

DIVISION OF ACADEMIC AFFAIRS
SCHOOL/COLLEGE
ENGAGEMENT ACTIVITIES
2008 - 2009



SCHOOL OF BUSINESS AND ECONOMICS

Engagement

Outreach and Access Activities

Significant interdisciplinary and external engagements are evident throughout the School. The work of the MIS faculty on the Center for Cyber Defense, coalitions between the Department of Business Education and the School of Technology have been enhanced, and cross disciplinary funding proposals with the College of Engineering and the Schools of Technology and Agriculture and Environmental Sciences are continuing. Through the Center for Economic Education, the School has significantly engaged with the School of Education and local public school systems to foster K-12 financial literacy.

Students have been actively engaged in University Governance and in programs to enhance student safety. Many students have become more engaged in study abroad programs; most recently, two 2009 graduates participated in semester-long programs in Spain and Denmark. The China student initiative is in its second year and is also gaining greater student interest.

COLLEGE OF ARTS AND SCIENCES

Engagement

Outreach and Access Activities

Engagement with the community and K-12 education is an important activity for the College's faculty, administration, and students. The College and its departments

hosted over 300 outreach and access activities in 2008-2009 (Appendix D1a). Some examples of these outreach and access activities include:

- The Department of Biology extended its outreach and public service activities in 2008-2009. The department reached out to high schools, sister institutions, local officials, the A&T community and the greater State of North Carolina community. The Department of Biology invited over 120 students from 7 high schools to participate in the 11th Life and Physical Sciences Research Symposium to hear and interact with the featured Nobel Laureate, Dr. Oliver Smithies. The Department of Biology offered the Students Hot on the Sciences (SHOTS) summer enrichment program for high school students during the summer 2008. Dr. Byrd and Mrs. Starks provided outreach seminars to more than 200 African Americans on Alzheimer's disease.
- The outreach activities of the Department of Chemistry are best represented by the Science and Technology Enrichment Program (STEP) directed by Drs. J. Kumar, M. Kanipes and M. Franks in summer 2008. Twenty students and two teachers from NC public school systems participated in this program. The high school students had "hands-on and minds-on" activities in the areas of analytical, organic, and biochemistry. They also did on-line research, wrote a technical paper and presented it to the STEP faculty, staff and parents. They will continue this program in summer 2009. The Department extended its outreach and public service to other high school students who were treated to a great presentation by undergraduate and graduate student volunteers of a magic show.
- In 2008-2009, the Greensboro Area Mathematics and Science Education Center's (GAMSEC) summer academy had 360 enrolled pre-college students. GAMSEC's Saturday academy during the academic year had a weekly average attendance of 160 pre-college students.
- Speech students performed complimentary hearing, speech and language screenings to all 3 to 5 year old classes at the Hayes Taylor YMCA Kiddie Kollege.
- In the Department of Journalism & Mass Communication, Prof. Bruce Clark produced Aggie Access and Aggie Sports Report for cable public access channel 8 (GCTV). He also produced Campaign Watch 2008, a forum on politics organized by the Department of Political Science and Criminal Justice. Dr. Teresa Styles served on the Knight Foundation's Commission on the Information Needs of Communities in a Democracy and on the Aspen Society's Program Advisory Group, helped with media relations for a local church's fundraising campaign, and interviewed Ms. Elizabeth Dowdy for a Bluford Library series on prominent alumni of the NC A&T State University.

- In Visual & Performing Arts, dance continued its dance academy on Saturday for ages 7-15. Twenty-five students participated (males and females) in the program this year. The children are tutored in dance and drumming. The closing event was Saturday, May 2nd and was attended by over 100 parents, grandparents and friends. The hour long performance featured drumming and dances of Ghana and South Africa and Dunham Technique.
- At the University Galleries, the major exhibition programming this year centered on the exhibition *Coming by Force, Overcoming by Choice*, which was originally organized by the National Alliance of Artists from Historically Black Colleges and Universities headquartered in Atlanta, GA. The exhibition was reinforced by a popular artist talk held on January 28, 2009 and additional group tours.
- The College of Arts and Sciences hosted the Top Teens of America on Saturday, March 28, 2009. Approximately 200 middle and high school students and their chaperones participated in a day-long event that provided exposure to the College's academic programs and affiliated programs including the University Band.

