUCE RECYCLE REDESIGN REIMAGINE



Outstanding Seniors Receive Waste Management Certificates



Dr. Godfrey Uzochukwu and Courtney Jackson

Sixty two (62) graduating seniors (BA/BS) received the Waste Management Certificate in December 2007 and May 2008 at special ceremonies. The graduating seniors completed degree requirements and required WMI course work in waste management. Additionally, twenty four (24) graduate students (MS) received the Advanced Waste Management Certificate in December 2007 and May 2008 at special ceremonies. The advanced certificate recipients completed advanced degree requirements and advanced course work in waste management. The Waste

Management Certificate highlights the training of A&T students in environmental security and waste management issues. The certificate complements the undergraduate and graduate training at North Carolina A&T State University.

Dr. Anderson and Chancellor Battle Deliver Keynote Address at WMI Certificate Ceremonies

Dr. Argentini Anderson, Program Manager of the South Carolina Centers of Economic Excellence, South Carolina Commission on Higher Education was the keynote speaker at the Waste Management Certificate ceremony in May 2008. Dr. Anderson encouraged WMI certificate graduates to keep the "P.A.C.E" (Preparation, Accountability, Commitment and Empowerment) regardless of their chosen careers. She noted that global workforce requires different approaches.



Dr. Argentini Anderson

Chancellor Stanley F. Battle delivered the keynote address at the Waste Management Certificate ceremony in December 2007. He challenged WMI certificate graduates to be prepared to lead in the "Green" economy of the 21st century.

Graduate Students Receive Advanced Waste Management Certificates



Chancellor Stanley F. Battle

Mahesh Adhikari
Civil & Environmental Engineering
Samantha Bailey
Biology
Furiose Gomez
Civil Engineering

Nichole Herndon
Chemical Engineering
Michele Howard
Biology
Carrie Mitchell
Civil & Engineering
Natasha Oris-Thomas
Environmental Science
Tom Tse
Food Science
Michael Burns
Computer Science
Godwin Assumaning
Civil Engineering
Michael Burns
Computer Science
Karen Davis
Plant, Soil & Environmental Science
Nadia Dominick
Food & Nutritional Sciences
Jessica Faulk
Food and Nutritional Science

Desireé Gordon
Civil & Environmental Science
Nichole Herndon
Chemical Engineering
Stephan Hudson
Computer Science
Birhanu Mengistu
Civil & Environmental Engineering
Patrick Onochie
Civil Engineering
Christian Nkote
Food Science & Nutrition
Carol Rikard
Food Science
Stephani Page
Biology
Kurt Taylor
Plant Soil & Environmental Science
Cristol Stewart
Civil Engineering

Gifty Amponsah
Olabiya Atilola
Stephaine Berry
David Bryant
Stephanie Clinton
Cheri Grigg
Briean Griggs
Cadell Hall
Brandon Hardison
Shawna Magbie
Tiffany McNeil
Adrian Mills
Courtney Murray
Tierra Neely
Luong Nguyen
Fochive Njikam
Ryan Roberts
Junia Selby
Shayla Stark
Katherine Suda
Cherie Torrence
Aaron Vannetta
Treasure White
Sabrina Wilson
Komlan Abalo
Olajimi Amos
Ashley August
Tiffany Banks
Letitia Bivens
David Bryant
Lauren Davis
Korey Craig
Beth Ferree
Carresse Gerald
Briean Griggs
Davion Hemphill
Courtney Jackson
Barbara Johnson
Crystal Johnson
Yolanda Johnson
Ashley Keys
Waynette Kimball
Kevin Jenkins
Niya King
Wilmer Lawson
Euniqua Neal
Tierra Neely
Evan Paul
Ghebrezadik Semienawit
Ginette Sowu
Junia Selby
Timothy Smith Jr.
Ashley Thweatt
Shayla Stark
Vernicia Valentin
Melinda Valentin
Tedrick Vernon III
Aaron Vannetta
Jennifer Williams
Deontre Whitaker
Kendra Whitehead
Sabrina Wilson

Psychology
Food Science
Chemistry
Political Science
Liberal Studies
Laboratory Animal Science
Architectural Engineering
Electronics & Computer Technology
Landscape Architecture
Liberal Studies
Elementary Education
Landscape Architecture
Occupational Safety & Health
Food Science
Industrial Engineering
Chemical Engineering
Animal Science
Chemistry
Electrical Engineering
Biological Engineering
Lab Animal Science
Food Science
Animal Science
Political Science
Chemical Engineering
Industrial Engineering
Architectural Engineering
Nursing
Biology
Political Science
Accounting
Chemical Engineering
Nursing
Animal Science
Architectural Engineering
Journalism & Mass Comm
Social Work
Nursing
Chemical Engineering
Psychology
Biology
Architectural Engineering
BioEngineering
OSHA
Earth & Environmental Sciences
Nursing
Food Science
Chemical Engineering
Chemical Engineering
Technology
Chemistry
Electronic & Computer Technology
Architectural Engineering
Electrical Engineering
Nursing
Nursing
Nursing
Food Science
Nursing
Landscape Architecture
Chemistry
Political Science

