

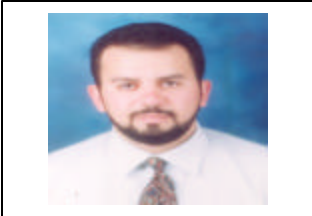
Tennessee State University
College of Engineering, Technology and Computer Science
Civil and Environmental Engineering Department
Accomplishments at the both the Undergraduate and Graduate Levels 2006-2007



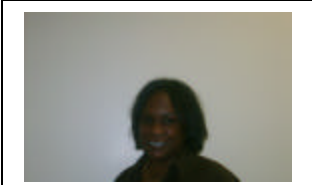
Dr. Cedric Fairbanks, obtained his B.Sc. in 1999 from TSU, M.S. in 2004 and a Ph.D. in 2006 both from Clemson University. He is a geotechnical Engineer currently a Project Engineer in Schnable Engineering, SC.



Dr. Roger Painter is an Assistant Professor in the department. In February of 2007, Dr. Roger Painter and Professor Valetta Watson completed a study that examined the present state of solid waste in Tennessee landfills. The project was entitled *Diversion of Organic, Construction, and Demolition Material Wastes From Tennessee Class I and Class IV Landfills*, and was directed under Tennessee Senate Bills 1774/1770 and House Bills 1344/1345. Funding is currently pending for a continuation of this study.



Dr. Omar Al-Khatib obtained his B.Sc. in 1999 from TSU, M. Sc. in 2001 and a Ph.D. in Structural Engineering in 2006 both from TTU. He is currently a structural engineer working for a private consulting firm in the Nashville area.



Under the guidance of Prof. Valetta Watson, graduate students, Tiffany Hines, Mario Beddingfield, Farida Forouzan, Johnnie Williams, and Kelly Ray, attended Smoke School and successfully passed the certification field exam in May of 2007. The Smoke School, also known as Opacity Training, is the formal instruction which is necessary to report visible emissions as required by [EPA Method 9](#). Certified smoke readers are highly sought by industries that are subject to inspection and need to comply with Title V regulations.



Lashun King is a Ph.D. student at Virginia Tech University. She was in the building next door when the tragedy occurred in April 2007. She obtained her B. SC. In 2005 from TSU



Tiffany Hines was an invited presenter at the State of Environmental Justice in the America Conference held at the Howard University School of Law. Ms. Hines' paper outlines the remedial activities that have historically occurred at the Dickson County landfill, and the resulting effects on the largely minority population in the landfill vicinity. Ms. Hines graduated from the graduate Environmental Engineering program in May 2007.

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2006-2007 Dwight D. Eisenhower Transportation Fellowship Recipients
 The FHWA Dwight D. Eisenhower Program provides fellowship opportunities to attract the nation's brightest minds to the field of transportation; to enhance the careers of transportation professionals by encouraging them to seek advanced degrees; and to retain top talent in transportation industry of the United States



Calandra Collins
Junior



Derrick Lovett
Graduating Senior



Roneisha Worthy
Master's Candidate

FALL 2006 ASCE SECTION MEETING
STUDENT COMPETITION PARTICIPANTS

Students competed in a Sudoku Puzzle Competition in which the team had to fill in a grid so that every row, every column, and every 3x3 box contained the digits 1 through 9. The students won a \$200.00 prize that will help fund the TSU-ASCE Chapter Concrete Canoe activities.



Derrick Lovett, Senior



Dominique Boyd, Senior



Kris Adams, Sophomore



Kendra McFadden, past
president ASCE Student
Chapter at TSU



Dr. Paily Paily, Professor
specialized in Environmental and
Water Resources



Dr. Farouk Mishu, P.E.,
F. ASCE, Professor and Head,
Civil Engineering

Happenings and activities of interest

The student chapter of the American Society of Civil Engineers at Tennessee State University hosted the Nashville branch meeting where life time members were honored and the ASCE scholarships were awarded.

Hemanie Piere was the recipient if the ASCE scholarship

Life time membership was conferred on Dr. Farouk Mishu.

Dr. Farouk Mishu was elected to the grade of fellow of the American Society of Civil Engineers

Zakia Seymour obtained a master of Environmental Engineering from the University of California Berkley

Martin Green is attending the graduate program at University of California Berkley

Ronesha Graham Worthy is attending TSU graduate program in Environmental Engineering

Charessa Boshears Mishu obtained her PE in June 2007

Sample capstone design project:

Design of water supply reservoir for the city of Portland Tennessee. This is real world real time capstone project and the advisor is Dr. Paily.

Design of numerical model for calculating recharge in Karst Aquifers. Dr. Byl is the advisor

The design of a smart facility that can provide protection against fatal weather conditions. Dr. Brad Long is the advisor.

The program is enhanced by using adjuncts from the US Army Corps of Engineers United States geological Surveys and from local consulting engineers in the Nashville area.

