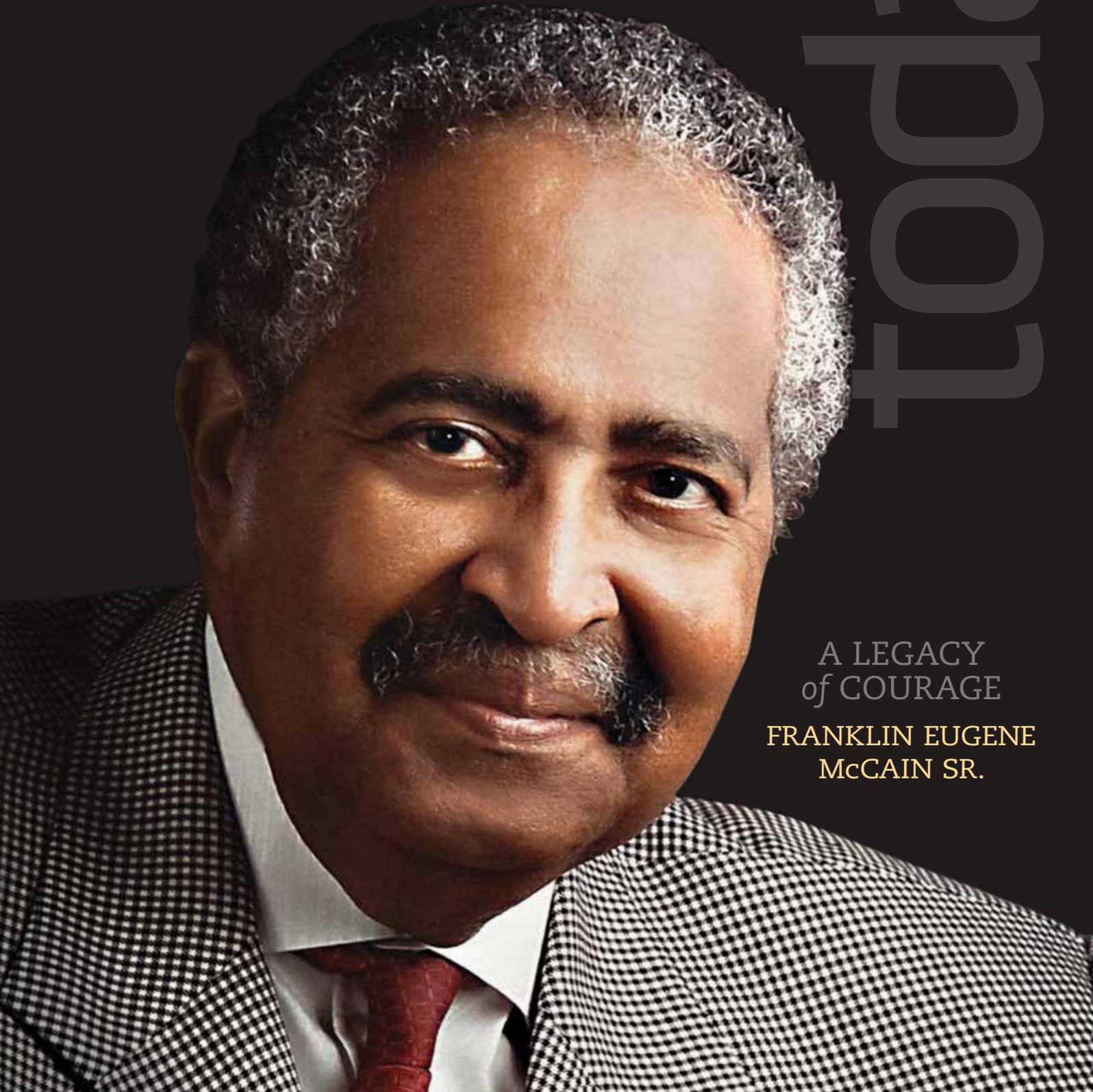




NORTH CAROLINA AGRICULTURAL
AND TECHNICAL STATE UNIVERSITY

today



A LEGACY
of COURAGE
FRANKLIN EUGENE
McCAIN SR.

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.

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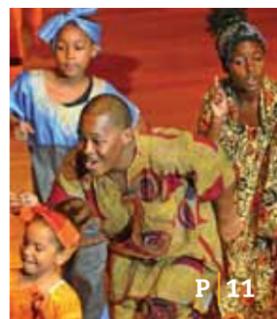
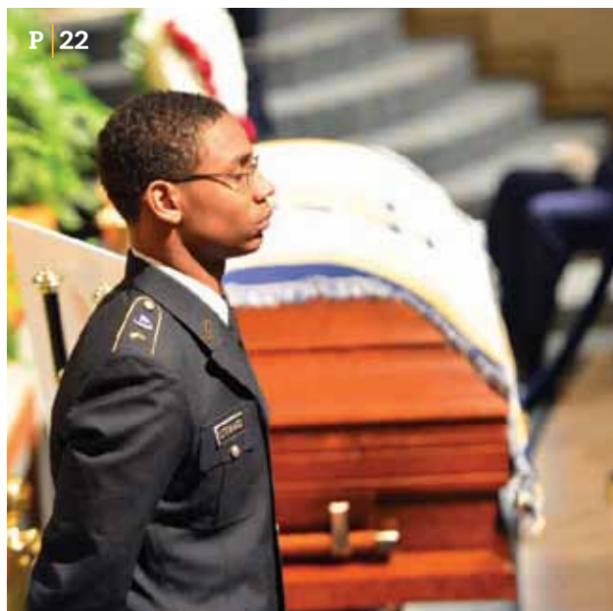
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ACS Student Chapter Receives Award

The American Chemical Society (ACS) student chapter at North Carolina A&T State University has been selected to receive a Commendable Award for its activities conducted during the 2012-2013 academic year.

The Society Committee on Education presented 53 outstanding, 85 commendable and 125 honorable mention awards. Lists of award winning chapters were published in Chemical & Engineering News and in the November/December issue of inChemistry, the student member magazine. The award-winning chapters will also be honored at the 247th American Chemical Society National Meeting in Dallas, Texas, on March 16.

Dr. Marion A. Franks, associate professor in the chemistry department, is the faculty advisor for the ACS student chapter at N.C. A&T.

ACS is dynamic, visionary and committed to “improving people’s lives through the transforming power of chemistry.” With more than 163,000 members, it is the world’s largest scientific society and one of the leading sources of authoritative scientific information. A nonprofit organization that was chartered by Congress, ACS is at the forefront of the evolving worldwide chemical enterprise and the premier professional home for chemists, chemical engineers and related professions around the globe.



Board of Governors Approves More Out-of-State Freshmen for N.C. A&T

On Jan. 10, the University of North Carolina Board of Governors approved Chancellor Harold L. Martin Sr.’s proposal to increase the out-of-state capacity for new freshmen at North Carolina Agricultural and Technical State University.

In a letter to UNC President Thomas Ross dated Jan. 3, Martin requested a 7 percent increase on the current 18 percent cap for out-of-state new freshmen citing the university’s capability to serve the additional number of students without it having a negative impact on in-state enrollment or in-state students.

“We are pleased the board of governors agreed to increase the out-of-state student cap at North Carolina A&T State University,” said Martin. “We will continue to increase the university’s academic competitiveness and prepare more students for careers in high-need disciplines locally, regionally and nationally.”

Recruitment efforts for out-of-state students will be focused in the science, technology, engineering, mathematics, nursing, education and agricultural disciplines.

As a part of the increase, no qualified in-state student will be denied admission or access to the university to accommodate out-of-state students.

Septuagenarian Earns Doctorate

At the fall commencement, Dec. 14, 74-year-old Bertha Korngay Dixon walked across the dais having successfully completed the requirements to earn a Ph.D. in leadership studies from North Carolina A&T State University.

This degree added to her already impressive collection of academic achievements: Bachelor of Arts degree in business education from Savannah State University, Master of Arts degrees in education and curriculum and administration from Northeastern Illinois University and Chicago State University, respectively, and a Juris Doctorate from DePaul University.

Dixon attributes her love of education to her father. As she reflects on her humble upbringing in the small town of Hazlehurst, Ga., she remembers how much her father valued education. His goal, she said, was to educate as many of his children as possible.

“My dad’s plan was that we would all work together to get my two older sisters out (of college) and then each one of us would reach down and bring the younger ones out of college,” she said.

Of her 12 siblings, 10 have earned master’s degrees or above.



Chancellor Harold L. Martin Sr. congratulates Bertha K. Dixon, who earned a Doctor of Philosophy degree in leadership studies at the age of 74.

Although her doctoral program is complete, Dixon has no plans of sitting idly. Her immediate goals are to become a professor at N.C. A&T, take the bar exam and practice law in North Carolina or become a consultant.

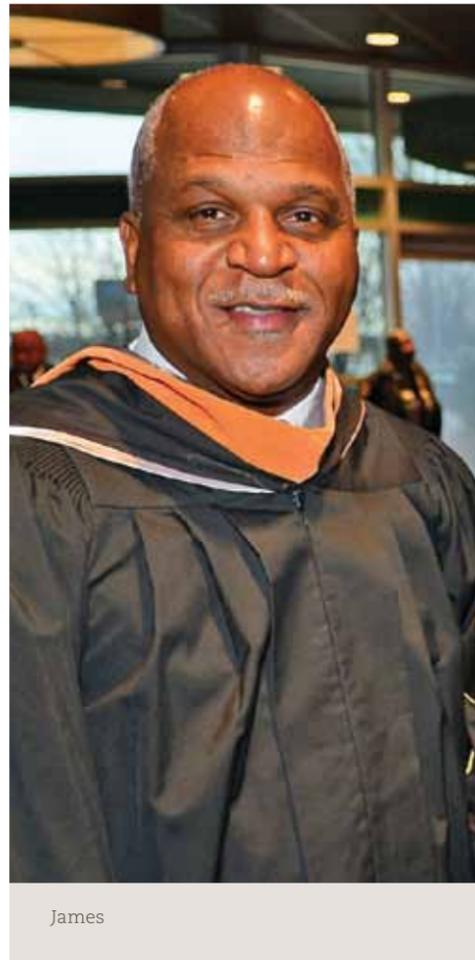
“When I retired they asked me what I wanted. I told them a rocking chair, but it would only be for decoration,” she said.

Dixon practiced law for 26 years in Illinois where she also spent time as a teacher and then administrator in the Chicago public school system. In 2006, she became an adjunct professor in the School of Business and Economics at A&T.

Her key piece of advice for students of any age is simply to have a goal.

“Have a time frame for that goal and don’t let anyone or anything get in your way of reaching that goal,” she said.

Toyota Exec Delivers Commencement Keynote



James

Wilbert W. "Wil" James, president of Toyota Motor Manufacturing Kentucky Inc. (TMMK), delivered the keynote address at the fall commencement exercises held Dec. 14 at Greensboro Coliseum.

James' career at Toyota spans more than 26 years. He was appointed to his current position in July 2010.

James passed along three lessons to the December class of 2013.

LESSON ONE: Always do what you commit to do and strive to over-deliver.

James learned this lesson as a boy. On one occasion James mowed the lawn as he was told but didn't go the extra mile of cleaning up the debris after the chore was completed. His father explained that over-delivering is "the difference between getting by and getting noticed."

LESSON TWO: Respect the knowledge of others and (then) go and see for yourself.

Early in his career, James was assigned a task that seemed equivalent to finding a needle in a haystack. A coincidental conversation with an experienced employee provided the information he needed. "Know where to go and who to ask," he said.

LESSON THREE: Never make a withdrawal until you've made a significant deposit.

James said that this lesson is true in finances and relationships. He advised the candidates to regularly deposit respect, trust and teamwork, ask the right questions and invest the time to listen. He also warned, "One careless move can deplete your account."

The Norfolk, Va., native received his Bachelor of Science degree in mechanical engineering technology Associate's degree in applied sciences from Old Dominion University in 1978 and 1976, respectively. He and his wife Michaelene reside in Lexington, which places him close to two of his three daughters and their families.

"Never make a withdrawal until you've made a significant deposit."

– Wil James



Millennials the Focus of 2014 Small Farms Week



For the 28th year, The Cooperative Extension Program at North Carolina A&T State University is setting aside a week to showcase the impact of small-scale agriculture in North Carolina with the 2014 Small Farms Week, March 23–28.

The events will begin in western North Carolina and culminate on A&T's campus, and will recognize the contributions of small-scale producers on farms that generate \$250,000 or less, annually, in gross sales.

Whereas last year the focus was on tools for the next generation, this year's theme, "Innovations for the Next Generation," looks at creative ways to reach the next crop of agriculturalists.