The Waste Management Institute (WMI) adds a Hazmat Training Course to the list of WMI Certificate Core Courses

A Hazmat Training course (WMI 629) has been added to the list of Waste Management Certificate courses. The hazmat course is designed for advanced science, social science, engineering and technology for students who desire additional course work to expand their knowledge of hazardous materials and regulations. WMI 629 will be implemented in January 2008 and will complement other waste management capstone courses (WMI 333, WMI 617 and WMI 747). Completion of degree requirements, capstone seminars, course work, essay, 101 environmental questions and creative project are required to receive the Waste Management Certificate. The WMI Certificate highlights the training of A&T students in environmental security and waste management issues and complements the undergraduate and graduate training.



Dr. Godfrey Uzochukwu

WMI Partnerships with Agencies Savannah River Site (SRS) \$41,000 Department Of Energy

On September 12, 1994, the United States Department of Energy's Savannah River Office (USDOE-SR) and North Carolina A&T State University entered into a partnership to develop an interdisciplinary Waste Management Institute (WMI) with a \$1.4 million grant. The WMI was approved in June 1994 by the General Administration of the University of North Carolina. The SRS awarded a five year grant in the amount of \$615,000 for enhancement of WMI infrastructure.

Interdisciplinary WMI Scholarship Recipients (GPA: 3.00-4.00) Dept. of Energy – Savannah River Site

Abalo, Komlan	Chemical Engineering	Ingram, Shawntesha	Architectural Engineering
Abonuhi, Bright	Energy & Environmental Studies	Islam, N.A.K.	Civil Environmental Engr
Alazzeah, Awfa	Energy & Environmental Studies	Latif, Sikdar	Civil Engineering
Ali, Amanee	Environmental Science	McNear, LaKenya	Environmental Science
Allen, Sean	Civil Engineering	Mengistu, Birhanu	Civil & Environmental
Amos, Olajimi	Industrial Engineering	Mickens, Matthew	Earth Science
Assumaning, Godwin	Environmental Engineering	Moembo, Tshikudi	Economics
Baidoo, Ransford	Energy & Environ	Njikam, Fochive	Chemical Engineering
Banna, Anassou	Biological Engineering	Powell, C. Davis	Chemical Engineering
Davis, Karen	Plant Soil & Environmental Sc	Richardson, Ursula	Architectural Engineering
Faulk, Jessica	Food & Nutritional Science	Sloan, Steven	Architectural & Civil Engineering
Feyessa, Teshome	Electrical Engineering	Sparks, Annette	Biological Engineering
Griggs, Briean	Architectural Engineering	Stewart, Crystol	Civil Engineering
Gordon, Desiree	Civil & Environmental Engineering	Umezulike, Chiamaka	Earth & Environmental Science
Hagwood, Desiree	Civil Engineering	Valentin, Vernicia	Nursing
Hepburn, Ashanti	Civil & Environmental Engineering	Wilkinson, Alana	Civil Engineering
Hobson, Kyle	Earth & Environmental Science	Williams, Taccara	Civil Engineering
Hodges, Britney	Social Work	Wolde-Tsadik, Addisu	Civil Eng & Constr Mgmt
Hoxter, Jonathan	Chemical Engineering		

Allied Waste

(A) Scholarship:

- Recommended WMI Student of Junior/Senior Year Standing
- \$5,000 Scholarship for 2007-08 Academic Calendar
- \$2,500 for 2007 Fall Semester
- \$2,500 for 2008 Spring Semester

CDM

Two Scholarships recommended for WMI Student of Junior or Senior Standing

- \$8,000 Scholarship for 2007/08 Academic Year and Summer Internship
- \$8,000 Scholarship for 2007/08 Academic Year and Summer Internship

Environmental Career Paths for WMI Graduates

Major	Career Path
Education Majors	Environmental Education
Business Majors	Environmental Business
Economics Majors	Environmental Economics
Biology Majors	Environmental Biology
Chemistry Majors	Environmental Chemistry
Engineering Majors	Environmental Engineering
Journalism	Environmental Journalism
Communication	Environmental Communication
Political Science Majors	Environmental Policy/Politics
Psychology Majors	Environmental Psychology
Sociology Majors	Environmental Sociology
Nursing Majors	Environmental Health/Occupational Safety
Construction Mgmt Majors	Environmental Safety
OSHA Majors	Environmental Safety
Mathematics Majors	Environmental Mathematics/Statistics
Physics Majors	Environmental Physics
Animal Science Majors	Environmental Health and Science
Landscape Architecture	Majors - Environmental Design
Other Science Majors	Environmental Science/Environmental Consultants

United States Environmental Protection Agency

The Environmental Protection Agency (USEPA) and North Carolina A&T State University (NCA&T) signed a Memorandum of Understanding in December 1992. Funding for interns from 1992-2007 is estimated at more than 2 million.