New Collaborations/Partnerships

Collaborations and partnerships with other institutions, organizations, and businesses are an important activity for the College's faculty, administration, and students. Some examples of these collaborations in 2008-2009 include:

- New collaborations/partnerships in Biology included: (1) Dr. Mary Smith partnering with NC A&T faculty (Drs. Patrick Martin and Marion Franks) and with the Wake Forest University Cancer Center (WFUCCC). (2) Drs. Checo Rorie and Perpetua Muganda implemented an NCI P20 cancer grant with the WFUCCC for cancer research and training in the Departments of Chemistry and Biology at NC A&T. (3) Dr. Smith and Dr. Goins continue to participate in collaborations with scientists at the Pittsburgh Supercomputing Center to enhance bioinformatics courses and research at NC A&T. (4) Dr. Goins is partnering with Dr. Thomas Redd in the Department of Mathematics to develop a biomathematics course.
- In Chemistry, Dr. Kuila and his postdoctoral scholar, Y. Basova, are collaborating with Drs. D. Kumar, S. Yarmalenko, and S. Ilias in the College of Engineering on the characterization of bimetallic nanoparticles in mesoporous silica and their catalytic applications. Dr. Assefa continues a highly productive interaction with a scientist at the University of South Alabama (Richard Sykora) that involves x-ray crystallography. Dr. Bae, Chemistry's new joint faculty with EES, is currently interacting with Dr. Steven Peckham of the National Oceanographic and Atmospheric Administration (NOAA), Dr. Susan Brantley, Penn State, and Dr. Jerold

Herwehe of the U.S. Environmental Protection Agency (EPA). Dr. Bae has also established a collaboration with Drs. Jeff Novak and Kyoung Ro of USDA-ARS. Dr. Basti has established a research collaboration with Dr. Shamsuddin Elias in chemical engineering at NCA&T that involves the study of the kinetics of EDTA/Pd⁺² binding and the kinetics of electrolysis deposition of Pd(s). Dr. Basti is also continuing an NSF-funded collaboration, with Dr. Paul Agris of the Department of Biochemistry at NCSU, to explore the use of UV-melt and circular dichroism (CD) in the study of Mg⁺² binding to mitochondrial t-RNA. Dr. Franks continues his collaborations with Drs. Suzy Torti and Yong Chen of Wake Forest University School of Medicine. Their collaboration involves the study of the chemopreventive activity of various synthetic chalcones on prostate cancer in cellular and animal models. Dr. Kanipes continues to collaborate with Dr. Patricia Guerry at the Naval Medical Research Center in Silver Spring, MD. Their research focus has been on the classification of food-borne pathogens such as *Campylobacter*. Dr. Venkateswarlu is interacting with Professor Joseph Audie of Sacred Heart University, Professor Philip N. Fay, University of Rochester, MN and Dr. Sriram Krishnaswamy of Children's Hospital of Philadelphia on the structure and activation of blood coagulation factors. Dr. Harp has been interacting with NASA senior researchers, Dr. Ji Su and Dr. Tian-Bing XU and has established collaborations with Dr. Sheila Ann Thibeault of NASA- Langley in the area of radiation and particle protection research. The faculty members of Chemistry have also been quite involved in developing the joint nanoscience programs (PhD and MS) in collaboration with UNCG for the Joint School of Nanoscience and Nanoengineering (JSNN).

- The composition program in English has established "Making Global Connections through Writing: A Writing Exchange Program" with the composition students at North Carolina A&T and the composition students at Nnamdi Azikiwe University, Awka, Nigeria, in Fall 2009. The goal of this program is to establish a writing exchange program between the composition students at North Carolina A&T in Greensboro, North Carolina and the composition students at Nnamdi Azikiwe University in Awka, Nigeria. Dr. Jane Brown, in partnership with Jerry Blackwelder, president of Blackwelder Communications in Greensboro, NC, developed "Better Business Communications," a course taught in the Spring of 2009 for Continuing Education. They have also proposed the following courses for Continuing Education: Writing Words That Sell, Email Netiquette, Direct Mail, and Paid Media Writing. These are online courses available through distance learning. Dr. Brown is also developing "Technical Grammar and Style" for the classroom as a result of teaching a class to the engineers and chemists at Banner Pharma Cap in High Point, NC through Continuing Education. Dr. Gregory Meyerson collaborated

with Dr. Michael Roberto of History to write “Obama and the Irreversible Crisis,” which appeared in *Socialism and Democracy*.

