



ENVIRONNEWS®

Waste Management Institute

NORTH CAROLINA AGRICULTURAL & TECHNICAL STATE UNIVERSITY

VOLUME 10 NO. 10 • SUMMER 2005

INTERDISCIPLINARY ACADEMIC UNITS

- ANIMAL SCIENCES
- AGRICULTURAL EDUCATION
- AGRICULTURAL ECONOMICS
- ARCHITECTURAL ENGINEERING
- BIOLOGY
- 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

Energy and Environmental Studies Ph.D. Program Approved



Chancellor James C. Renick

Students will enroll in A&T's new interdisciplinary Ph.D. degree program in Energy and Environmental Studies starting in Fall 2005. The Ph.D. program in Energy and Environmental Studies will prepare interdisciplinary leaders in global energy and environmental issues. Chancellor James C. Renick stated "... having new Ph.D. programs is a significant milestone in the list of academic achievements for A&T..." The Ph.D. program in Energy and Environmental Studies was created by the following interdisciplinary committee members: Dr. Godfrey A. Uzochukwu, Director, (Waste Management Institute); Dr. Kenneth Murray, Dean (Graduate Studies); Dr.

Keith Schimmel (College of Engineering); Dr. Vereda King (School of Business & Economics); Dr. Derrek Dunn (School of Technology); Euthena Newman (Library Services); Dr. G. B. Reddy (School of Agriculture and Environmental Sciences); Dr. Ghasem Shahbazi (School of Agriculture and Environmental Sciences); Dr. Guoqing Tang (College of Arts & Science); and Dr. Harmohindar Singh (College of Engineering).

Chancellor James C. Renick to Serve on NCSE Board

Dr. James C. Renick, A&T's Chancellor has been elected to serve on the Board of Directors of the National Council for Science and the Environment. Dr. Renick will serve a three-year term.



New Hazmat Facility at A&T

A new Hazmat facility for safe storage, handling, and use of hazardous materials has been constructed at A&T. Hazardous materials include toxic (heavy metals), corrosive (acids), and reactive (chlorine).

Pre-College Environmental Security and Waste Management Workshop

The above workshop was conducted for eighty (80) high school juniors and seniors and seven (7) teachers at NC A&T on June 23, 2004. The theme of the workshop was "Environmental Security and Waste Management."

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DR. GODFREY UZOUCHUKWU
Director, WMI

DR. KENNETH MURRAY
Associate Vice Chancellor

DR. CAROLYN MEYERS
Provost

DR. JAMES C. RENICK
Chancellor

Interdisciplinary
Waste
Management
Institute

Funded by DOE-SRS and Title III



REUSE

REDUCE

RECYCLE



Graduating Seniors Receive Waste Management Certificate

One hundred and eighty-three (183) graduating seniors (BA/BS) received the Waste Management Certificate in December 2004 and May 2005 at special ceremonies. The graduating seniors completed a minimum of 18 credit hours of environmental/waste management courses including an essay connecting waste management to their majors and career paths.