A new graduate program with a concentration in structural engineering has been developed with major contributions from industry, state and federal government engineers. The program is listed below:

Required Courses			Two elective courses from the following courses		
ENGR	5020	Optimization methods for Engineers	CVEN	5790	Reinforced Masonry Design
ENGR	5150	Numerical Methods for Engineers	CVEN	5820	Principles Of Structural Design
ENGR	5500	Special Problems	CVEN	5810	Bridge Design
CVEN	5800	Advanced Steel Design	CVEN	5740	Elasticity
CVEN	5710	Advanced Concrete Design	CVEN	5770	Theory of Plates and Shells
CVEN	5760	Advanced Indeterminate Structures	CVEN	5720.	Composite Structure Design
CVEN	5750	Stability and Vibration			
CVEN	5420	Advanced Foundation Engineering			
CVEN	5780	Finite Element Analysis Lab			
CVEN	5720	Composite Structure Design			

Partial list of students who recently graduated from the graduate environmental Engineering program at TSU							
Last	First	BS TSU	ME TSU	Last	First	BS TSU	ME TSU
Jenkins	Marie	1992	1996	Ahmed	Mosfeka	1995	1997
Bowles	Leslie	1995	1997	Udeh	Sampson	1996	1997
Warden	Douglas	1994	1997	Apparao	Gopu	No	1998
Bartlett	Rceen	No	1998	Cruikshank	Christa	1996	1998
Williams	James	1989	1998	Boston	Amini	No	1999
Freeman	Felicia	1994	1999	Martin	Jabari	1996	1999
Boykin	Joi	1997	2000	Chakraborti	Koushik	No	2001
Sarfo	Robert	No	2001	Shrilalitha	Akula	No	2002
Agyemang	Daniel	No	2002	Alam	Majhurul	No	2002
Bahour	Adnan	Yes	2002	Haynes	Shaunna	2000	2002
Roy	Sudeshna	No	2002	Saha	Lipi	No	2002
Darlington	Ramona	No	2003	Hissam	Spencer	No	2003
Namuduri	Sumedha	No	2003	Morris	Natascha	1998	2003
Watson	Valetta	No	2003	Ahmed	Khalid	No	2004
Anako	Dominic	1995	2005	Ary	Alam	No	2005
Faridy	Fuzail	No	2007	Ravell	Isabelle	No	2005
Hamawandi	Omar	No	2005	Kochary	Shawkat	No	2005
Monsier	Serge	No	2005	Fitzwater	William	No	2006
King	Lashun	2004	2006	Rodgers	Charner	No	2006
Spitzenberg	William	No	2006	Beach	Tarra	No	2007
Hines	Tiffany	2005	2007	Ray	Kelly	No	2007

The following students are the recipients of the Tennessee road Builders Scholarships for the year 2006-2007



Calandra Collins, Junior and member of ASCE student Chapter



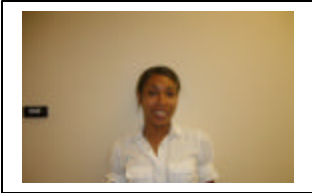
Harmanie Pieere is the recipient of the ASCE scholarship and the president of the ASCE



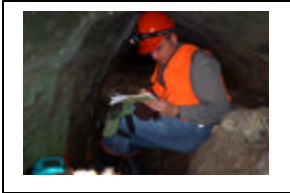
Nkechi Chieke, Senior and member of the ASCE student Chapter



Jameka Johnson went to China to study water resources for six week during the summer 2007. She is currently training at USGE+S in Indianapolis, IN



Tarra Beach Will attend a Ph. D. program at Vanderbilt University in Environmental Engineering



Dr Tom Byl (pictured above) and environmental engineering students were given permission to study a private cave in west Nashville. The cave has a stream flowing through it. The engineering program has been studying water quality in karst areas for many years but is now getting into the caves and conduits for closer looks. This work is part of an NSF grant that Dr. Stewart-Wright (Office of Research & Sponsored Programs) and Dr. Byl received to increase minority participation in earth science and engineering. They are also scheduled to study pollution getting into Mammoth Cave National Park.



Undergraduate and graduate students in the environmental engineering program participated 5 poster session at the Tennessee American Water Resources Association conference. Above are Draghina Icobescu, Dr. Tom Byl, Carlton Cobb, Farida Forouzon, Jameka Johnson, Derek Lovett, Mario Beddingfield.



Undergraduate students are studying/monitoring water resources around TSU's campus. Pictured above are Brandon Cobb, Carlton Cobb, and Patrice Armstrong.

Martha J. Parks is an Administrative Assistant III in the Civil and Environmental Engineering Department at Tennessee State University. She has been in the department for fifteen years. Ms. Parks' duties include maintaining all student and departmental files within the department; compiling data and preparing reports for the departmental semester report; maintaining the departmental budget; supervise work study students; make all travel arrangements for professors and students; prepare contracts for all faculty, undergraduate and graduate students; order and inventory all office supplies, and implement student evaluations for all faculty and students each semester. Ms. Parks received an Associate Degree in Business from Draughons Business College; completed one year at Nashville Occupational Training School and successfully completed her Certified Professional Secretary Training with the State of Tennessee. In the fall of 2007 she will take the exam to be a "Certified Professional Secretary."