- Dr. Bravo de Rueda (Foreign Languages) translated an article from A&T History professor James Wood, which will be published as a book chapter in Chile. These two professors, along with Prof. Sarita Jackson (Department of Political Science & Criminal Justice) and members from Guilford College and the Triad community, are promoting a research group on Latin America. Conversations have begun between Foreign Languages and the Guilford County Health Department to explore the possibility of placing A&T students as interpreters and assistants.
- Members of the Department of Mathematics have partnered with the Black Child Development Institute and a number of other local civic organizations to provide tutoring services to elementary, middle and high school students. The department has also partnered with the NOAA ERSL through NOAA ISET CSC which offers graduate students an opportunity to conduct research in atmospheric science and meteorology. Dr. Yuh-Lang Lin of Physics and the EES Ph.D. program, and Drs. Tang, Kyei, Rastigejev and Roop of Mathematics recently formed a mathematical modeling and computational simulation group, and have involved several graduate students in applied mathematics, physics and computational science and engineering in NOAA ISET related research projects. Drs. Bangura, Burns, Cousins-Cooper, Oldham, Staley, and Tang are participating in the Institute for Advancement of Mathematics and Science initiative in the Guilford County which involves almost all local universities and colleges, community college and Guilford County Schools, and is sponsored by several local foundations and development organizations.
- In Physics, Drs. Bililign and Lin collaborated on a Cooperative Institute for Satellite Climate with the following Partner Institutions: Georgia Institute of Technology (lead), George Mason University, University of Maryland Baltimore County, North Carolina Agricultural and Technical State University, University of Georgia, Duke University, City College of New York. Dr. A. Kebede is an active participant of International Year of Astronomy during which several schools in Africa and North Carolina are participating in astrophotography using networked telescopes. Drs. Ahmidouch and Danagoulian joined the GEP-III collaboration at Jefferson Lab, Hall C. This collaboration includes the College of William and Mary, Norfolk State University, JLab, University of Regina (Canada), Argonne National Lab, Saclay (France), Duke University, Florida International University, Hampton University, University of Illinois, INFN Roma (Italy) and many other. Drs. Ahmidouch and Danagoulian are also leading partners of the SANE collaboration at Jefferson Lab, Hall C. This collaboration includes the University of Virginia, Norfolk State,

JLab, University of Regina (Canada), Argonne National Lab, Saclay (France), Florida International, Hampton University, the College of William and Mary, Temple University and many others institutions. Drs. Ahmidouch and Danagoulian continue as collaborators on an NSF-MRI grant for nuclear physics instrumentation in a collaboration between NCA&T Physics, Hampton University, James Madison University, and the College of William & Mary. Dr. Lin leads a global and mesoscale modeling research team (Lin, Tang, Kyei & Semazzi) on simulating African easterly waves and tropical cyclogenesis. Dr. Lin also leads several research teams on campus made of NOAA-ISET faculty from Mathematics and Chemistry. Dr. Lin has also established an array of international collaborations: (1) Prof. C.-S. Chen: the National Central University in studying the Mei-Yu rainfall and the Taiwan Island Monsoon Rainfall Experiment (TiMREX); (2) Dr. Samuel Westrelin: University of La Reunion, (Reunion Island) on tropical cyclones in the Indian Ocean; (3) Dr. H.-H. Hsu at National Taiwan University and Dr. Jin Lee at NOAA/ESRL on orographic effects on Madden-Julian Oscillation. Dr. Gasparain is the leader of the PrimEx collaboration which consists of 15 universities and six (6) international institutions. These include University of Kentucky, University of Massachusetts at Amherst, Norfolk State, Hampton University, Jefferson Lab, etc. Dr. Pedroni is also collaborating on a funded research proposal with Duke University as the lead institution, Calvin R. Howell as PI, and the University of North Carolina at Chapel Hill, Hugon J. Karwowski as PI.

- In Visual & Performing Arts, dance, theater, music and visual arts have joined in a new collaboration with the Partnership Village and the Servant Leadership School in Greensboro. The department hosted 20 children, parents, and volunteers on campus for a workshop and mini performance for the children.

SCHOOL OF TECHNOLOGY

Engagement

Outreach and Access Activities

Technology Fair

August 28, Student Services hosted a Technology Fair and extended the invitation to 750 undecided students. The Technology Fair served dual purposes: (1) to introduce our programs to undecided students; and (2) to solicit freshmen and upperclassmen to sign up and become involved in any of

the 18 student organizations available in the School of Technology that serve the community.

High School Technology Awareness

October 25: 181 students from C. E. Jordan High School, Durham, NC were invited to the School. Each department had two demonstrations for a total of 8 presentations showcasing the School of Technology.

October 29: all day classroom presentation conducted by SOT faculty at Andrew High School, 9:00 a.m. to 3:00 p.m.

November 7: all day classroom presentation conducted by SOT faculty at Smith High School, 9:00 a.m. to 3:00 p.m.

Brown Bag Luncheons

Student Services hosted 4 Brown Bag Luncheons

September 4: Joi N. Bass (former Manufacturing System student) Environmental Health, and Safety Manager at Cargill – “Power of Networking”

September 8: Jaime Thompson (Former GCS student), and Melissa Macdonald, EMC², “Employment Opportunities in Sales”

September 25: David Chamblee, TYCO Electronics, Manufacturing Systems Alumni, 93, “Employment Opportunities in TYCO Electronics”

October 29: Peter Heineman, Entrepreneur-in-Residence – “What It Takes to Be an Entrepreneur”

Black History Month Programs (February)

February 12, 2009, Seminar: “Sales Professionals – The Demands, The Rewards” Speakers: Les Young and Tasheen Alston, IKON

February 17, 2009 Seminar: “Entrepreneurship” - Speaker: Peter Hyderman

February 19, 2009 Seminar: “The Future of the Printing Industry” – Speaker: Mike McClintock, Production Manager, IKON

February 26, 2009 Workshop: Resume Writing and Interviewing Tips – Speaker: Ashley Reynolds, Human Resources Manager, IKON

Woman’s Month Program (March)

March 10, 2009: “Women in Corporate America....High Achievers and Their Stepping Stones”. Day one consisted of a panel of women from various job functions within Cargill, Inc, Operations, Engineering, IT, Finance, & Meat Solutions. Panelists **discussed entering into Corporate America as a woman and working from a woman's perspective.**

New Collaborations/Partnerships

The Manufacturing Systems Department is participating in several University-wide, multi-disciplinary advanced degree programs including Computational Science and Engineering Master’s Degree Program, Computational Science and Engineering Ph.D. Degree Program Proposal,

Professional MS in Nanoscience and the Joint School of Nanoscience and Nanoengineering program.