Even as this year's Small Farms Week theme pays homage to "millennials" or Generation Y — young people born in the 1980s to 2000s — Small Farms Week still celebrates small-scale farmers of all ages, land sizes and traditional as well as unconventional enterprises.

"We maintain our commitment to those farmers who have long been the backbone of our state — who have supported their communities economically and provided safe, nutritious and affordable food — even as we reach out to prepare that next generation of farmers and local food producers," says Dr. Fletcher Barber Jr., associate administrator for The Cooperative Extension Program.

"We celebrate the contributions of our experienced farmers and new and emerging farmers. We also pledge to continue the work, the outreach and support that Cooperative Extension has been providing to our agricultural base now for 100 years."

Some of the programs and workshops for the week's activities have been specifically tailored to a young audience, with the intention of demonstrating farming as a career, as a means of local-food production, and as a pathway to community empowerment and engagement. In addition, demonstrations and educational activities will be conducted at the University Farm, where middle school students will explore agricultural practices and learn about agricultural industry jobs.

Other learning experiences for students will include a lecture by a young food-systems pioneer, urban farmer Robin Emmons, honored last year as a CNN Hero; and a screening of an urban agriculture film, "Growing Cities."

Dr. John O'Sullivan, Cooperative Extension's professor of sustainable agriculture, local and community food, says the activities have relevance for students across the entire A&T campus and not just those in the School of Agriculture and Environmental Sciences.

"Students today are interested in the issues concerning where their food comes from and in jobs and economic opportunities in the food system as it relates to the African American community," says O'Sullivan, who is also the co-director of the Center for Environmental Farming Systems near Goldsboro. "They have questions about food deserts and economic opportunities."

This year Cooperative Extension at A&T and nationwide celebrate 100 years of its official founding in 1914.

JOMC Hosts Summit on Media's Coverage of Civil and Human Rights

On Nov. 1, the Department of Journalism and Mass Communication (JOMC) hosted a summit—Media Coverage of Civil and Human Rights in 2013: Unfiltered and Unbiased?—on how media have covered and reported civil and human rights issues and events. The event convened in Crosby Hall.

Participants were Bob Butler of the National Association of Black Journalists and N.C. A&T alumni Dexter Mullins of Al Jazeera America and veteran broadcast journalist Sandra Hughes, among others.

One of the town hall sessions, Media Accuracy in Civil and Human Rights, examined how accurately media have covered civil rights, human rights and race-related issues in 2013. The second session, Crisis Communications in Civil Rights, explored crisis communications and the role of public relations professionals and media practitioners in high-profile civil rights and criminal cases involving race and ethnicity.

A reception honoring Hughes was part of the activities.

New PH.D. Program In Computer Science Is Approved

North Carolina Agricultural and Technical State University expects to admit the first class of students into the new Ph.D. program in computer science in the fall. The University of North Carolina Board of Governors approved the establishment of the program in 2013.

"The doctoral program is consistent with the A&T Preeminence 2020 strategic plan that aims to enhance graduate education and research," said Dr. Beryl McEwen, vice provost for strategic planning and institutional effectiveness at N.C. A&T.

"The new Ph.D. program will further strengthen the graduate programs at N.C. A&T by attracting highly qualified students for advanced study and research in information security, distributed systems and artificial intelligence," said Dr. Sanjiv Sarin, vice provost for research, graduate programs and extended learning, and dean of the graduate school.

The Department of Computer Science has been very active in extramural research funding, having secured \$9 million over the last three years that has led to the establishment of nationally recognized centers, such as the Center for Advanced Studies in Identity Sciences (CASIS), with funding from the ARMY Research Labs and the Center for Cyber Defense, which is funded by the National Security Agency and Department of Homeland Security.

"Over the past six years, our computer science faculty and staff have done an excellent job in preparing for this program," said Dr. Gerry V. Dozier, professor and chairman of the department. "We look forward to the new collaborations with other computer science departments throughout the Triad that will develop as a result of this program."

Biology Receives \$3.8 Million for Research Support

The National Institutes of Health has awarded the Department of Biology with a \$3.8 million grant in support of North Carolina A&T State University's Minority Biomedical Research Support (MBRS) Research Initiative for Scientific Enhancement (RISE) program.

The RISE program was established in the biology department in 2007. The grant will support 40 undergraduate students at its maximum capacity and 10 master's level students annually for five consecutive years.

The goal of the MBRS-RISE program is to increase the number of students in areas of biomedical and behavioral research. These students will be trained and mentored in state of the art research practices. They will also travel and present data at science conferences, participate in seminars, supplemental instruction, bridge programs, learning and living communities, and prepare for admission and success in tier Ph.D. programs.

Transportation Institute's Funding Renewed to Continue Serving Triad

One of the Piedmont Triad's key industries will receive two more years of education, research and workforce development from North Carolina Agricultural and Technical State University. The U.S. Department of Transportation has awarded a two-year renewal of funding for the Transportation Institute at N.C. A&T.

"The Triad's excellent geographic position makes it a prime location for the transportation and logistics industry," said Dr. Kathryn Dobie, director of the Transportation Institute. "But continued job growth and business success require more than just great location. Technology and the challenges of our economy make transportation and logistics as complex and dynamic as any high-impact industry.

"Our goal is to help the industry—and related ones, like construction—to grow and thrive in its rapidly changing environment and to be as efficient and effective as it can be."

The institute's initiatives serve students, industry professionals and businesses. In the past five years, it has received more than \$2.5 million from federal and state agencies. The ongoing programs include the Right of Way Training Program, the N.C. A&T/N.C. DOT Construction Contractor Technology Certificate Program, the Summer High School Transportation Institute, and the Eisenhower Transportation Fellowship program. It also offers seminars, workshops, lectures, publications and other information.

Established in 1970, the Transportation Institute is a program of the School of Business and Economics at A&T.

A&T received the new funding as a member of the Southeastern Transportation Center consortium, a group of 10 universities in the region. The university's funding is included in a \$5.5 million award to the consortium.

In addition to A&T, members of the regional consortium include the University of Tennessee-Knoxville, lead institution; University of Alabama, Birmingham; University of Central Florida; Clemson University; University of Kentucky; University of North Carolina Chapel Hill, and University of South Florida.

The new award is one of 10 granted nationwide to regional university transportation centers.



SAES Hosts Two National Conferences

The School of Agriculture and Environmental Sciences (SAES) hosted two national conferences in September, engaging thousands of people across the country in its programs and academic leadership and in North Carolina A&T State University's campus activities.

The National Goat Conference, held at the Joseph S. Koury Convention Center and University Farm, and National Teach Ag Day, which streamed live from the Alumni-Foundation Event Center on campus, were both coordinated by SAES faculty and staff. The conferences also provided training to A&T students who gained professional experience as part of panel discussions, workshops and technical assistance.



The National Goat Conference, held Sept. 15-18, included half-day workshops and demonstrations on goat health at the University Farm. The conference brought more than 300 researchers, current and prospective farmers and

ranchers, and academicians from across the country to Greensboro for the event that was sponsored this year by SAES.

Conferees hailed from as far away as Oregon and as nearby as Seagrove, N.C., to attend interactive workshops and demonstrations, and to hear from acclaimed experts on goats. The National Goat Consortium, a collective of 1890 land-grant institutions that includes A&T and 17 other universities across the Southeast, presents the conference triennially.

SAES's other national event, National Teach Ag Day, was streamed live on the Internet from the Alumni-Foundation Event Center, Sept. 26, to an onsite crowd of more than 70 and a viewing audience of more than 2,000. Viewers joined the webcast from 464 sites, 47 states, and several college campuses including Penn State, the University of Kentucky and The Ohio State University. In addition, the event generated 1,200 #taglive13 tweets from 615 contributors reaching 299,000 accounts.

National Teach Ag Day celebrates school-based agricultural education and is designed to share career opportunities in agricultural education with students from middle school to college and service programs, as well as with other professionals. The event was recruited to A&T by Dr. Antoine Alston, interim associate dean for academic studies, with key support from Dr. Chastity Warren English.

A&T was recently honored as a Teach Ag Champion by the National Teach Ag Campaign, in recognition of serving as host institution for the National Teach Ag Day program and webcast. The campaign is an initiative of the National Council for Agricultural Education, led by the National Association of Agricultural Educators (NAAE) and is funded by the CHS Foundation as a special project of the National FFA Foundation.

With strong programs in agricultural, environmental, family and consumer sciences designed to serve the needs of agribusiness, rural communities, and urban food producers, A&T is an active partner of the National FFA, an organization with half a million members nationwide.

National Environmental Conference Ignites Innovative Ideas, Information Exchange and Research Needs

More than 120 people from across the nation and abroad attended the 2013 National Conference on Advances in Environmental Science and Technology that convened Sept. 12, in Greensboro, N.C., on the campus of North Carolina A&T State University. Participants included environmental industry, federal, state and local agencies, experienced professionals, lawmakers, community leaders, and graduate and undergraduate students.

The conference provided a forum for agencies to address advances in environmental science and technology including problems, solutions and research needs. The goal was to foster relationships that could result in partnerships needed to protect and sustain the environment and improve the quality of life.

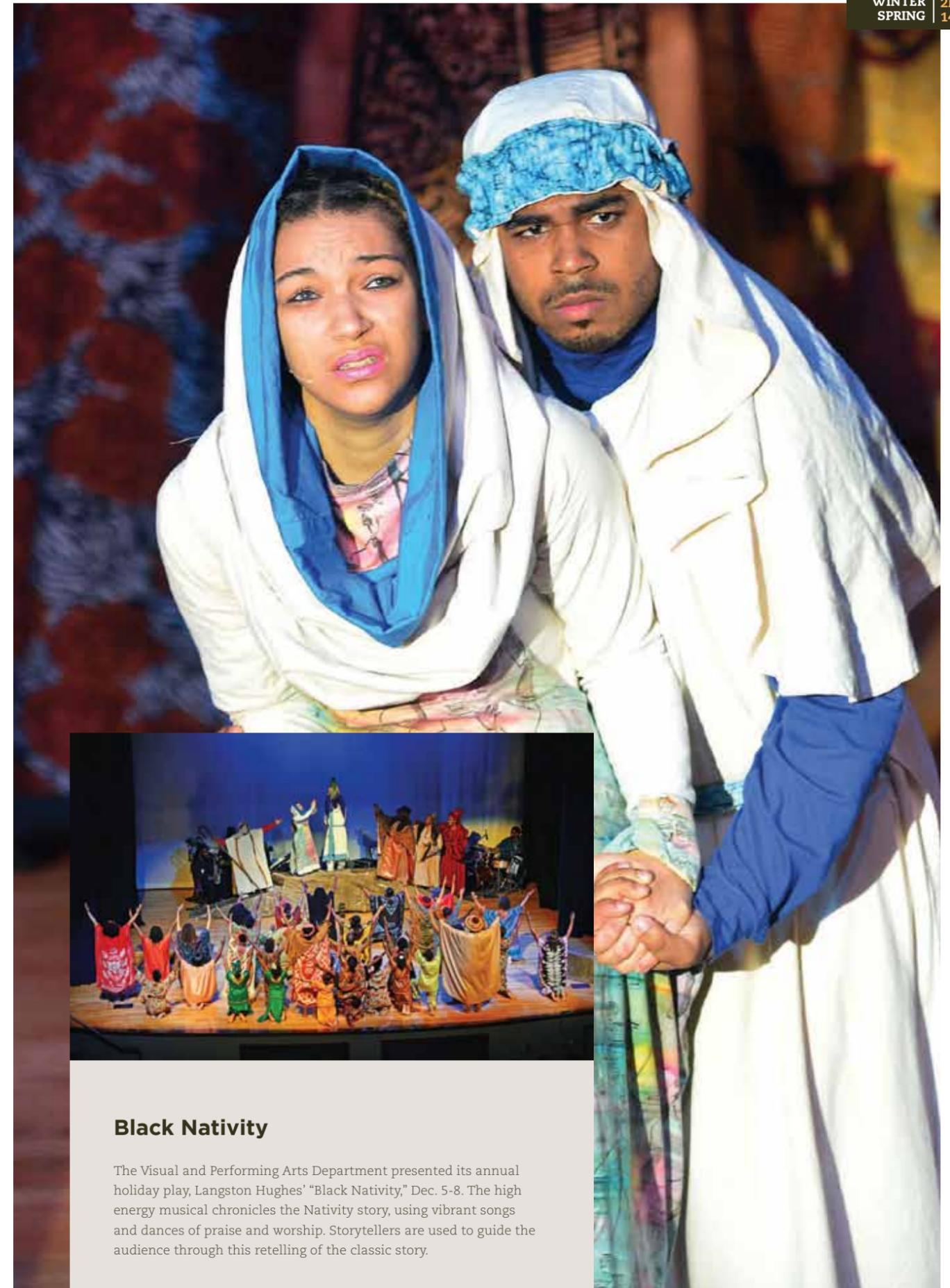
The national environmental conference with more than 70 presenters and co-presenters offered two general sessions, two concurrent sessions and a poster session highlighting more than 50 technical papers. The featured keynote speakers were Michael Maloy, vice president of Sullivan International Group in San Diego; Greg Green, director of outreach and information, United States Environmental Protection Agency, and Barry Edwards, director of utilities and engineering, Catawba County Government, N.C.