2007 USEPA Summer Interns

Chantlin Collins -- Engineering
Kenyetta Johnson -- Business
Kevin Lloyd -- Engineering
Thomas Miller Engineering
Melinda Valentin -- Nursing

Waste Management Educational Outreach Projects

Pre-College Workshop on Environmental Technology and Waste Management

The above workshop was conducted for eighty three (83) high school juniors and seniors and teachers in Agriculture, Business and Engineering at NC A&T in June and July 2007. The theme of the workshop was "Environmental Security and Waste management."

2007/2008 Interdisciplinary Environmental and Waste Management Guest Lectures

Phyllis Wright, US EPA, RTP, NC

USEPA Internship Program

Lloyd Hackley, A&T

Ethics of Environmental Justice

Keith Schimmel, A&T

Advanced Responsible Hydrocarbon Development in West Africa*

John Sutphen, O'Brien & Gere

Environmental Ethics

Steve Roland, O'Brien & Gere

Environmental Ethics and Environmental Business

Maurine Hoke, O'BRIEN & GERE Environmental Engineers

Marv Richardson, O'BRIEN & GERE Environmental Engineers

Geographic Information System for Waste Management

Raymond McGowan, Allied Waste Industries

Operation of Landfills

Allison Sheaves, Allied Waste Industries

Organizational Structure of Allied Waste

Richard V. Crume, USEPA

Air Pollution And Aging America

Henry McKoy

Peace Corps Activities

Erin Vincent

Ecological Society of America Programs

Jeff Allison

DOE-Savannah River Site Activities and Opportunities

WMI Interdisciplinary Program Committee Members

Dr. Derrek Dunn, Technology

Dr. Vereda Williams, Business & Economics

Ayanna Boyd-Williams, Graduate Studies

Dr. Samuel Moseley, Arts & Sciences

Dr. Patricia Price Lea, Nursing

Dr. Stephanie Luster-Teasley, Engineering

Dr. Godfrey Uzochukwu, WMI

Dr. Ereka Williams, Education

Ron Bailey, Engineering

Dr. Tracy Hanner, Agriculture and Environmental Sciences

Dr. Linda Callahan, Arts & Sciences

Dr. Shona Morgan, Business & Economics

Dr. Mary Smith, Arts & Sciences

Dr. Renee Alleyne, Arts & Sciences

Dr. Regina Williams, Arts & Sciences

National Council for Science and the Environment

North Carolina A&T State University is a member of the National Council for Science and the Environment. The purpose is to advance environmental science endeavors and provide services to faculty and students.

Recycling Initiative

Dr. Godfrey Uzochukwu, Director, Waste Management Institute, Co-Chaired the University's Recycling Committee as A&T strives to become a "GREEN" environmentally conscious campus by actively conserving, reducing, reusing, recycling, redesigning and reimagining (C5R). A recycling committee was appointed by the Chancellor in December 2007 to develop a campus-wide recycling plan, implementation timeline, roll-out process and a realistic budget for North Carolina A&T State University. The recycling program will address what to recycle and how to recycle. The University will promote the 5Rs – Reduce, Reuse, Recycle, Redesign and Reimagine. A&T will recycle glass, aluminum, books, magazines,

newsprint, metal scraps, toner, and electronics, office paper and cardboard.

UNC Tomorrow Environment Work Group

Dr. Godfrey Uzochukwu Chairs the UNC Tomorrow Environment Work Group that addressing the following UNC Tomorrow Commission Major Findings and Recommendations.

Finding:

UNC should assume a leadership role in addressing the state's energy and environmental challenges.

Recommendations:

4.6.1. UNC should embrace environmental sustainability as a core value among its institutions.

4.6.2. UNC should leverage its existing research expertise to address critical environmental and energy issues.

4.6.3. UNC should increase community awareness of environmental and sustainability issues.

Priority 1. Establish An Energy Conservation Program. This program will educate the faculty, staff, and students on the importance of conserving energy in all the operations of the University. This will include reducing the carbon footprint of our operations and developing a better understanding of how what we do affects climate changes.

Priority 2. Create A "Green" Campus. The "Green Campus" will include physical recycling programs and educational programs about sustainability.

Noteworthy

Graduates of the WMI certificate program are well rounded and prepared to wear more than one "hat" in the workplace.

Students have gained extra knowledge in waste management topics in lectures, laboratories, seminars and projects; collaborate in waste management activities and are well prepared to actively participate in community environmental problem solving.

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We welcome creative ideas that are suitable for inclusion in the **EnviroNews**.

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

This newsletter is a publication of the Waste Management Institute of NCA&TSU. It is intended to increase the awareness of teachers, students, industry, government, and community groups about environmental and Waste Management issues.

A&T Vision

North Carolina Agricultural and Technical State

University is a

learner-centered

community that develops

and preserves intellectual

capital through

interdisciplinary learning,

discovery, engagement,

and operational

excellence.

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.



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