SCHOOL OF EDUCATION

ENGAGEMENT

In addition to its outstanding degree and licensure programs, the SOE has a number of signature activities that promote excellence and equity in education. Our exemplary funded projects, partnerships and outreach/community activities contribute to economic development in the Piedmont Triad region as well as the state.

Outreach and Access Activities

- **Urban Education Institute:** A collaboration between SOE faculty and students (CUIN and HDSV), Leadership Studies faculty, faith-based organizations around the state, and local systems. The UEI was designed to engage educators, scholars, and community activists in “Think Tank” and roundtable sessions to assess current practices and explore research projects related to PK-16 African American male academic achievement. Over 70 individuals from schools systems, faith-based organizations, other community-based organizations, boards of education, departments of public instruction, and universities around the state and southeast region participated in the two-day event. The UEI program is included in Appendix A.
- **Rural Teaching Fellows:** A federally funded program delivered online and on-site for rural participants to acquire licensure in mathematics, science, elementary education, and special education. The areas served through this program are Bertie County, Lenoir County, and Greene County.
- **Content Mentoring for Middle Grades Math and Science Teachers:** A federally funded research project designed to study the effect of an innovative mentoring program on increasing the content knowledge and instructional effectiveness of middle school math and science teachers. Over 70 teachers in several Piedmont Triad school systems are mentored by content faculty from the College of Arts and Sciences, College of Engineering, School of Agriculture & Economics, School of Business & Economics, and School of Technology. Teacher education faculties from the SOE collaborate with the content faculty and also mentor the middle school teachers.
- **Guilford County Schools Middle College:** The Middle College is a collaboration between NCA&T SU and Guilford County Schools to provide

the first all-male public school in North Carolina. In addition to completing the high school curriculum, Middle College students are encouraged to take one or more college courses with tuition paid by GCS in hopes that they will decide to pursue their education beyond high school graduation. In addition each student is mentored by NCA&TSU students, faculty, or administrators. The principal and staff are housed in Hodgin Hall, where all of the Middle College classes are taught.

- Guilford County Schools Achievement Gap Committee: Dr. Anthony Graham, Associate professor of Curriculum and Instructor and Dean Ceola Ross Baber serve on the GCS Achievement Gap Committee. This committee works with community-based organizations, key schools, the GCS Board of Education, and the GCS Office of accountability and Research to collect, analyze, and disseminate data related to the achievement gap. The Achievement Gap Committee also works with these stakeholders to develop implement, and assess strategies for implementing systemic change related to closing the achievement gap.
- Service Mentoring Academics Responsibility Teamwork (SMART): The NCA&SU Teaching Fellows Program (housed in the School of Education) is a sub-grantee of a Learn and Serve America grant awarded to UNC chape Hill. The grant requires participants to identify two education courses a year that will add a service learning component. Pre-service coandidates work in teams of 2-3 and tutor 3-5 children a week at local high need schools. Washington Elementary is the program's PDS partner providing 50-75 wonderful children who come to campus twice a week for 1.5 hours each session. By the end of the third year, over 150 children will benefit from the SMART accelerated tutorial and service projects.
- CUIN provides access to higher education and outreach through the distance education programs. Supported through the distance platform are the 2+2 program, NC Teach, the RALC Regional Alternative License Center, and NC Model Teaching Consortium. The department offered a total of 73 classes that served approximately 1200 students.
- International outreach: The MAED Reading Program Randolph County Cohort donated 80 children's books, 30 children's magazines, and other supplies to the Oyoko Methodist Primary School in Koforidua, Ghana. Dr. Jane Davis coordinated the collection of reading, special education, and language arts books for donation to Teachers College of Freetown, Sierra Leone.
- The HDSV Annual Fall Family Counseling Conference draws counseling and other helping professionals from the Piedmont area for continuing education and professional development activities.