General session presentations focused on environmental regulations, groundwater remediation technologies and waste to energy, while technical sessions covered topics on climate change, economics and environmental justice, fate and transport of contaminants, food bio-processing, innovative environmental technologies, sustainable energy and water resources and waste management.

Dr. Godfrey A. Uzochukwu, professor and director of the Waste Management Institute at N.C. A&T, served as executive chairman of the conference.



Visit www.ncat.edu/~wmi for video highlights and program.



Black Nativity

The Visual and Performing Arts Department presented its annual holiday play, Langston Hughes' "Black Nativity," Dec. 5-8. The high energy musical chronicles the Nativity story, using vibrant songs and dances of praise and worship. Storytellers are used to guide the audience through this retelling of the classic story.

campus briefs

Faculty and Staff



Dr. Zerihun Assefa, professor of chemistry, was recently named a National Faculty Mentor Role Model by Minority Access Inc., a 501(c)(3) nonprofit organization that assists individuals, academic institutions, corporations, and federal, state and local government agencies in diversifying their campuses and work sites.

Two faculty researchers have been named 2014 Data Science Faculty Fellows by the National Consortium for Data Science: **Dr. Rajeev Agrawal**, associate professor in the Department of Computer Systems Technology, and **Dr. Justin Zhan**, assistant professor in the Department of Computer Science. Their research projects are “Designing Sustainable and Domain-Neutral Next Generation Data Infrastructure to Advance Big Data Science” and “Community Detection on Big Networks,” respectively.

Each researcher will receive \$30,000 to support their research. They are among five researchers awarded fellowships for 2014.

Dr. Solomon Bililign, professor of physics and director of the NOAA-ISET Center, presented a paper—“Impacts of Biomass Burning Organic Acids, and Aerosols on Climate and Air Quality over the African Continent”—at the Africa Climate Conference in Arusha, Tanzania, Oct. 15-18. The conference is organized through the collaborative efforts of the World Climate Research Programme (WCRP) of the World Meteorological Organization (WMO) and the African Climate Policy Center (ACPC) of the United Nations Economic Commission for Africa (UNECA), and was hosted by the University of Dar es Salaam.

Bililign also organized and chaired a session at the 80th annual meeting of the Southeastern Section of the American Physical Society, Nov. 20-23, in Bowling Green, Ky. The session was titled “The Role of Physics in Geosciences: Earth and Atmospheric Physics and Climate Physics.”

Dr. Guibing Chen, assistant professor in the Department of Family and Consumer Sciences and lead scientist for food processing and engineering at the Center for Excellence in Post-Harvest Technologies, has had two articles summarizing results from his research published in the International Journal of Food Science and Technology. “A comparison of two methods for estimating microbial survival parameters from dynamic survival data” summarizes some of Chen’s research into food sterilization and pasteurization processes. “Estimating microbial survival parameters from dynamic survival data using Microsoft Excel” describes a simplified process for estimating microbial survival parameters. Chen is also the recent recipient of a \$299,988 USDA Capacity Building Grant for a three-year study, “Development of wheat bread enriched with microfluidized corn and oat brans.”



Dr. Salil Desai, associate professor in the Department of Industrial and Systems Engineering, has been awarded United States Patent No. 8,573,757. His invention provides a method of generating

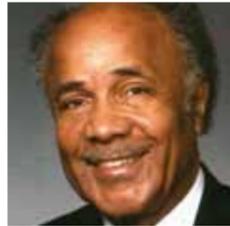
scalable micro to nano-patterned features on a substrate. The method involves ejecting a succession of droplets and altering their sizes in flight from micro to nano scale dimensions, thus giving control on the topography of the final 3D freeform features and enabling researchers to deposit nano to micro droplets of different colloidal materials including metals, ceramics, polymers, bio-fluids, etcetera. Complex three-dimensional structures can be fabricated on curved surfaces at high throughput rates. This technology provides diverse applications in the fields of semiconductor electronics, photonics, NEM/MEMS, sensor development and regenerative tissue engineering.



Dr. Elham “Ellie” Fini, civil engineering; **Dr. Mahour Mellat Parast**, applied engineering technology, and **Daniel Oldham**, graduate student, make up the N.C. A&T Bio-Adhesive Team that won the grand prize of \$100,000 at the 2013 Mega Watt Ventures in Tampa, Fla., last September. Fini serves as the team’s technical advisor. MegaWatt Ventures is an annual clean energy business plan competition sponsored by the United States Department of Energy, in conjunction with Southeastern universities in the U.S. The competition is designed to encourage the commercialization of innovative energy-related technologies from the lab bench into the marketplace.

The Bio-Adhesive Alliance’s winning technology utilizes swine waste to create a durable construction adhesive that enhances pavement performance. Recently, the team was named champion of the ACC Clean Energy Challenge.

campus briefs continued



Dr. Edward B. Fort, professor and chancellor emeritus, edited “Survival of the Historically Black Colleges and Universities: Making it Happen (The Africana Experience and Critical Leadership Studies),” a book that “serves as a ‘think piece’ for those concerned about the future of HBCUs” as well as “a guide for those who need enlightenment on the status of these institutions ...” Fort also authored the preface, introduction and three chapters—“For HBCUs: The Real Challenge,” “The Difference Is Leadership” and “On-Campus Diversity and Its Challenge”—and the conclusion. The book, part of The Africana Experience and Critical Leadership Studies series edited by A&T professors Dr. Abul Pitre and Dr. Comfort Okpala, is published by Lexington Books.

The oral history of **Perry Howard**, associate professor in the Department of Natural Resources and Environmental Design and coordinator of the Landscape Architecture Program, School of Agriculture and Environmental Sciences, has been added to the archives of The HistoryMakers, a non-profit organization based in Chicago that was established to videotape, preserve and share biographies of African Americans who have made significant contributions to their professions and American society.

Dr. Mary T. Lewis, associate professor of social work, Dr. Maura Nsonwu, assistant professor of social work, Dr. Sharon Warren-Cook, assistant professor and interim chair of the Department of Sociology and Social Work, along with Dr. Raleigh Bailey, University of North Carolina at Greensboro Center for New North Carolinians, and A.B. Mayfield-Clarke of Summerfield, N.C., have published a chapter, “The Complexity of the Nexus of Poverty and Health: Impact on Immigrants and Refugees,” in a two-volume set titled “Poverty and Health: A Crisis Among America’s Most Vulnerable.”



Dr. Harold L. Martin Sr., chancellor, has been selected to serve on a United States Senate task force to examine the federal regulations and reporting requirements on institutions of higher education. The bipartisan group will be tasked to review mandates on institutions of higher education added by Congress and the U.S. Department of Education. Members will be expected to offer recommendations that will consolidate, streamline and even eliminate regulations and requirements to make these processes less confusing.



Dr. Jagannathan ‘Jag’ Sankar, director of the Engineering Research Center for Revolutionizing Metallic Biomaterials (ERC-RMB) and Distinguished Professor of Mechanical Engineering, has been recognized by Triad Business Journal as one of the “Triad’s Most Influential” People for 2014. This is the sixth consecutive year Sankar has been named to this notable list.

Dr. Tonya Smith-Jackson, chair of the Department of Industrial and Systems Engineering, and her colleagues **Drs. Marc Resnick** and **Kayenda Johnson**, have co-edited a textbook on ergonomics. “Cultural Ergonomics: Theory, Methods and Applications” is an introduction and primer on how to implement the approach. It provides systemic methods on how to apply what is learned from analyses of culture to the design, development, and evaluation of products and systems.

Dr. Marcia Williams, director of STEM/sponsored programs in the College of Engineering, was a panelist at the Association of Public and Land-Grant Universities Annual Meeting in Washington, D.C., in November. The plenary session, “Undergraduate Research as an Institutional Strategy,” included members of the Council on Undergraduate Research and the Howard Hughes Medical Institute. Williams currently serves as a CUR councilor in the Undergraduate Research Program Directors division and a member of the URPD Broadening Participation Task Force.

campus briefs continued

Students



Senior honor student **Destenie Nock** has made N.C. A&T history as the first student to receive the George J. Mitchell Scholarship, and she is the first student attending a historically black college or university (HBCU) to receive the award.

The Lusby, Md., native will represent the United States in Ireland as a 2015 Mitchell Scholar. She was selected from a pool of over 300 applicants across the nation. As part of the selection process, she attended a reception hosted by the Irish ambassador at the Irish Embassy and was interviewed by a panel that included the Irish ambassador, the senior project director at the Trust for the National Mall and a former vice president of the World Bank.

While in Ireland, Nock—who is majoring in electrical engineering and applied mathematics—plans to earn a Master of Science degree in sustainable electrical energy systems at Queens University in Belfast. After receiving this degree, she intends to pursue a Ph.D. in an area focusing on wind energy. Her ultimate career goal is to be a faculty member at a major research institution promoting the use of wind energy in the U.S. as well as in developing countries.

The Mitchell Scholarship was established in 1998 by an endowment from the Government of Ireland and is funded in collaboration with the U.S. Department of State. The scholarship seeks to establish a partnership between emerging young leaders in the U.S. and institutions in Ireland. Recipients are selected on the basis of scholarship, leadership, and a sustained commitment to community and public service.

Nock is also one of three winners of the 2014 Black Engineer of the Year Academic Award, which will be presented at the 28th Annual BEYA STEM Conference's Student Leadership Awards Ceremony in Washington, D.C., in February.

Senior computer science major **Joi Carter** has been selected to receive the 2014 Black Engineer of the Year Leadership Award, an honor given to two undergraduate students nationally who have demonstrated leadership in engineering through personal accomplishments and developments and has promoted science and technology. Carter will be honored at the 28th Annual BEYA STEM Conference's Student Leadership Awards Ceremony in Washington, D.C., in February.

On Nov. 9, the Graduate Student Advisory Council took the National Association of Graduate and Professional Students 27th Annual Conference by storm, making history as the first HBCU to become a voting member of the organization and claiming two national offices and three regional offices for 2014. In addition, the Aggies participated in the four-day conference presenting in breakout and poster sessions.

Dwayne A. Johnson, council president, was elected national chair of the Social Justice Committee; **Yasmine Farley** was elected national chair of the Employment Concerns Committee; **Raleta Summers** was elected chair of the Southeast Region; **Brittany Glover**, chief of staff, was elected director of communications (Southeast Region); and **Amber Urooj** was elected chair of employee relations (Southeast Region). **Tiffany Richardson**, executive vice president, and **Osejje Oriaifo**, representative, School of Agriculture and Environmental Sciences, also participated in the conference.

In September, 10 civil engineering students were invited to Washington, D.C., for the two-day World Energy Engineering Congress Conference: **Brandy Diggs, Jordan Gooden, Kelyn Green, Deanna Ho, Shakira Ibrahim, Justin Montgomery, Dana Ruth, Ariel White** and **Haley Williamson**. Among the speakers were former California governor, Arnold Schwarzenegger, U.S. Senator Jeff Sessions and William Colton, vice president of corporate planning for Exxon Mobil. WEEC paid the registration fee for the students and two faculty members, **Dr. Sameer Hamoush**, chair of civil, architectural and environmental engineering, and **Dr. Taher Abu-Lebdeh**.

Tia Mills, who is pursuing a Master of Arts in Teaching (M.A.T.) degree in physical education and health, performed her student student teaching (grades 7-12) at Ansbach Middle High School in Ansbach, Germany, during the fall 2013 semester. She is the first graduate student in the Department of Human Performance and Leisure Studies, School of Education, to teach in the German school system.

Last summer, civil engineering majors **Yillian Rivera** and **Tiffany Williams** participated in the Advancing Minorities' Interest in Engineering (AIME) internship program in Germany. AIME, in partnership with the U.S. Army Corps of Engineers, assists undergraduate minority students in gaining employment in the field of engineering. The U.S. Army Corp of Engineers provides housing.