DR. GODFREY UZUCHUKWU AND CYNTHIA MATTHEWS AT THE WMI CERTIFICATE CEREMONY



DR. CAROLYN MEYERS, PROVOST & VICE CHANCELLOR FOR ACADEMIC AFFAIRS

Naima O. Akida	Industrial Engineering	Miki Dominique Allen	Nursing	L. Diane Hurry	Nursing
Venisha Best	Political Science	Mary Arruda	Nursing	Amber C. Jefferson	Lab Animal Science
Ammi Michelle Brown	Psychology	Imade Asemota	Chemical Engineering	Kai Abdul Jones	Management/Marketing
Candance La Toya Campbell	Civil & Environmental Engineering	Lakisa Louise Ballard	Nursing	Kimberly Kiyawana Joyner	Nursing
Carlton E. Campbell, Jr.	Chemical Engineering	Tiffany Alease Banks	Lab Animal Science	Andrea P. Keck	Nursing
Adrienne Deneen Carter	Occupational Safety & Health	Jeremy Christopher Bates	Industrial Engineering	Sabrina Marie Latham	Nursing
Keyma Toccoarca Clark	Political Science	Cedric V. Bazemore	Civil Engineering	Leticia Giovanna Lee	Earth and Environmental Science
Daryl Jerome Cullins	Manufacturing Systems	LaShawndia Nate Beatty	Agribusiness	Dennis A. Lockhart	Architectural Engineering
Carlisa Shuvon Davis	Business Management	Zahra I. Bennett	Industrial Engineering	Steven D. Loewen	Agricultural Education
Andrea Monét Dinkins	Industrial Engineering	Jonathan L. Bush	Agricultural Economics	Loznee Long	Industrial Engineering
Jennifer Denise Dominick	Occupational Safety & Health	Darren Le Ron Boykin	Civil Engineering	Henry Augustus Lutterodt	Agribusiness
Ubong N. Effanga	Industrial Engineering	Mary Lee Britton	Nursing	Starla Nicole Lyles	Chemistry
Deidra Felton	Food Science	Demekia Clechette Brown	Nursing	Katomi Lakai Mabine	Nursing
Nichole Jenee Fisher	Political Science	Kristin S. Brown	Architectural Engineering	Colby R. Marshall	Civil Engineering
Miah Olivia Gilford	Business Management	Justin Edward Bullock	Civil Engineering	Lisa L. Martin	Lab Animal Science
William Denaz Green, Jr.	Architectural Engineering	Clarissa Octavia Burns	Political Science	Jeffrey Lynn Massey	Animal Science
Adrina Michelle Greenlee	Political Science	Timothy Burroughs	Industrial & Systems Engineering	Titus B. McGlone	Industrial Engineering
Dawn Reneé Harris	Architectural Engineering	Victoria Alexis Cejas	Political Science	Christopher Nevell McLean	Political Science
Denise Verné Haynes	Chemical Engineering	Sienna Marie Lee Clay	Industrial Engineering	Jonathan L. McNeill	Agricultural Education
Jasmine Nyjika Holden	Lab Animal Science	Walter James Cole	Nursing	Shamonica C. Meadows	Nursing
Tunisha M. Holley	Business Management	Delisha Lashon Council	Occupational Safety & Health	William Edward B. Medley	Political Science
Andrew Sorsor Jallah, Jr.	Industrial & Systems Engineering	Paula Lynn Crouse	Nursing	Jessica L. Middleton	Psychology
Alicia L. Jessup	Psychology	Katrina Cheek-Crowder	Nursing	Carrie Teneal Mitchell	Bioenvironmental Engineering
Leslie Michand Jones	Political Science	Dorian Laird Culmer	Lab Animal Science	Kyonna Moore	Nursing
Kutlo Kehuparetse Kgobero	Civil Engineering	Adrienne Millicent Davis	Political Science	Christina Dionne Morrissy	Architectural Engineering
Keith R. Lawrence III	Marketing	Ryann Michelle Davis	Bioenvironmental Engineering	Sherita Diane Mosley	Nursing
Anthony DeWayne Lilly	Manufacturing Systems	Moya Ayanna DeJesus	Nursing	Kimberly Susan C. Mullins	Civil Engineering
Dennis D. Lowery	Civil Engineering	Lindsey R. Denning	Lab Animal Science	Jerome Myers	Civil Engineering
Lesley Mauricia Maduro	Plant Science	Brian L. Dockery	Agricultural Education	Idara Sunday Ndoh	Political Science