- The Rehabilitation Therapy program features two annual events, including Disability Awareness Week and the Rehabilitation of Racial and Ethnic Minorities with Behavioral Addictions (REMBA) annual conference. This year the REMBA conference collaborated with the North Carolina Governor's Institute on Alcohol and Substance Abuse for a 3-day conference hosted at the Proximity Hotel in Greensboro, NC.
- This year HDSV collaborated with the North Carolina Counseling Association to host a Drive-In Workshop. The workshop featured two 3-hour segments, the first of which focused upon ethics in counseling, and the second, upon the Educational Plight of African American Males.
- In fall 2008, The HDSV 640: Professional Orientation and Ethics class featured a lecture series. The purpose of the series was to bring eight field professionals to campus to discuss current counseling topics. Lecturers ranged from a NC district court judge, to a school principal, to school counselors, to professional counselors providing divorce medication services.
- Dances in Action, an HPLS community outreach program, participated in Success at School (Communities in Schools program) at Washington Montessori School.
- HPLS faculty members on the advisory board of the New Light At-Risk Intergenerational Outreach Program are initiating collaboration with local faith-based organizations to survey the impact participation activities by children in their programs.

New Collaborations/Partnerships

- In January the SOE Recruitment Coordinator and Director of Student Teaching formally met with Mrs. Lina Drinkard, Teacher Cadet Director, to discuss establishing a college partnership. Each college partnership reflects a certain degree of uniqueness based on the specific needs of the high schools being served and the resource and expertise available in the cooperating college. Colleges benefit by having the opportunity to showcase their campuses and programs to bright young people. Students benefit by having the opportunity to study with both high school and college educators. After working with the College Partner, visiting and taking part in special activities on campus during the year, many Teacher Cadet Students choose the partner institution to attend after high school. The School and Community Counseling advisory Board (SCCAB) was formed in AY 2008-09. The purpose of the board is to partner with helping professionals in the community to provide feedback concerning (a) student raining and development; (b) practicum/internship community resources; and (c) relevant changes and happenings within mental health. The CCAB includes persons from Family Services of the Piedmont, Guilford County Schools, School of

Education, and HDSV students. HPLS is collaborating with NC State University and a university in South Africa to submit a grant on tourism and transportation development in that country. The SOE collaborated with School of Agriculture and Environmental Sciences in initiating discussions with Mt. Olive College to develop 3+1 agricultural education licensure program.

Student Activities – Organized Student Activities and Groups: sophomore/senior survey results

- Three undergraduate student organizations – SNCA (Student North Carolina Association for Educators), CEC (Council for Exceptional Children) and KDP (Kappa Delta Pi International Honor Society) – engaged in several community service projects that benefitted our partnership schools, the Greensboro Urban Ministries, and other community-based organizations. EMPOWER is the student organization for adult education majors. In addition, the Graduate Counseling Association (GCA) serves students from all three counseling programs. There is a longstanding and vibrant chapter of Chi Sigma Iota (CSI), the international honors society for counseling professionals. Several HPLS students and a faculty member went on a field trip to Washington, D.C. to the CBC Health Braintrust/National Minority Quality Forum in cooperation with the Congressional Black Caucus. Five graduate students in the Adaptive Physical Education program obtained national certification in Adapted Physical Education by passing the National Standards examination.

COLLEGE OF ENGINEERING

Engagement

Outreach and Access Activities

The number of outreach programs continues to grow in the COE for several reasons. As faculty has become increasingly concerned about students' preparation before they enter college, they are getting involved in a variety of outreach to K-12 students. Some of the prominent efforts include the FIRST Lego League tournament which is managed by the COE for all teams across the state. The Society of Women Engineers (SWE) effort to introduce Girl Scouts to engineering has resulted in local television coverage of the increasingly popular SWE Girl Scout workshops for the past two years. A number of COE faculty serve as content mentors to regional high school teachers under the NSF grant led by the School of Education. Other activities include visits to Atlanta University Center for recruiting, active participation in the Pre-College Initiative Day, and partnering with the North Carolina School of Math and Science, Dudley and Martinsville schools, and the VA NSBE Jr. Chapter.

The COE and its students have forged important collaborations and relationships in the Triad region as a result of required senior design projects that students often complete in the surrounding community. For example, Industrial Engineering students have been helpful in re-designing the traffic flow in local hospitals for increased efficiency and greater accessibility. The number of community service activities continues to flourish among the students as they become increasingly aware of how important extracurricular activities are for their future. Specific details on these activities by various student organizations are found in Appendix C4.

The departments and centers in the COE continue to perform valuable outreach activities. For example, the Center for Energy Research and Technology has been offering many outreach seminars and workshops for the State of North Carolina on Energy related topics. Similarly, the Computer Science department is offering a Summer Camp for middle and high school students entitled, “For the Love of Computing and Music”. This summer camp introduces prospective students to the area of Computer Science as well as active research programs within the department.