"Our German neighbors helped us understand the language and adapt to the culture. There was such a sense of community," said Rivera, who is interested in environmental issues and got hands-on experience working on a rainwater harvesting project.

"Working in different countries helped me gain a more global perspective and understanding of the U.S. Army Corps of Engineers and what it takes to be a professional engineer," said Williams. "It was an incredible experience, from a cultural and engineering standpoint."

Rivera and Williams stayed in Mainz, the capital of the state of Rhineland-Palatinate. On weekends the pair traveled around Germany and nearby countries including Austria, Belgium, France and the Netherlands.

"I also learned the importance of networking and professional development after meeting three of our alumni from the College of Engineering who are employed with the U.S. Army Corps of Engineers. Aggie Pride is worldwide!"

campus briefs continued



Learning took on a global meaning for N.C. A&T and Virginia Tech engineering students during a two-week study abroad program last summer. Students participating in the Rising Sophomore Abroad Program (RSAP) ventured outside the traditional classroom for a diverse cultural experience in Italy, Switzerland and Germany.

RSAP is designed to introduce students to global teaming and leadership in engineering while providing cultural and practical experiences. The course emphasizes the importance of cultural competency for engineers, as well as the cultural, social and economic aspect of practicing engineering abroad.

Rodward Hewlin, a doctoral student in the mechanical engineering department, was one of 10 chosen from across the country to be recognized by the American Society of Mechanical Engineers (ASME) Fluid Engineering Division as a winner of the 2013 Graduate Student Scholarship Award for their outstanding papers presented at the Fluids Engineering Division Summer Meeting in Lake Tahoe, Nev.

Hewlin was a winner in the forum on fluid measurements and instrumentation for his paper, "Development of a Capacitance Based Void Fraction Sensor for Two-Phase Flow Measurements," co-authored by **Dr. John Kizito**, advisor and professor in the mechanical engineering department, accepted the award.

Hewlin received a cash honorarium of \$1,000 and a one-year tenure to serve on the Fluid Measurement and Instrumentation Technical Committee at the international level. The project is supported by grant funding from the Air Force Research Laboratory and United Technology Corporation with conference travel funded through Title III. Hewlin is the recipient of a Title III PhD Fellowship at North Carolina A&T State University.

The global engineering practicum is comprised of two intergraded modules, each containing pedagogical content equivalent to three course credit hours. During the two-week in-country module, students learn about the technological, social, educational and environmental diversity of these countries.

Sophomore civil engineering major, **Devaugh Nance** of Winston Salem, N.C., said his trip to Europe was an amazing experience. "It allowed me to broaden my experiences as a college student. We visited the Alp Transit, a European high speed rail network and the Lamborghini car factory where the most prestigious and sought-after super sports cars are engineered."

"I had never traveled abroad before, and didn't know what to expect," said **Mariyah Pressley**, a sophomore biomedical engineering major from Newport News, Va. "Traveling to Europe opened my eyes to so many different places and experiences. One of the highlights for me was our visit to Technische Universitat Darmstadt. I had a chance to meet students there and learn what campus life is like abroad. The trip was an opportunity of a lifetime with memories I will cherish for years to come."

RSAP is led by A&T College of Engineering alumna, professor and department head at Virginia Tech, Dr. Stephanie Adams. **Ronnie Bailey**, professor in the department of civil and architectural engineering at A&T, assisted Adams as co-teacher of the semester based distance-learning course. Bailey led the course at A&T and traveled to the Virginia Tech campus to lecture on visualization and the engineering design process.

HUMANITARIAN EFFORT

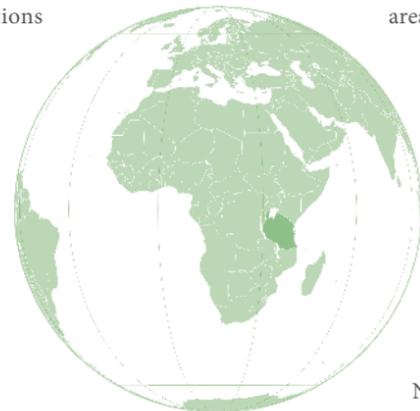
ENGINEERING STUDENT ERIC WHITE'S PROJECT HELPS PROVIDE SAFE WATER ACCESS FOR FAMILIES IN TANZANIA

By Terri Godwin

Soon after the spring 2013 semester ended, civil engineering student Eric White boarded a plane for East Africa. His mission was to learn Kiswahili, the native language, and work with a humanitarian organization to aid the people of Tanzania.

White worked through N.C. A&T's Office of International Programs and the Knowledge Exchange Institute (KEI), which offers a wide array of programs for students interested in integrating courses, internships and cultural interaction.

After a three-week Kiswahili language course in the Tanzanian city of Dar es Salaam, White traveled to Mahenge Town, a remote area of South Central Tanzania where he began an assignment with Caritas, a global confederation of Catholic organizations that provide humanitarian emergency assistance in developing countries.



Despite its abundance of lakes, safe water is in short supply in Tanzania. The Caritas-supported water resource project involved constructing a gravity water supply system that will be more sustainable long term during the hot and dry climate. Ultimately, the improved system will provide safe water access for children and families.

While working in Tanzania, White said he discovered that as little as 10 percent of the aid donated to governmental agencies actually reaches Tanzanian villages, while about 90 percent of non-governmental organization (NGO) funding is distributed.

"It made me think, I could create my own NGO to work in the villages performing the same kind of work," said White.

Before leaving Tanzania, White shared his vision of creating an NGO with village leaders to help deliver assistance and resources to poverty stricken communities. White was considering graduate school upon completing his undergraduate degree in December (2013).

Since his trip, White says the experience has changed his educational trajectory. Instead, he plans to raise money and return to Tanzania this summer (2014), to live and provide humanitarian aid under a registered NGO he is working to establish.

"Studying abroad in Tanzania was one of the most rewarding experiences of my life; not only did I get to direct my own study at my pace and in my area of interest, but I also forged memorable friendships.

"Having the support of my dean, Dr. Robin Coger, and Dr. Stephanie Luster-Teasley's Engage 2B Engineers program was huge. Without their sponsorship, I probably would not have gone abroad," he said.

White has spent time in Costa Rica where he learned to speak, read and write Spanish. As a student, he also traveled to Rio de Janeiro and Juiz de Fora, Brazil, for six months in 2010. In the summer of 2012, he participated in a research internship in South Korea sponsored by the National Science Foundation.



Eric White, a civil engineering major who graduated in December, with children and men in Mahenge Town, Tanzania, where he worked to bring safe water access to families.

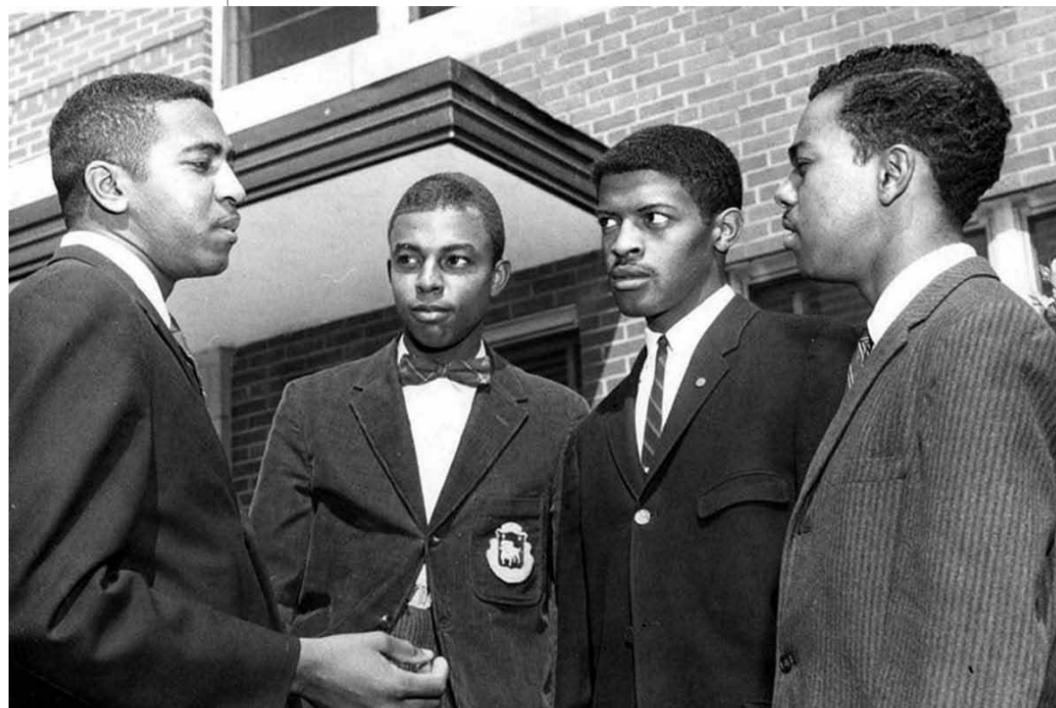


A legacy of courage

Franklin Eugene McCain Sr.

FRANKLIN EUGENE MCCAIN SR., a pioneer for justice, transitioned to eternal life on January 9, 2014, to be with his wife Bettye, who preceded him in death. Dr. McCain had dedicated his life to family and service.

Born January 3, 1941, to Warner E. McCain and Mattie M. McCain in Union County, N.C., McCain grew up in Washington, D.C., where he graduated from Eastern High School in 1959. McCain enrolled at North Carolina Agricultural and Technical State University (then A&T College) and graduated in 1964 with a Bachelor of Science degree in chemistry and biology.

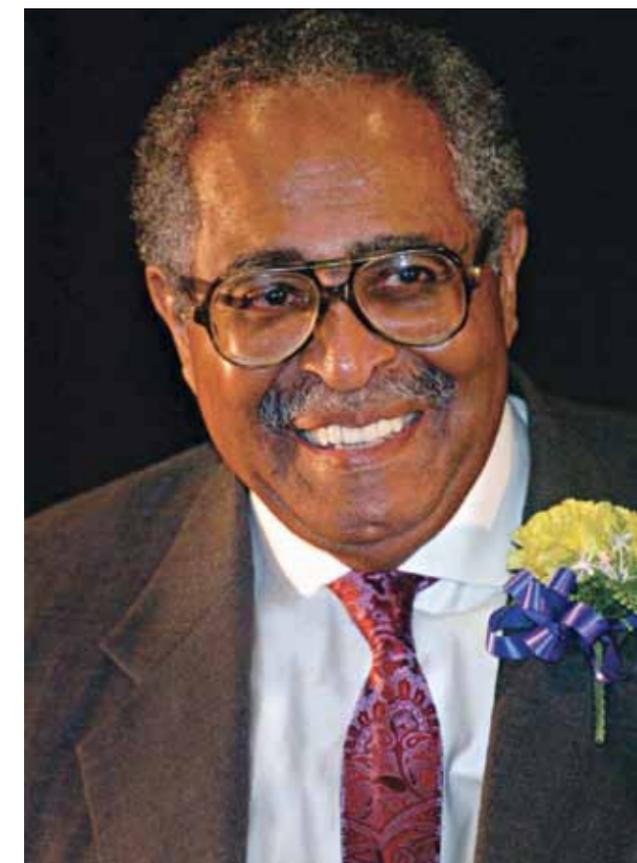


The A&T Four (l-r): Franklin E. McCain, Ezell Blair Jr., David L. Richmond and Joseph A. McNeil

While matriculating at A&T, McCain realized the wheels of justice were turning in the right direction for only a few and the masses were being eliminated from the process. He, along with three classmates Ezell Blair Jr. (now Jibreel Khazan), Joseph A. McNeil and David L. Richmond, decided to make a statement against the segregation and injustices that prevailed in the United States. They strategically planned to make a difference and on a cool Monday in February 1960, they began to implement their plan by walking that long mile from the campus to the F.W. Woolworth Store in downtown Greensboro. The courageous A&T Four (later known as the Greensboro Four) sat at the “whites only” lunch counter. This bold move served as a catalyst and a springboard for other sit-ins to take place in cities across North Carolina and the nation.

Because of their brave act, the Woolworth store was prompted to integrate the lunch counter five months later. Additionally, the Greensboro episode—as proclaimed by most—had the greatest impact, inviting national publicity and inspiring a heightened level of activism among college students and other youths. In the same year, the Student Nonviolent Coordinating Committee, one of the most effective civil rights groups, was born in Southern black colleges.

To commemorate the action of these young men, a portion of the lunch counter from the Woolworth store is now on exhibit at the Smithsonian’s National Museum of American History in Washington, D.C., and the site of the store in Greensboro, N.C., is occupied by the International Civil Rights Museum. It is an honor for Franklin McCain to have his legacy remembered in the city where he grew up and the one where he attended school and dared to make a difference.