Cyndia Marie Matthews	Occupational Safety & Health	Holly LeeAnn Dyer	Nursing	Sabrina Monique Neill	Nursing
Yolanda T. McDaniels	Psychology	Sharonda Renee Eggleton	Liberal Studies	Kelvin Earl Noble, Jr.	Business Education
Theodious H. E. McKinnon	Industrial Engineering	Debra Jean Elliott	Nursing	Yakeshia Lavonne Norman	Nursing
Felicia Elaine Michael	Business Management	Susan Elliott	Nursing	Veronica Akos Nuworsu	Nursing
Chellie L. Mills	Political Science	Kelli Nicole Ennis	Agribusiness	Aketa-Marie Ogletree	Civil Engineering
Kevin Rashad Moore	Civil & Environmental Engineering	Tarren Deonna Evans	Nursing	Stephani Cyrisse Page	Chemical Engineering
Brooke Danielle Patterson	Occupational Safety & Health	Cheryl Marie Farkas	Print Journalism Mass Communications	Jermaine S. Perry	Bioenvironmental Engineering
Shawn Denard Patterson	Political Science	Gwenetta Flowers	Food Science	Orlando Lamont Perry	Occupational Safety & Health
Kelly N. Perry	Chemical Engineering	Rasheeda M. Glover	Architectural Engineering	Towana S. Pittman	Lab Animal Science
Tameika E. Phillips	Lab Animal Science	Furmose James Gomez	Civil Engineering	Shaquinta Debron Platt	Biology
Ogoopotse B. Pule	Civil Engineering	Jet'Aime LaKaya Graham	Biology	Matthew B. Poling	Civil Engineering
John Reynolds	Occupational Safety & Health	Danetta Denise Grant	Nursing	Jean Nicole Porter	Agribusiness
Carrie Elizabeth Seawright	Political Science	Belinda Gale Haith	Nursing	Jarvis R. Powers	Management
Craig Alan Shaw	Occupational Safety & Health	Christi Renee Hall	Animal Science	Kenya A. Pye	Chemical Engineering
Stacy Nicole Short	Architectural Engineering	Janice Amanda Hall	Nursing	Julia Allene Redding	Nursing
Patrice Tercel Smith	Electrical Engineering	Talesha T. Hall	Chemical Engineering	Brandon Girard Richards	Civil Engineering
Renard D. Spratling	Computer Science	Duronnie Lee Harrell, Jr.	Industrial Engineering	Tonya Barshirai Roach	Civil Engineering
Zachary C. Sturdivant	Industrial Engineering	Maiasha Nilanja Harvey	Nursing	Erika Robinson	Lab Animal Science
Lamont Payton Thompson	Industrial Engineering	Na'imah Daaiyah Hasan	Nursing	Melody Louvenia Robinson	Lab Animal Science
Tom Tse	Food Science	James Kyril McKinley Hayes	Lab Animal Science	Coltedra Sh'nee Ross	Nursing
R. Benjamin Vitaro	Finance	Desiree Lynette Hill	Nursing	Sherrice N. Sanders	Nursing
Christopher C. Watson	Biology	Linda G. Hobbs-McRae	Nursing	Michael C. Sellman	Civil Engineering
Brian Withrow	Political Science	Michele C. Howard	Biology	Raymond Gerald Sendar	Nursing
Antoinette Villafuerte Abalos	Nursing	Monishia Shantae Howard	Nursing	Evan Bernard Shaw	Earth and Environmental Science
		Lanisha Patrice Hunter	Nursing	Denise Dearman Sturdivant	Nursing
				Cliftonius D. Sutton	Agricultural Education
				Temeshia Teague	Nursing
				Jametta K. Thomas	Industrial Engineering
				Lateshia Monique Thomas	Political Science
				Timina La'Shell Thompson	Bioenvironmental Engineering
				Annette Marie Von Cannon	Nursing
				Crystal Danielle Walden	Lab Animal Science
				Melanie Layla Wall	Nursing
				Juhann C. Waller	Civil Engineering
				Janique T. Washington	Psychology
				Shannon Renea Wiley	Lab Animal Science
				Felicia LaShelle Wilfong	Nursing
				Benita D. Williams	Nursing
				Bryant Lamont Williams	Biology
				Jessica L. Williams	Nursing
				Priamos V. Williams	Marketing
				Rashida R. Williams	Nursing
				Tyeasha Denaia Williams	Nursing
				Decatur Ward Wilson, III	Industrial & Systems Engineering
				Jonathan Wilson, II	Political Science
				Kimberly Lee Womble	Political Science
				Mya Woodard	Nursing