New Collaborations/Partnerships

COE faculty and staff have continued to form new partnerships this year. The following partnerships and collaborations are being formed:

- Memoranda of Understanding with South Robeson County High School, Charlotte-Mecklenburg Schools, the Alamance-Burlington School System, Southern Engineering School and North Guilford High School;
- The NSF Broadening Participation in Computing’s Alliance for Advancing African-American Researchers in Computing (with Georgia Tech, Indiana University, Jackson State University, Norfolk State University, the University of Colorado, and Virginia Tech);
- The Center for Advanced Studies in Identification Sciences (with Carnegie Mellon University, Clemson, and the University of North Carolina at Wilmington).
- Proposed \$25M NSF Science & Technology Center with Michigan State (Lead), the University of Texas, the University of Idaho, and the University of Washington.
- Software Design & Development Intercollegiate Activity involving: Shaw University, High Point University, Bennett College, Winston-Salem University, and UNC-Greensboro;
- Partnership between the Electrical Engineering department and the School of Business, Economics Entrepreneurship Center, the Triangle Goodwill Foundation, North Carolina Central University, Purdue University and Dominion Energy.
- Partnership between COE and UNC-G to explore the efficacy of mastery-based learning in fundamental engineering courses.

Student Activities – Organized Student Activities and Groups

Students in the COE competed successfully (3rd place) against stiff competition from leading Schools and Colleges of Engineering across the nation in the Shell Eco Marathon Competition (Prototype Group) in Fontana, CA on April 15-19, 2009. They designed, built and perfected a hydrogen fuel cell car that achieved 1,074 miles per gallon! Their goal for the next year is to develop a similar car that will achieve 2,000 miles per gallon!

The College organized and hosted the annual Triad Programming contest. This is a regional programming contest with participants from UNC-Greensboro, High Point University, Elon University, Wake Forest University, and GTCC.

Teams of students went to the Spellman Computer Science Olympiad Competition as well as to the 2009 Tapia Conference.

Undergraduate and graduate student research teams were part of the Alliance for Advancing African-American Researchers in Computing (A4RC) and the Center for Academic Studies in Identity Sciences.

Graduate students performed a leading role in the “Stepping It Up Program” to enhance Kiser Middle School student participants’ academic performance and understanding of specific engineering concepts.

A team of Electrical Engineering and School of Business students participated in the National HBCU Business Plan Competition where they demonstrated a working prototype of a proposed company.

Staff Activities in support of Learning, Discovery, and Engagement

COE staff was active supporters of the academic and extracurricular activities. Students received hands on experience and training on computer use from the PC lab technicians. Engineering laboratory managers helped set up equipment for laboratory intensive courses. Staff members also helped in the First Lego State Championship, a mentoring program and colloquium activities for the students.

BLUFORD LIBRARY

ENGAGEMENT

Outreach and Access Activities

Once again the Library provided programming for both the A&T and Greensboro community at large. Such programming included the “Lunch and Literature”

sessions and guest speakers. Annual special programs such as National Library Week and African American Read In were continued. Other activities included participation in *Resident Life Resident Advisor Resources Fair*, New Graduate Student Orientation, and University Day Academic Expo. The “Happenings @ Bluford”, a link on the library’s home page, was used to promote activities at the Library and to spotlight services and new resources. Brochures were also developed to promote the library resources by or about speakers that visited the campus.

New Collaborations/Partnerships

The Library hosted an intern from the University of North Carolina at Greensboro’s School of Education and the Department of Library and Information Studies. The student was assigned to the Reference Department.

A new partnership was forged with the School of Business’ trading center. The Library created exhibits and developed resource guides pertaining to finance. Also, the Library hosted a “Meet the Author Session” with Keith Wyche, author of *Good is Not Enough*.

Student Activities

- The Sophomore Survey, which is given to all sophomores in the University of North Carolina system, in “Training to use Library” rates the Library in four (4) categories: hours, collections, training and overall service. Results from the 2006 survey, the latest available, reveal that the library rated 94.6% for the “Hours of operations” and 82.2% in “Training to use Library” compared to 73.9 % by other libraries in the University system. Student assessment of “Access to database collections” increased from 89.9% in the 2004 survey to 91.3%. Assessment of “Library services overall” was 91.6%. The Library consistently scores higher than other A&T campus units on the survey. (*Appendix F*)
- **Staff Activities in Support of Learning, Discovery, and Engagement**
Armondo Collins was awarded the F. D. Bluford Library Volunteerism Award for volunteering for a particular task not normally assigned to anyone in particular, WORKING for someone who is out, or just BEING available to help out wherever is necessary.
- *Theresa Coons* was awarded the F. D. Bluford Library Customer Service Award for regularly providing quality service to the Library in a positive manner which significantly exceeds the general expectations of the position.
- *Gardea Jaywhehgar* was awarded the F.D. Bluford Library Creativity/Initiative Award for demonstrated initiative in maintaining public computers at optimum level of performance.

- *Tiffany Russell* was awarded the F. D. Bluford Library Outstanding Employee Award. This employee's performance demonstrated excellence throughout the year and is recognized as a model for other employees.

SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

ENGAGEMENT

Outreach and Access Activities

The SAES's outreach and engagement programs are central to our mission of excellence. Boundaries between our teaching, research, and outreach (Extension activities) are indistinct, as they should be. As such, the mission of the SAES outreach and engagement enterprise is to focus on our relevance with respect to public scholarship that meshes scholarly work with community knowledge to produce benefits for the citizens of North Carolina. That is, the SAES faculties are working, in creative partnerships, with citizens to solve problems, improve agriculture and food systems, build healthy communities, and create new economic opportunities. Further, this outreach and engagement endeavor creates a wider understanding and appreciation of collaboration between the local community and academia.

The SAES faculties worked with citizens and/or citizen groups in North Carolina on a number of issues impacting their lives. Given space limitations in this report, only a sampling of programs and/or activities is listed below:

- The EntrepreneurShip Investigation Program (ESI) helps schools, 4-H clubs and other youth organizations explore entrepreneurial education. Two ESI trainings were conducted with 4-H volunteers, agents and youth representing 14 counties. These trainings were designed to help participants learn to think like entrepreneurs and become entrepreneurs in their own communities some day. Upon completion of the trainings, counties conducted a showcase with 32 youth participants sharing creative entrepreneurship ideas. As a result of the trainings provided, nine counties are piloting the program and one continues to use it.
- Shiitake mushrooms are being introduced as an alternative crop to farmers and is increasingly becoming a profitable alternative enterprise for limited-resource and small-scale farmers. Production has spread over the entire state.
- Two health fairs were held in October 2008 and March 2009. These fairs were co-sponsored with NovoNordisk, the pharmaceutical company that manufactures diabetes treatment medicine. A roundtable discussion was held during the October Fair to discuss strategies to assist local residents in treating and preventing diabetes. Local doctors and health care professionals

- participated in the discussion. Vendors were available to provide health screening and materials related to healthy living. Over 200 community residents participated in the health fairs.
- A \$1.5 million endowment was provided to the SAES by W.K. Kellogg Foundation for Local and Community Food Systems through a proposal supported by the Center for Environmental Farming Systems (CEFS), A&T, NCSU and NCDA&CS. This collaboration is grounded in outreach/research connected with Goldsboro and Wayne County through the Discover Agriculture Program and other local community programs as well as planned Seasons of Sustainable Agriculture (SOSA) educational programs. In addition, the plan is to build a campus program – connecting research, Extension and academic programs with a focus of sustainability.
 - A Turkish Day at A&T was organized by faculty in the Department of Family and Consumer Sciences. This event featured food and cultural activities related to the Turkish Culture. The event also featured a presentation by Faruk Logoglu, former Turkish Ambassador to the U.S.
 - SAES faculty participated in the North Carolina FFA Middle Grades Rally. This is the state level contest for all middle school level agricultural education programs in North Carolina. Middle schools compete in the following career development events: prepared public speaking, parliamentary procedure, exploring biotechnology quiz bowl, and exploring biotechnology.
 - Agricultural educators from across the state participated in a series of in-service workshops known as Summer Professional Development Workshops. These workshops were held on campus and covered such topics as biotechnology, sustainable agriculture, and agricultural mechanics technology.
 - Forwarding Reliable Information on Emerging and Novel Diseases (FRIENDS) funding provided by the Mobilizing Against Threats to Community Health (MATCH) project at the University of South Carolina was used by the Department of Animal Sciences faculty and Cooperative Extension specialists.) The goal of the program is to raise awareness among Extension county-based personnel, small-scale farmers and residents in underserved communities as to how they should prepare for and respond to emerging zoonotic disease threats. Also, through a partnership with several federal, state and county agencies, awareness has been built around animal and public health issues. Information has been developed specifically for the target audience, and activities which provide an environment to transfer information to the wider community has been supported. Outcomes from this project consist of: (1) Improving awareness of existing networks in support of citizens of North Carolina in responding to infectious disease outbreaks, (2) Improving the capacity of Extension agents to educate and advise growers on how they can safeguard their properties and livestock from disease, and (3) the production of educational products/deliverables.
 - Parenting Matters is an educational program offered by Cooperative Extension that provides training to court mandated and Department of Social Service (DSS) referred parents. In 2008, 529 limited-resource and social-

service agency referred parents participating in the parenting training reported consistently using positive parenting strategies. One Hundred and Fifty-seven (157) parents were recognized as having completed parenting training by participating in at least seven of the eight sessions in the Parenting Matters curriculum.

- Family and Consumer Science (FCS) Agents in five counties provided financial literacy training to 2,000 limited-resource families. These trainings taught participants how to develop budgets, set financial goals and track their spending to improve financial status.

Finally, these outreach efforts illustrate how campus and community collaborations enhance the quality of life for the citizens of North Carolina. Looking forward, we want our research and engagement programs and activities to inform and contribute to our research and classroom teaching, and we want our outreach and engagement programs and activities to make it easier for people to access the knowledge and expertise of our faculty. Over the past four months 3.7 million viewers have come to the SAES Web pages, each spending an average of 18 minutes on the site. The most active day for the site is Tuesday and the five most downloaded documents are: SAES Internal Controls Guidelines, February 2009 issue of *on the move*, the Science Fair Handbook created in Cooperative Extension, the SAES 2007 Annual Report, and the FCS Dietetics Student manual.