McCain

A year after graduating from A&T, he married his Bennett College sweetheart, Bettye Davis, who shared his desire to correct a wrong and who also participated in the civil rights demonstration. Franklin and Bettye moved to Charlotte and had three sons: Franklin Jr., Wendell and W. Bertrand.

McCain was employed at Hoechst-Celanese Corporation in Charlotte as a chemist. His analytical skills were recognized and he was tapped to become a section leader in its home furnishings fibers division. He ultimately was promoted to senior executive at the same company.

McCain became a member of Memorial United Presbyterian Church where he gave freely of his talents and resources. He was an inspiration to everyone he met. He never boasted of his accomplishments, but always remained humble and forever encouraging others to rise to their fullest potential.

a legacy of courage

Although McCain never ran for public office, he was a mentor for those who aspired to serve. He instilled in them a zest for always believing in who they were and what they could do and to never settle for anything less. He was a role model, not only for his children but for their friends who would often visit his home to sit and talk with him and to learn about the real meaning of being true to yourself and your convictions.

McCain and his wife Bettye continued their fight for justice in Charlotte and worked tirelessly with the NAACP Legal Defense and Educational Fund, Incorporated. Franklin served as chairman of the North Carolina Regional Committee, which sponsored statewide events to raise funds for the NAACP LDF Fund Inc.



N.C. A&T Chancellor Harold L. Martin Sr.

McCain's work did not go unnoticed. He has been recognized and honored by numerous organizations across this state and nation. He was awarded an honorary doctorate from his alma mater, North Carolina A&T State University, in 1994, for his contribution to the civil rights movement.

Some of his numerous awards and recognitions include The Nancy Susan Reynolds Award for Advocacy, Humanitarian of the Year Award from North Carolina NAACP, The Order of the Long Leaf Pine from Governor James Martin, Pioneer for Freedom Award from Memorial Presbyterian Church, Drum Major for Justice Award for Civil Rights from the SCLC Women, Legend Award of the Rainbow PUSH Coalition and Citizenship Education Fund from Jesse Jackson and Martin Luther King, and the Nabisco Brands, Incorporated listing of Famous Black American Leaders.

McCain's academic excellence was manifested as he served as chairman of the board of trustees at North Carolina A&T State University, and on the boards of Bennett College, North Carolina Central University and the University of North Carolina Board of Governors. The latter penned a resolution on June 14, 2013, honoring him for his longstanding and loyal services to the university and to the State of North Carolina.

McCain made time to volunteer with many groups—two of those as a valued member and serving as sire archon and chairman of the Membership Council of Sigma Pi Phi Fraternity and as chairman of the Black Political Caucus.



McCain (left) and Jibreel Khazan (formerly Ezell Blair Jr.) share a moment on campus prior to the unveiling of the February One Monument. (Feb. 1, 2002)



McCain (left) and N.C. A&T alumnus Jesse L. Jackson Sr. (second left) join officials for the opening of the International Civil Rights Center and Museum in downtown Greensboro, N.C. (Feb. 1, 2010) Part of the ICRCM is located in the F.W. Woolworth building where the Feb. 1, 1960, sit-in occurred.

When great trees fall,
rocks on distant hills shudder,
lions hunker down
in tall grasses,
and even elephants
lumber after safety.

When great trees fall
in forests,
small things recoil into silence,
their senses
eroded beyond fear.

When great souls die,
the air around us becomes
light, rare, sterile.
We breathe, briefly.
Our eyes, briefly,
see with
a hurtful clarity.
Our memory, suddenly sharpened,
examines,
gnaws on kind words
unsaid,
promised walks
never taken.

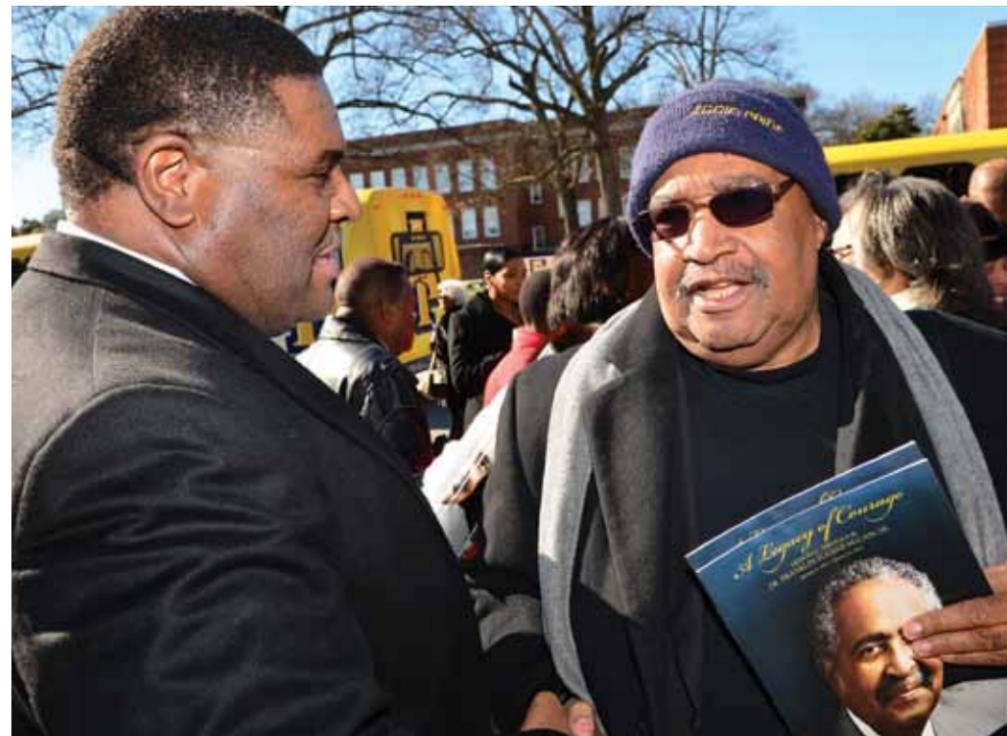
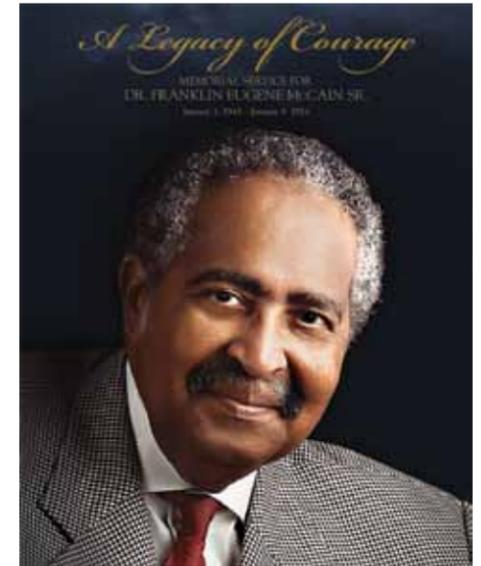
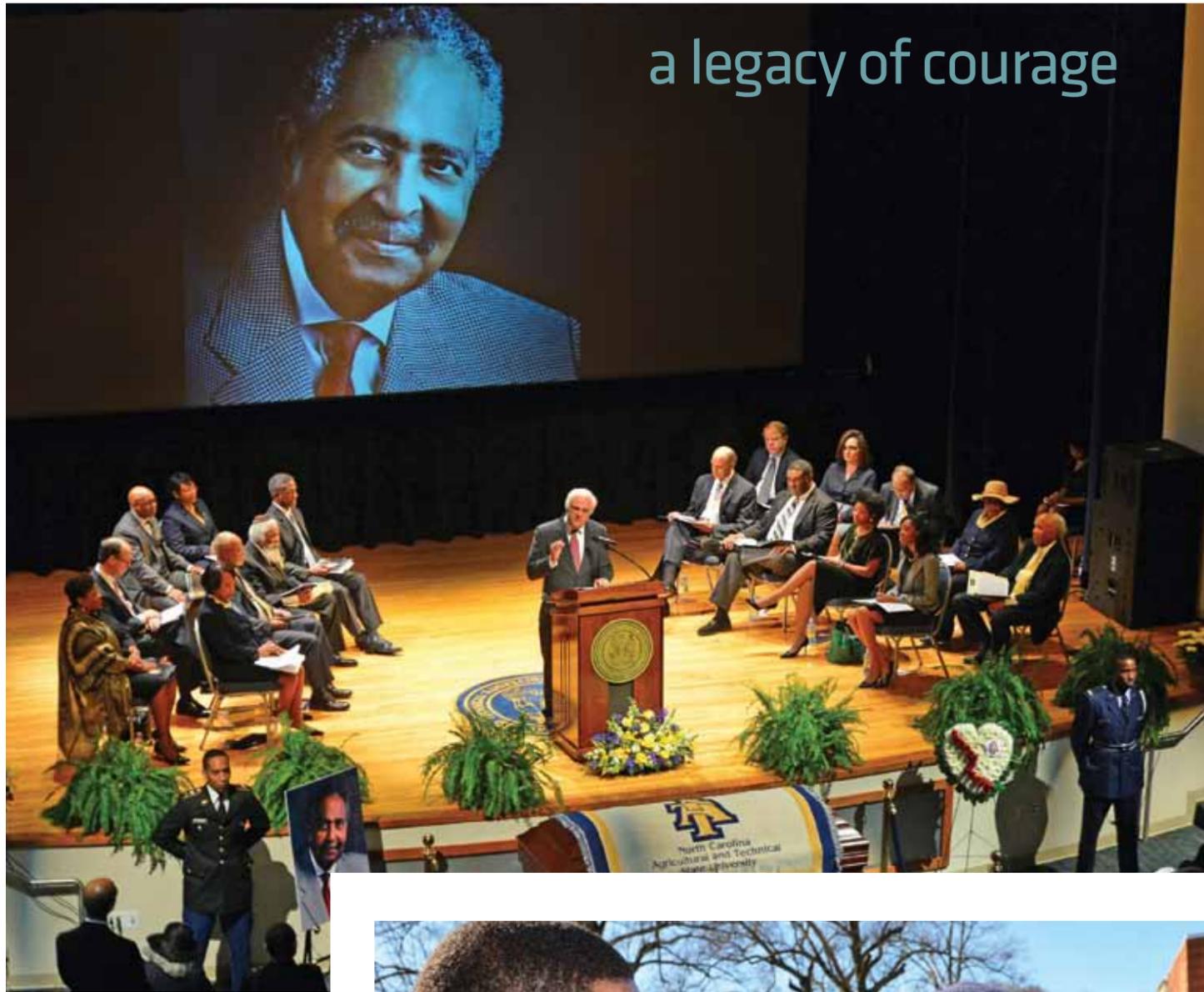
Great souls die and
our reality, bound to
them, takes leave of us.
Our souls,
dependent upon their
nurture,
now shrink, wizened.
Our minds, formed
and informed by their
radiance,
fall away.
We are not so much maddened
as reduced to the unutterable ignorance
of dark, cold
caves.

And when great souls die,
after a period peace blooms,
slowly and always
irregularly. Spaces fill
with a kind of
soothing electric vibration.
Our senses, restored, never
to be the same, whisper to us.
They existed. They existed.
We can be. Be and be
better. For they existed.

Many small trees will grow
To maturity and give shade
And oxygen and beauty
To the world
Because of the life,
Courage and inspiration of
Mr. Franklin McCain.

Our world is indebted
To this great hero!