Graduate Students Receive Advanced Waste Management Certificate



DR. KENNETH MURRAY
ASSOCIATE VC FOR ACADEMIC AFFAIRS &
DEAN, GRADUATE STUDIES

Eleven (11) graduate students (MS) received the Advanced Waste Management Certificate in December 2004 and May 2005 at special ceremonies. The Advanced Certificate recipients completed a minimum of 12 credit hours of advanced environmental/waste management course work and project/thesis.

Kumar G. Bindiganavile	Civil & Environmental Engineering
Elobeid Abdelrahman Elobeid	Civil Engineering
Maria Gaby Calustro Machuca	Civil Engineering
Muimui Theophilus Mufana	Agricultural Economics
Mohamed Albachir Seydau Niandou	Civil & Environmental Engineering
Mottaz Mahgoub Uthman	Civil & Environmental Engineering
Odette Alexander	Animal Health Science
Frank Mawuli Amenya	Civil & Environmental Engineering
Jill Susanne Bowman	Animal Health Science
Taril Monica Gravely	Agricultural Education
Heather Susan Krebs	Animal Health Science

Environmental Career Paths for WMI Certificate Recipients

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
Poli Science Majors	Environmental Policy/Politics
Psychology Majors	Environmental Psychology
Sociology Majors	Environmental Sociology
Nursing Majors	Environmental Health/Occupational Safety
Constr. 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 Majors	Environmental Consultants/Law

WMI Develops Two Capstone Seminars

WMI Seminar I – WMI 333

This *interdisciplinary* seminar is a requirement to receive the Waste Management Certificate. It is **designed for Waste Management Certificate candidates** who desire information to expand their knowledge of environmental/waste management issues. Students must complete 18 credit hours of recommended courses and environmental/waste management projects or participated in environmental/waste management internships. The seminar introduces students to the interdisciplinary nature of environmental/waste management and covers the environmental/waste management aspects of natural sciences, physical sciences, social sciences, humanities, engineering, technology, and economics in an integrated manner. Students are introduced to environmental/waste management topics that enhance their critical thinking and problem-solving skills needed in post academic endeavors. The seminar

incorporates current literature, research, and consulting activities in environmental industry.

WMI Advanced Seminar I – WMI 747

This *interdisciplinary* seminar is a requirement to receive the Advanced Waste Management Certificate. It is **designed for Advanced Waste Management Certificate candidates** who desire information to expand their knowledge of advanced environmental/waste management issues. Graduate students must complete 12 credit hours of recommended courses (6 credit hours) and thesis (6 credit hours). The seminar covers current and emerging research issues in environmental/waste management. The seminar addresses advanced environmental/waste management aspects of natural sciences, physical sciences, social sciences, humanities, engineering and technology. Students are exposed to professional perspectives relating to environmental/waste management issues.

Savannah River Site (SRS)

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 recently 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

Betty, LaShawndia	Agriculture Economics	Senior	\$1,000
Blackwell, Lance D.	Landscape Architecture	Junior	\$1,000
Diaz Wiley, Emelina A.	Architectural Engineering	Junior	\$1,000
Eaton, Tamia Lacha'	Human Resources Business/Industry	Graduate	\$1,000
Eze, Ifeyinwa Faith	Civil/Environmental Engineering	Graduate	\$1,000
Farkas, Cheryl Marie	Print Journalism Mass Communication	Junior	\$1,000
Forbes, Dean A.	Plant and Soil Science	Graduate	\$2,000
Freeman, Candice	Plant and Soil Science	Graduate	\$4,000
Gardner, Richard W.	Plant, Soil and Environmental Science	Graduate	\$1,000
Goldston, Justin Lee	Transportation/Logistics	Junior	\$1,000
Hale, Darius Jerrod	Agribusiness	Junior	\$1,000
Ivey, Crystal L.	Earth & Environmental Science	Senior	\$1,000
Krebs, Heather S.	Animal Health Science	Graduate	\$1,000
Linton, Sharon	Occupational Safety & Health	Graduate	\$1,000
Mallete, Michele	Earth & Environmental Science	Junior	\$1,000
Martin, Lisa L.	Animal Science	Senior	\$1,000
Mathews, Cyndia Marie	Occupational Safety & Health	Senior	\$1,000
Mercer, Julian D.	Occupational Safety & Health	Senior	\$1,000
Moore, Crystal	Civil Engineering	Graduate	\$1,000
Nelson, Kinsley	Chemical Engineering	Graduate	\$1,000
Njikam, Eloh Nfonju	Plant, Soil and Environmental Science	Graduate	\$1,000
Njikam, Forpu Adapoe	Civil Environmental Engineering	Graduate	\$1,000
Oppong-Agyare, Solomon	Plant & Soil Science	Graduate	\$1,000
Orji, Emmanuel Oha	Manufacturing Systems	Graduate	\$1,000
Scott, Juanita	Plant and Soil Science	Graduate	\$2,000
Taylor, Stefanie	Lab Animal Science	Junior	\$2,000
Thompson, Jaime C.	GCS/Marketing	Senior	\$1,000
Totten, David T.	Electronics Technology	Junior	\$2,000
Tse, Tom	Food Science	Graduate	\$1,000
Umezulike, Chimaka	Earth & Environmental Science	Freshman	\$3,500

WMI Partnerships with Agencies

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 – 2004 is estimated at more than \$1.5 million.