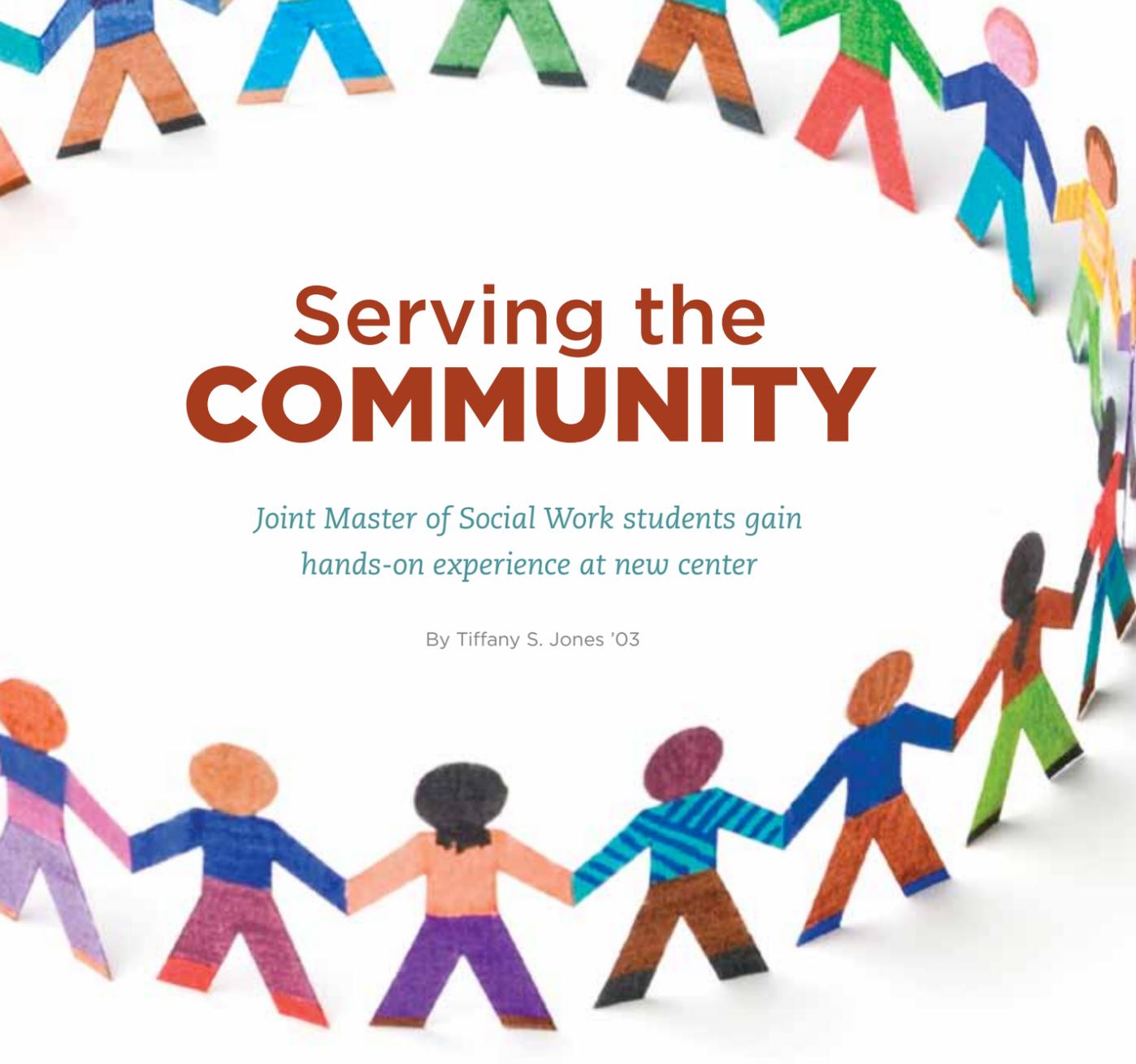
~ Written by Maya Angelou ©



Top: Family, friends and community share fond memories of McCain at the university's memorial.

Bottom: Franklin E. McCain Jr. (left) listens as A&T alumnus Lewis A. Brandon recounts his past experiences with McCain Sr. (Jan. 16)

Clockwise from bottom left: Harrison Auditorium prior to the memorial service; news media in front of the February One Monument on University Circle; program cover; A&T Four members Joseph A. McNeil (right) and Jibreel Khazan (left).



Serving the COMMUNITY

*Joint Master of Social Work students gain
hands-on experience at new center*

By Tiffany S. Jones '03

Tucked away in north Greensboro off U.S. 29 is one of the most valuable teaching tools for North Carolina A&T State University and University of North Carolina at Greensboro social work undergraduate and graduate students alike.

On Oct. 4, the Supporting Thriving Families (STF) project opened the Oakwood Forest Tutor Center in the Oakwood Forest mobile home community.

“This is a really amazing project,” said Dr. Yoko Crume, principal investigator and associate professor of the Joint Masters of Social Work (JMSW) program.

The Tutor Center has been made possible by a three-year grant from the Kate B. Reynolds Charitable Trust and the partnership of N.C. A&T, UNCG, UNCG’s North Carolina Center for New North Carolinians and the help of volunteers and donors from Americorps, Blevins, Caraway Mobile Home Movers, Frye Concrete Co. LLC, PDQ Construction LLC, Precision Decks & Garages, Swaim Electric, Heating & Air and Yes! We Care Charities.

Located in the heart of the Oakwood Forest community, the initial idea for the Tutor Center was to have a place for children in the primarily Latino neighborhood to have a place to do their homework and get the help they need with school work from Americorps volunteers. The center has grown to include help for adults that include English as a second language classes and counseling.

“This is a very unique and innovative program,” said Dr. Maura Nsonwu, principal investigator and assistant professor in the Department of Sociology and Social Work.

This project is the product of a long history of strong collaboration between the social work programs of A&T and UNCG.

This project is the product of a long history of strong collaboration between the social work programs of A&T and UNCG. The goal of the STF project is to increase access to culturally responsive mental health services for the Latino residents.

Innovative ideas for sustainable mental health services have been identified and include locating the service in the resident-supported activity center at the Oakwood Forest community; providing bilingual services by social workers, AmeriCorps members, and volunteers; training the next generation of social workers to meet the needs of the Latino residents in the community; and engaging in research activities for community change and improvement.

This forward thinking of placing this program in a neighborhood with a large concentration of Latino residents is a significant factor in the project securing the funding from the Kate B. Reynolds Charitable Trust, Nsonwu said.

The trust was established in 1947 to improve the quality of life and quality of health for the financially needy of North Carolina. It is comprised of two divisions: (1) Health Care responds to health and wellness needs and invests in solutions that improve the quality of health for financially needy residents of the state and (2) Poor and Needy responds to basic life needs and invests in solutions that improve the quality of life for financially needy residents of Forsyth County.

For Oakwood Forest residents to receive this access to counseling services, four graduate students from the Joint Masters of Social Work program along with three UNCG and one A&T undergraduate students will work at the center for their internship.

“This gives these students an opportunity for a good internship experience outside a traditional agency,” STF project coordinator Natosha Knight said.

The students will have an opportunity to counsel adults, families and children. JMSW student Julie Rains is one of the eight interns working on the project. She began work on the project in September and likes the program. She is invested already.

“My goal is to support the program in whatever direction they want to go,” she said. “I want to provide mental health services to people who need them.”

Rains’ enthusiasm is shared by her fellow interns, Crume said.

“They’re excited because they see that what they are learning in the classroom can be applied in the real world,” Crume said. “There are a lot of students who just want the experience they get to come and help people. It’s nurturing for all of us.”

Principal investigators Crume, Nsonwu, Dr. Jay Poole, assistant professor of social work at UNCG, and Dr. Raleigh Bailey, CNNC director emeritus, worked together for more than a year to write a proposal for funding for this project. It was important that community engagement be a large piece of this program as Crume and Nsonwu teach it to their students.

“We talk about being culturally competent and the students realize they need to learn the culture and the language—this program gives them a hands-on approach.”

It is that hands-on approach that appeals most to Rains because she gets the chance help break down the barriers that hinder Latino people from the mental health services they need.

“There’s a stigma, sometimes, there’s no insurance and a lot of it is just the lack of access to the services—I want to be able to help them get the help they need,” she said.

For the duration of STF, the number of interns will be capped at eight but there are several volunteer opportunities for students from A&T and UNCG. Volunteers will not be given an opportunity to participate in counseling services for liability reasons but they can be of use in other ways.

“Students can help with everything from tutoring the kids to coming with us on field trips to teaching the English as a second language classes,” Knight said. “It’s such a unique experience in that we are very community based and we get to serve all ages based on what they need.”



★ KING of the QUEEN CITY ★

Alumnus Patrick Cannon '99 is mayor of Charlotte, N.C.

By Courtney J. Jackson '13

iStock/JillLang

When Patrick D. Cannon was in elementary school, he hardly imagined a career in politics. Instead, the newly sworn in mayor of Charlotte, N.C., had vivid dreams of pursuing a career in communications and business.

Determined to achieve his childhood goals, Cannon majored in journalism and mass communication and held a minor in business at North Carolina A&T State University. He was on track to following his dreams, until he attended his first neighborhood

meeting. There, he learned haunting stories of fragile communities immersed in less than fair conditions.

Cannon felt compelled to help, so he volunteered to be the voice of the people and to bring about change in the community.

“One of the communities that actually took me up on it was the very one I grew up in,” said the Charlotte native, who was sworn into office Dec. 2, 2013.



In 1993, at the age of 26, Cannon ran and won the District 3 council seat, making him the youngest elected official to join Charlotte’s city council. In 2001, he was elected as an at-large council member and served as mayor pro tem for four of those years.

Cannon arrived on the political scene with big ideas about public housing, recreational opportunities for youth and educational development, but in his first elected position his most prominent battle was the one against his young age.

“I think people became accustomed to having (elected officials) who were more tenured in age than I happened to be, but when they heard me begin to articulate what the issues were in the district, they immediately did a 180,” Cannon recalls.

In a short time he was able to convince them that where he lacked in age and experience he more than made up for in vision. Cannon was educated, articulate and prepared to combat the issues set before him. He used the skills he developed while studying at North Carolina A&T—research, communication and organizational skills—to his advantage.

Cannon shared that faculty and staff members like Dean Tuggle, Gail Wiggins, Jaqueline Pender-Jones and Tony Welbourne nurtured his professional abilities and prepared him for his current career path.

“All of the opportunities to engage with them paid off for me and helped me to become what I am today, the mayor of one of the largest cities in the country,” he said.

Cannon knows that leading one of the nation’s largest cities also comes with great responsibilities. Foremost, he plans to create more job opportunities. He also will focus on developing transportation opportunities, affordable housing and making the city an international hub for the distribution of goods.



In addition to his goals for economic development, Cannon also plans to take on social issues like domestic violence and mentoring. He wants to raise awareness for domestic violence and expand the Mayor’s Mentoring Alliance program.

At the age of seven, Cannon’s father was killed, leaving him and his mother struggling to make ends meet.

“Knowing and understanding that what she and I went through then, other people are still going through today,” he said. “One thing I want to do is help to change those situations and conditions if I can.”

At an early age, Cannon’s mother exposed him to the Big Brothers and Big Sisters of America mentoring program. It is an experience he reverences and holds dear to his heart.

“Now, I think it’s clear why mentoring means so much to me. It helped me along the way and I do believe, truly, it can help another young person achieve their goals,” he said.

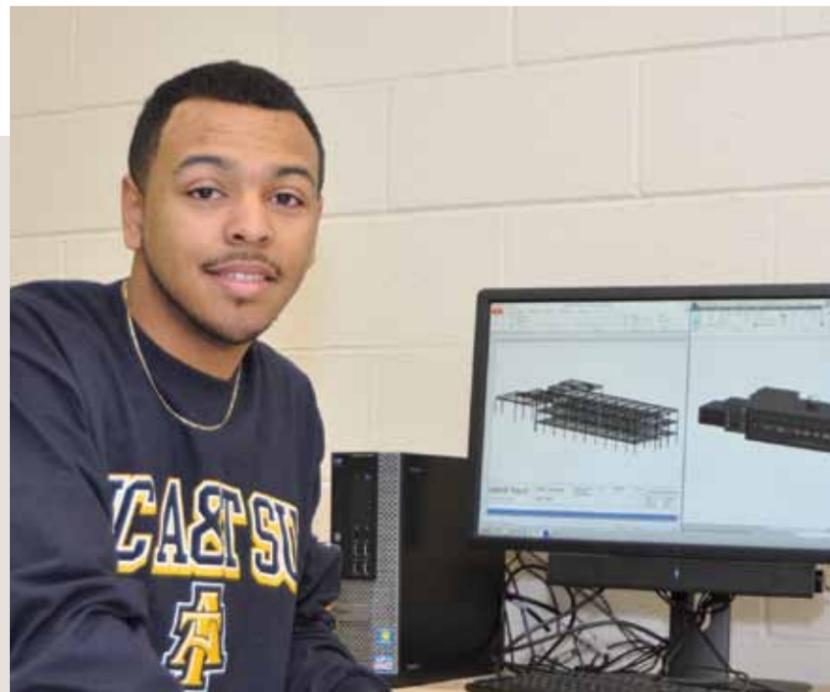
Cannon has had his fair share of obstacles but his life and legacy is proof that “good things come to those who wait, but greater things come to those who don’t wait,” he said.

The husband, father of two children, invested community member, small-business owner and new mayor of Charlotte, N.C., has no plans of slowing down. He began his career many years ago as a young man eager to make a change. Now, he sits at the helm of one of the most rapidly growing cities in the United States.

“The only thing between you and your success is air and opportunity,” he said. “There’s plenty of air. The question becomes, ‘What will you do to take advantage of the opportunity?’” Cannon explained.

people behind the scholarships

By Tiffany S. Jones '03



N.C. A&T sophomore accounting major Stanley Mitchell (left) and senior architectural engineering major Zachary Canady are recipients of the Emerson U. and Vernita Fullwood Xerox Endowed Scholarship this academic year.

Alumnus establishes scholarships in honor of family

William Tracy Stokes Sr. was born in rural Sampson County, N.C., and raised by a family who wanted more for him than they had themselves – an education.

Stokes' father, Harrison, never attended school or learned to read and write. The elder Stokes did, however, memorize the story, "Henny Penny and Chicken Little," and enjoyed telling it to everyone who would listen. It's a story William learned in the third grade.

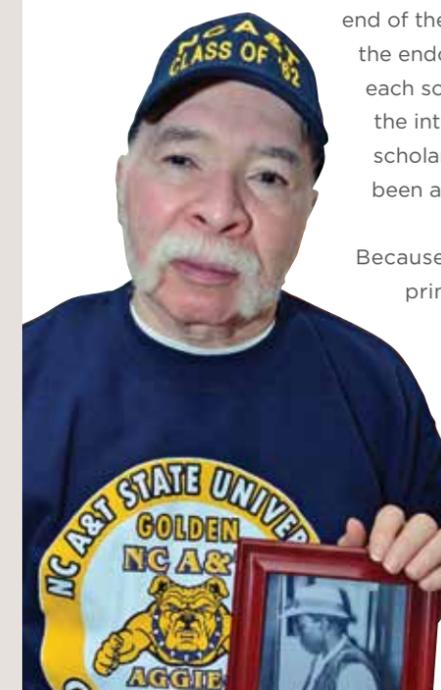
A relative, Louise Killett, dropped out of school in the eighth grade and felt it appropriate to help Stokes' parents, Harrison and Mary, send him to North Carolina A&T State University.

In the spirit of his family who made sacrifices to pay for his education, Stokes has pledged \$50,000 to create two endowment funds—the Harrison Stokes Endowed Scholarship Fund and the Louise Killett Endowed Scholarship Fund—to honor his family.

Both scholarships will be managed by the Office of Financial Aid and will be awarded to full-time undergraduate students attending N.C. A&T with a high school grade point average (GPA) of 2.5 and a minimum SAT score of 1000. Students who have a financial need will be given priority, and the awards are renewable as long as the student maintains a 2.5 GPA.

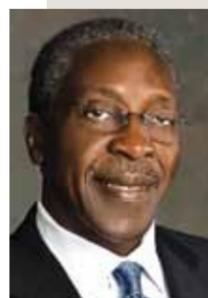
Stokes will make five annual pledge payments by the end of the fiscal year for the next five years. Once the endowment of \$25,000 has been made for each scholarship, the funds generated from the interest will be made available from the scholarship one year after the balance has been achieved.

Because these are endowed gifts, the principal investment of \$25,000 each will remain with the university in perpetuity. Stokes and others may make additional donations by gift or bequest. Any gifts made to these funds are eligible for matching under A&T's Title III program.



Stokes

Trustee pledges \$125,000 for scholarships



Fullwood

While Emerson U. Fullwood may have been named to the North Carolina A&T State University Board of Trustees last spring, his financial commitment to the university has surpassed his tenure as a trustee.

In 2012, Fullwood and his wife Vernita pledged a total gift of \$125,000 that includes their personal gift and a matching gift from the Xerox Corporation to create the Emerson U. and Vernita Fullwood Xerox Endowed Scholarship. The first of five annual pledge payments was made that year.

The scholarship will provide financial awards for undergraduate students majoring in degree programs in the College of Engineering, the School of Business and Economics or studies within the science, technology, engineering and mathematics (STEM) fields who demonstrate outstanding potential and high academic achievement. The student must have a minimum 3.0 grade point average, and preference will be given to students from socially and economically disadvantaged backgrounds.

Awards are renewable and eligible recipients must reapply. The minimum award per student is \$1,500 per academic year and recipients may receive up to four annual awards.

Fullwood, a North Carolina native, is the retired corporate vice president of Xerox Corporation. He began his career as an account representative and has held several executive and general management leadership positions within the company over the course of his career. He has been the executive chief of staff and marketing officer for Xerox North America, president of the Xerox Worldwide Channels Group, president of Latin America, executive chief staff officer of Developing Markets and president of Worldwide Customer Services.

He currently serves as a director of multiple health insurance and financial institutions nationally and several education and nonprofit civic boards of directors. Fullwood has also served as Rochester Institute of Technology's Minett Professor and has done some work with the E. Philip Saunders College of Business.

Fullwood holds a B.A. degree in economics from North Carolina State University, an M.B.A. in marketing from Columbia University and an honorary doctorate from N.C. A&T.

aggie athletics

By Brian M. Holloway '97

Aggies Win Homecoming and NCCU Matchup for Third Consecutive Year



Coach Rod Broadway likes to joke that when he assumed the job as head football coach at North Carolina A&T, Aggie supporters often told him all they wanted was to win Homecoming and beat North Carolina Central University.

Broadway should be in good standing having won this year's Homecoming game as well as the match against N.C. Central

N.C. A&T's impressive 59-12 Homecoming win over Virginia University of Lynchburg was as much about beating the Dragons as it was about becoming a better football team in the three remaining games of the 2013 season.

"When you're playing in game like this the thing you're trying to do is get better individually," said A&T head coach Rod Broadway. "That's what we're trying to get our guys to see."

"We were better than they were. But it's always nice to win. It doesn't matter if it is Homecoming or what; a win's a win. I'm proud of my guys. They stayed focused and played well enough to win."

A&T now has a 16-16 Homecoming record at Aggie Stadium.

During the match against longtime rival NCCU, the Aggies held the Eagles to 148 yards of offense in a 28-0 win at Aggie Stadium. In addition to it being the third win over the Eagles, the game marked the first time since 2003—when Broadway was head coach at NCCU—the Aggies held the Eagles scoreless. It was also the first time in 13 years the Aggies shutout a conference opponent.

Now Broadway wants to take the next step beyond just winning the Homecoming and NCCU games.

The Aggies will get back their spring practice after coming out of NCAA sanctions because of a low graduation rate. However, Broadway has some big names to replace including his entire secondary led by All-MEAC standouts Travis Crosby and D'Vonte Graham. Defensive end Tyree Heam and starting offensive linemen Timothy Sunkins, Danye Gorrell and Nathan Isles will be gone. There will also be a new quarterback in Aggieland next season.

"I think we're moving in the right direction," said Broadway. "We're out of penalty phase and next year we get all of our time back, which is big ... I am so looking forward to spring practice."

Bowling Team Sets Sight on MEAC Championship

In his fifth season as head coach of the North Carolina A&T State University women's bowling team, James Williams hopes to capture both Mid-Eastern Athletic Conference (MEAC) Southern Division and MEAC Championship Tournament titles.

The N.C. A&T Aggies currently hold the No. 2 spot in the South and are looking to bypass Norfolk State University for the division win.

"We're looking at a pretty good chance of actually winning the Southern division title. We're only two games behind Norfolk," Williams said.

The top four teams in both the North and South divisions will advance to the championships scheduled for March 21-23 in Chesapeake, Va.

"We're sitting in pretty good position to make sure we're invited in March," said Williams.

Courtney Crook a senior team member says that the team's chemistry has contributed greatly to the winning season. For Crook, capturing the Southern division title would be the team's greatest victory.

"We are expected to finish second, but if we get that top spot that would be huge," Crook said.

In earlier years, women's bowling claimed four MEAC Championship titles, including three back-to-back wins from 2001-02 to 2003-04. The Aggies qualified for the championship in 2012-13.

Although the championship games are still months away the Aggies are already bringing in awards. The team earned its first national ranking on Dec. 26, 2013, and secured the final spot on the National Tenpin Coaches Association Media Poll.

Cohen Named MEAC's Best Rookie

Over the course of seven consecutive weeks, N.C. A&T freshman running back Tarik Cohen of Bunn, N.C., made such an indelible impression on the Mid Eastern Athletic Conference, the conference's sports information directors and head coaches decided to make him the 2013 MEAC Rookie of the Year.

Cohen was the only Aggie to make first-team, all-conference.

Cohen did not become the Aggies starter until Game 5 on Oct. 12 at Hampton. He made sure he would never leave the starting lineup again by rushing for 180 yards and compiling 119 yards receiving while scoring a pair of touchdowns. In his seven weeks in the spotlight, Cohen went on to earn MEAC Offensive Player of the Week honors three times and MEAC Rookie of the Week honors twice. He led the conference in rushing with 1,148 yards and eight touchdowns. He also made 11 catches for 152 yards and a touchdown. He is the only Aggie freshman in school history to rush for 1,000 yards in a season.



Cohen is also a candidate for the Jerry Rice Award, an honor that recognizes the best FCS freshman in the nation. He is the second Aggie in four years to win rookie of the year after all-time leading rusher Mike Mayhew won it 2009.

"I'm so proud of him," said Broadway about Cohen. "If he keeps his head on right, this kid is going to be unbelievable. He's already unbelievable. A couple of years from now, this guy is going to be amazing."

Four Aggies—offensive linemen William Ray Robinson III and Nathan Isles, linebacker D'Vonte Grant and cornerback/return specialist D'Vonte Graham—earned second-team honors. Three other Aggies—strong safety Travis Crosby, defensive end Tyree Hearn and placekicker Cody Jones—made the MEAC's third team.

"It's wonderful to see eight of our guys recognized by the conference," said head coach Rod Broadway. "It truly shows how far our program has come in three years and how hard these young men have worked to see this program have better days. They deserve a tremendous amount of credit."

greatest homecoming on earth '13

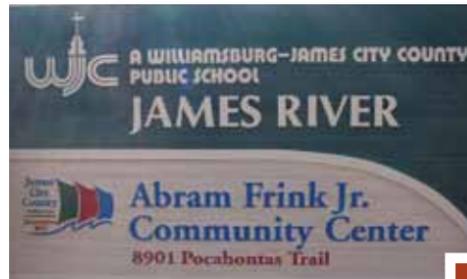


Once again, N.C. A&T's Homecoming was one of the best on earth. Alumni and friends from around the world embarked upon Aggieland to participate in the festivities. Homecoming Week 2013 kicked off with the coronation for Mister and Miss N.C. A&T, Anthony Fitzhugh and Ambriya Neal, respectively. And it wouldn't be Homecoming without a hot lineup of entertainers. Among this year's picks were Mike Epps and Friends, The Men of Soul (Jeffrey Osborne, Peabo Bryson, Freddie Jackson and Howard Hewitt), Kirk Franklin, T.I., J. Cole, Kelly Rowland, J. Cole and Juicy J. Other activities included golfing, tailgating, school/college cookouts, a step show and block party. Best of all, the Aggies won the game against Virginia University of Lynchburg, 59-12!



alumni news

AGGIES ON THE MOVE



1950s

■ The James River Community Center has been renamed the **Abram Frink Jr.** Community Center in honor of the 1952 N.C. A&T graduate for his service to various county boards and commissions in James City County, Va., from the 1960s through the 1980s. The new name was unveiled in November during a surprise celebration for Frink's 86th birthday.

■ **Henry E. Frye Sr. '53** is the subject of a book, "Henry E. Frye: North Carolina's First African American Chief Justice," by author Howard E. Covington Jr. Along with his career, the book traces "the growing participation of African Americans in the civic, political and social life of North Carolina."

1970s

■ **Kenneth A. "Ken" Free '70** was one of 13 inducted into the Guilford County (N.C.) Sports Hall of Fame's class of 2013. Free was a standout baseball player at Dudley High School in Greensboro. He later served as the first full-time commissioner of the Mid-Eastern Athletic Conference (MEAC) and various positions within the National Collegiate Athletic Association (NCAA).

First Lady Michelle Obama recently recognized **Demetria Tucker '72** for her work with the Pearl Bailey Library Youth Program in Newport News, Va. On Nov. 22, the program received the 2013 National Arts and Humanities Youth Program Award, which includes a \$10,000 grant and technical support. The library was among 12 after-school or out-of-school time programs across the nation chosen out of 350 nominations and 50 finalists to receive this year's award at the White House.

Tucker, senior family and youth services librarian, has worked with the library system since the mid-1970s. She worked for the Roanoke Public Library System until 2004 and then moved to the Pearl Bailey Library in 2008. She is also a recipient of the 2013 Coretta Scott King Virginia Hamilton Award for Lifetime Achievement.