2005 USEPA Summer Interns

Anthony Allen, Jr.	Computer Science
Scott Burks	Biology
Thomasin Faucette	Occupational Safety and Health
Angela Faulkner	Occupational Safety and Health
Anjulyna Khamdy	Biology
Hashim Mahmoud	Chemical Engineering

Interdisciplinary Air Pollution Course

This course is designed for senior and graduate level science, engineering, technology and other students who desire course work in air pollution assessment and control to expand their knowledge of the environmental sciences. Topics include air pollution fundamentals, emission control technology, testing and monitoring, principles of quality assurance, assessing air pollution exposure risks, regulatory development and compliance, trends in air pollution research, and air quality project management.

The instructor was Richard Crume, a senior project officer and air pollution expert with



the U.S. Environmental Protection Agency. Crume is currently directing the development of national air pollution regulations for waste incineration, as recently featured in USA Today. He Chairs the Air and Waste Management Association's Training Division and is working with Duke University to develop a certificate program in management for scientists and engineers.

RICK CRUME

WMI Program Committee

Dr. Samuel Moseley -College of Arts & Sciences
 Dr. Vereda King - School of Business & Economics
 Dr. Tracy Hanner – School of Agricultural & Environmental Sciences
 Dr. Valmi Sousa – School of Nursing
 Ron Bailey – College of Engineering
 Ayanna Boyd-Williams – School of Graduate Studies
 Dr. Erika Williams – School of Education
 Dr. Teresa Styles – College of Arts & Sciences
 Dr. Derrek Dunn – School of Technology
 Dr. Godfrey Uzochukwu – Waste Management Institute (Ex-officio)
 Dr. Stephanie Luster-Teasley – College of Engineering
 Patricia Gilliam – Program Assistant, Waste Management Institute

A&T Futures

THE 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.

By August 2005, A&T will enroll at least 10 percent of the student population (or 1,000 students) in new interdisciplinary academic centers and programs.

WMI Mission

- Enhance awareness and understanding of waste problems and their management in our society.
- Enhance instruction, research, and outreach which are needed to improve the quality of life and protect the environment.

Editorial Committee:

Dr. Godfrey Uzochukwu
 Professor & Director of WMI
Ms. Nettie Rowland
 Assistant Director of Public Information
Patricia Gilliam
 Program Assistant, WMI
Juanita Scott
 Research Assistant, WMI

From the Editorial Staff

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

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Greensboro, NC 27411

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E-mail: uzo@ncat.edu.

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

Scrap Yard Scrapped

A local company wanted to get a special permit from the Greensboro Zoning Commission to put a junkyard (transfer station) next to the campus of North Carolina A&T State University (home for 10,300 students). The Chancellor of North Carolina A&T, Dr. James Renick, testified in opposition to the special permit at the Greensboro Zoning Commission meeting on May 9, 2005. The Junkyard (scrapyard) special permit was denied by the Zoning Commission.

ALPHA PHI ALPHA Keeps Campus Surroundings Clean and Healthy

The Interdisciplinary Waste Management Institute (WMI) collaborated with **Alpha Phi Alpha Fraternity Incorporated** and cleaned a section of the Buffalo Creek between Carver Hall and Aggie Stadium on Saturday, April 9, 2005. Glass and plastic bottles, cans, cups, rags, small engine, baby car seat, etc., were removed from the creek. This effort was coordinated by Jermaine Perry, May 2005 Bio-Environmental Engineering BS/WMI Certificate recipient and President of Senior Class, SGA.

Interdisciplinary Environmental and Waste Management Guest Lecturers

Kathleen Hopkins, Manager,
 EH&S Module Center & Operations,
 Hartford, CT

Dr. James Schlesinger, Dean,
 School of the Environment,
 Duke University, Durham, NC

Kathleen Hoffman,
 Education Coordinator,
 Ecological Society of
 America, Washington, DC

Dr. Sharon Parker,
 USDA Forest Service,
 Washington, DC

Noteworthy

Graduates of the WMI certificate program are well rounded and prepared to wear more than one "bat" in the workplace. For example, many private, public and non-profit agencies are or will be engaged in activities that have negative results on the natural, built and social environments. When issues such as air quality, water quality, energy conservation, habitat destruction, urban sprawl and waste management are not addressed, everyone suffers. However, those agencies would save thousands of dollars as well as the ecosystem by hiring individuals who are trained in environmental security and waste management in addition to the primary area for which they are hired.