1980s

■ **Gregory Marrow '80** is the chief information officer (CIO) for Durham County, N.C.

■ **Gwendolyn K. Ferguson '81** was featured recently in the Washington Business Journal. The "Capital One Bank salutes transformative leaders in our community" Q&A spotlights Ferguson's work with United Communities Against Poverty Inc., where she is president and CEO. The non-profit is the official Community Action Agency (CAA) for Prince George's County (Md.) and the leading advocate for communities of people facing deficiencies in education, affordable housing, economic stability and adequate health care access. UCAP is dedicated to providing ample services to individuals and families whose quality of life has been negatively impacted by poverty, unemployment, homelessness, crime and inadequate public health services.

■ **Frances Peppers '85** received the 2013 National Alumni President of the Year award from the National Black College Hall of Fame Foundation. The award was presented during the National Black College Hall of Fame Conference, Sept. 26-29 in Atlanta, Ga. Peppers served as president of N.C. A&T's alumni association from July 1, 2012, until June 30, 2013. She currently serves as vice chair of the executive board of The North Carolina A&T State University Alumni Association Inc.

1990s

■ **Sonja N. Hines '92**, president of H&S Resources Corp., was one of 25 women selected to receive the 2013 Women of Color Award from 100 Black Men of Greater Washington, D.C. Presented in partnership with the Women Presidents' Organization (WPO), the awards are based upon the success of these distinguished business leaders and for service to the community. Hines also has received a 2013 Top 100 Minority Business Enterprise Award (Maryland/Virginia/Pennsylvania/Delaware/District of Columbia region).

According to the Baltimore Sun Magazine (July 2013), Hines is one of 50 women to watch. Under her leadership, H&S Resources, a multi-million dollar company based in Columbia, Md., nearly doubled its revenue and more than tripled the number of employees in the course of a year. The company provides integrated facilities management, logistics and information technology services. It has been recognized as one of the 50 fastest growing women-owned companies in the nation by WPO.

■ **NaTasha Y. Williams '92** is a member of the Broadway musical, "A Night with Janis Joplin," where she is cast as a Joplinaire, blues singer, blues woman and Aretha Franklin. She recently performed with other cast members on the Wendy Williams Show. She also has appeared in "The Gershwins' Porgy and Bess" (Maria) and "The Color Purple" (Sofia) on Broadway as well as in other shows in New York City and across the nation.

alumni news continued

Michelle Cooper Kelly '94 has been appointed to a four-year term on the Marietta City (Ga.) Council, representing Ward 6. She is the first African American female to serve in this role.

The Oxford, N.C., native most recently served as co-chair of the Marietta Housing Authority Board of Commissioners. In 2012, she was a delegate to the Democratic National Convention, representing the 11th Congressional District.

Tim Atwell '95 is featured on the cover of US Black Engineer & Information Technology Magazine (Vol. 37, No. 2). Atwell is technology executive for the ATM channel at Bank of America, where he is responsible for delivering customer focused self-service technology solutions as well as vendor management and software and hardware reliability on more than 16,000 ATMs. He joined Bank of America in 2005. Prior to that he worked as an information technology leader at General Electric.



LaQuisha M. Parks '95 was recently named manager of the business excellence department at Duke Energy, providing operational and strategic direction, governance and management for the company's transmission and distribution damage claims function. Parks is also the founder of "Q" Cards LLC, a faith-based organization that provides motivational speaking and biblically based facilitation and teaching, and she recently published a book, "Job 41: The Leviathan Spirit of Pride."

Calvin Stevens Jr. was chosen as one of 10 individual winners of the 2013 Leader in Diversity award by the Triangle Business Journal. Stevens serves as the director of business development and diversity for Balfour Beatty Construction where he initiated the creation of the company's diversity mission, effort and program, has led its mentor/protégé efforts for seven historically underutilized business (HUB) firms in North Carolina and has mentored over 175 construction professionals.

Katherine Stevenson-Chavis is a 2013 recipient of the Director's Commendation Honor Award at Marshall Space Flight Center in Huntsville, Ala., where she is an engineering directorate.

This honor, the highest award given at MSFC, is given to an individual whose job performance and/or special accomplishments merit recognition where other avenues of recognition are not sufficient. Stevenson-Chavis was cited for outstanding leadership demonstration of professionalism and exceptional dedication as the lead systems engineer for the high energy replicated optics to explore the sun.

2000s

Ashley Watkins '04 is the public relations manager at Bouvier Kelly, a branding, advertising and public relations agency in Greensboro, N.C. Watkins has extensive experience in nonprofit marketing and previously was a part of a team that oversees the marketing and community relations efforts for the five-county territory that makes up Goodwill Industries of Central North Carolina Inc.

Lynnae Cennette Quick '05 received a Ph.D. degree in planetary science from Johns Hopkins University in May of 2013. She is one of only four African American women in the United States, and one of seven African Americans, to hold this degree. In August, she began a postdoctoral position at NASA Space Center in Greenbelt, Md.

Dr. Harold L. Martin Sr. '74, chancellor of North Carolina A&T State University, was honored Oct. 11, with the dedication and ribbon cutting for the new Martin-Schexnider Residence Hall on the campus of Winston Salem State University (WSSU).

The residence hall consists of two towers that are named after the university's former chancellors: Martin, who served as chancellor from 2000 to 2006, and Alvin J. Schexnider, who was chancellor from 1996 until 2000. Each tower holds 227 beds with two shared bathrooms and a common living space on each floor.

"I am delighted and honored to be a part of Winston-Salem State University's strong history and legacy," said Martin. "I am grateful to have served the Winston-Salem State University campus community as chancellor and truly find it remarkable to be recognized through the naming of the new residence hall alongside former chancellor Alvin J. Schexnider."



Pictured l-r: Martin, N.C. A&T First Lady Davida Wagner Martin '75, former WSSU First Lady Virginia R. Schexnider and former WSSU Chancellor Alvin J. Schexnider

Under Martin's leadership, the university was reclassified from a Baccalaureate I to a Master's II institution, a school of graduate studies and research was created, seven master's degree programs were established, the overall quality of academic programs was enhanced, and the university's enrollment doubled.

WSSU's board of trustees approved the naming of the building in September of 2012, in an effort to recognize those who have served as chancellor at the university.

IN MEMORIAM

ALUMNI 2013

- Jeff Berry '82**, Nov. 29
- Waymond Anthony Blackmon '76**, Greensboro, N.C., Oct. 26
- Samuel Edward Brown Sr. '48**, Wilmington, Del., Oct. 21
- Carolyn Rae "Carole" Simmons Carr '66**, Kingsport, Tenn., Oct. 25
- Brian Keith Easter**, Laurel, Md., April 16
- Penny McIntyre Eller**, High Point, July 24
- Anne Gaines-Swygert**, Greensboro, N.C.
- Ruby Mae Williamson Jones '54**, Greensboro, N.C., Nov. 28
- Fred Lutz**, Goldsboro, N.C., Nov. 17
- Charles Napoleon McLendon**, High Point, N.C., Sept. 7
- Caren Hobbs McPherson '98MS**, Greensboro, N.C., Dec. 7
- Marvin L. Morris, Saginaw**, Mich., Nov. 2
- Vera "Jean" O'Hara Rivers**, Statesville, N.C., Dec. 12
- Albert E. Smith '56**, Pembroke Pines, Fla., Nov. 17
- Ann Wilson Scales '80MS**, Greensboro, N.C., Nov. 26

- Kenneth Avery Smith '88**, Durham, N.C., Sept. 3
- Marshall Bruce Thompson '76**, Reidsville, N.C., Sept. 17
- Ruby Griffin Watlington**, Greensboro, N.C., Dec. 17
- Melvin Terrell Williams '97**, Greensboro, N.C., Oct.

EMPLOYEES AND OTHERS

- Helen Scott Donnell**, former barber of Memorial Student Union, Greensboro, N.C., June 3
- William H. Mitchell Jr.**, former instructor of biology, Greensboro, N.C.

ALUMNI 2014

- Gloria Debnam-Smith**, Portsmouth, Va., Jan. 7
- Matthew Little '43**, St. Paul-Minneapolis, Minn., Jan. 26
- Franklin Eugene McGain Sr. '64**, Greensboro, N.C., Jan. 9

Key Collaboration

Engineering Research Center gains key collaborator for commercializing revolutionary technology

By David Arneke

The National Science Foundation (NSF) Engineering Research Center for Revolutionizing Metallic Biomaterials (ERC-RMB) has a significant new collaborator.

On Oct. 23, 2013, executives of InCube Labs of San Jose, Calif., visited North Carolina A&T State University to sign an agreement to work together on bringing the ERC-RMB's technology to the medical marketplace.

InCube Labs is a life sciences research lab focused on developing and commercializing medical breakthroughs. It takes basic biomedical technology and develops medical applications that physicians can use to improve patient outcomes.

With more than 20 spin-off companies that produce implantable devices, drug delivery combinations, and interventional devices and use novel biomaterials, InCube Labs' background positions it well for implementing the ERC's novel magnesium alloys and other technology for implantable, bioresorbable medical devices.

Significance of the agreement

Dr. Leon Esterowitz of the National Science Foundation says InCube's commercialization expertise addresses a critical gap in the way biomedical technology is developed today. Esterowitz is the NSF program director working with the ERC.

"Translating knowledge from biomedical science into clinical applications has been compared to crossing a 'valley of death' because of the many issues that separate the scientist at the research bench from the M.D. at the bedside," Esterowitz says.

"Forty years ago, basic and clinical research were linked in institutions such as NIH (National Institutes of Health). Medical research was largely done by physician-scientists who also treated patients. That changed with the explosion of molecular biology in the 1970s. Clinical and basic research started to separate, and biomedical research departments emerged as a new discipline.

"The bulk of biomedical research is now done by highly specialized Ph.D. scientists, and the ecosystems of basic medical research and clinical research have significantly diverged. The gap left behind is the so-called 'valley of death,' and neither basic medical researchers, busy with discoveries, or physicians, busy with patients, have stepped into this void.

"Basic scientists have few incentives to move outside their comfort zone. It means getting involved with complex regulatory and patent issues. And it may also hurt their careers since it is not the type of research that gets published by leading journals and helps academic promotion.

"I believe Mir Imran and InCube can provide the tools and expertise to bridge this void."



iStock/muratkok

InCube was established by Imran, its CEO, in 1995. It has worked with Duke, Johns Hopkins, Stanford and several other universities. InCube operates labs in San Jose and San Antonio. Its corporate family includes a venture capital fund and a medical manufacturing company.

The ERC is developing novel magnesium alloys, polymer coatings, and sensors that can be used in implantable, bioresorbable medical devices that, at the appropriate time and rate, can be broken down within the body and pass out of it without the need for surgical removal. Such devices could include plates, screws, and wires used in orthopedic, craniofacial, and cardiovascular surgery. A prototype device now in testing is a wire cage to immobilize spinal disks after fusion surgery.

N.C. A&T leads the ERC consortium, which includes the University of Pittsburgh, University of Cincinnati, and Hannover Medical School in Germany. It is funded by the NSF, which has invested more than \$20 million in ERC research since 2008.

David Arneke is the director of research communications, Division of Research and Economic Development, at N.C. A&T.



remembering the past

PICTORIAL HISTORY BOOK TO BE PUBLISHED FOR 125TH ANNIVERSARY

A book, Pictorial History of North Carolina Agricultural and Technical State University, is being developed as part of the university's 125th anniversary celebration that will occur in 2016.

Old photographs and historical documents would help tell the university's history from 1891 to the present. Alumni and friends of the university are asked to submit items for possible inclusion in the book. Items should include the identification of individual(s) and event(s) involved, place and time. While inclusion is not guaranteed, all materials will be considered and returned.

Photos and documents should be sent/delivered by Monday, March 10, to the address below:

F.D. Bluford Library
Attention: Pictorial Review
North Carolina A&T State University
1601 East Market Street
Greensboro, NC 27411.

Include an appropriate self-addressed stamped envelope or box to allow return of materials.

Questions should be directed to the co-authors: Dr. Teresa Styles at teresaj@ncat.edu or Valerie Nieman, vgnieman@ncat.edu. Persons without email may call 336-285-4151.

CONGRATULATIONS NORTH CAROLINA A&T BLUE & GOLD MARCHING MACHINE!

First "Official" Winner, 2014 Honda Battle of the Bands Invitational Showcase in Atlanta, Ga.

In its 12th year, the Honda Battle of the Bands Invitational Showcase is open to all HBCU bands, with eight bands advancing to the showcase. This was A&T's third appearance.





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