New Collaborations/Partnerships

Strategic partnerships are gaining momentum across the country, and are becoming powerful forces for A&T and other universities to strengthen the core missions of higher education, civic engagement and economic development. The SAES has actively sought out and acquired a host of collaborations/partnerships with universities, government agencies, and private industries from across the state and nation. Below is a sampling.

- Husqvarna Lawn and Garden Corporation partnered to sponsor an educator service school focusing on agriculture mechanics for agricultural education teachers. As a result of this collaboration 24 North Carolina agricultural educators were trained in the latest agricultural engine theory as related to commercially developed chainsaws. Teachers were given training manuals and a commercial chainsaw at factory cost. Teachers were also awarded continuing education credits as part of this collaboration.
- SAES faculty worked with community groups in Longview and Kilgore, Texas, and Fort Lauderdale, Florida, to document best practices that focused on solving complex community problems in addressing poverty issues.
- A new relationship has been established with NCSU College of Veterinary Medicine resulting in an SAES faculty member appointed to the Admissions Committee for NCSU's Food and Animal Scholars Program. This program allows SAES students to gain early acceptance to the NCSU College of Veterinary Medicine while enrolled at A&T. Currently there are two students enrolled in this program from A&T, and one has been accepted into

the 2008-2009 class.

- A new partnership has been established with the DuPont Company in Delaware in the area of Integrated Pest Management. Ongoing international collaborations include: Asian Vegetable Research Development Center (AVRDC), Taiwan; International Center for Research in Agro-Forestry (ICRAF), Kenya; Bogor Agricultural University, Indonesia; Chiang Mai University, Thailand; Nong Lam University, Vietnam; University of Philippines at Los Bonos, Philippines; ANGRA University, Hyderabad, India; Punjab Agricultural University, India; Indian Agricultural Research Institute, India; Indian Institute of Post-Harvest Technology, India.
- The Discover Agriculture program received support from the American Honda Foundation. “Young Scientists” and teachers engage in minds-on and hands-on activities while they see and learn about food and fiber production. Through exploration of the University farm, students learn by doing – the goal of informal education. Discover Agriculture engages students and encourages their successes in science, math, language arts, writing and nutrition. A total of 119 group tours were given in the spring and fall of 2008 – reaching a total of 2,911 students and 340 adults.
- The Family and Consumer Sciences and Agribusiness, Applied Economics and Agriscience Education departments, and Cooperative Extension collaborated to develop an honors course to be housed in the SAES (AGRI 400: Sustaining Agriculture, Food, Fiber, Nutrition, and Community for Humanity’s Future). SAES department chairs collaborated to develop an undergraduate research course (AGRI 499: Undergraduate Research) which can be taken by SAES students.
- An inter-institutional collaboration with the University of Maryland Eastern Shore (lead), and Southern University provided students in fashion merchandising and design opportunities to study abroad. Two students studied at the London College of Fashion for eight weeks. Additionally, 13 SAES students studied abroad as a result of collaboration with USDA and the A&T global studies division.

Student activities-organized student activities and groups; sophomore/senior survey results

- SAES students have 18 clubs and organizations. These include: Minorities in Agriculture, Natural Resources and Related Sciences (MANRRS); National Agri-Marketing Association (NAMA); Equine Club; Gamma Sigma Delta; Agricultural Education Club; Collegiate FFA; Pre-Vet Club; American Society of Agricultural Engineers; Alpha Tau Alpha; Alpha Lambda; Earth and Environmental Science Club; Agricultural and Biosystems Engineering Club; Landscape Architecture Club; Kappa Omicron Nu; Fashion X-Cetera; the Student Chapter of the American Association of Family and Consumer Sciences, and the Food and Nutritional Sciences Club. Activities sponsored by these organizations are designed to improve students’ experiential and service learning and develop their leadership and social skills while

reinforcing classroom learning. As members of professional student clubs/organizations, students have presented papers and participated in related student competitive activities (posters, quiz bowls, case studies, etc.).

- A&T Collegiate FFA attended the National FFA Convention from October 22 to 25, 2008 in Louisville, Kentucky. The A&T delegation to the convention included five students and two faculty members. A&T was one of the few HBCUs represented at the convention. But still, A&T was among the top five universities in student representation at the conference. Students participated in professional development workshops such as interviewing tips and career development. Students also maintained a booth at the career show which was attended by over 52,000 high school students, teachers, administrators, and parents. While at the convention, SAES students also participated in the second ever Collegiate Career Expo.
- The first SAES Unity Day was held with more than 50 SAES students attending. This activity allowed the SAES student organizations to unite and get to know one another. Debbie Gibbs from Murphy Family Ventures was the guest speaker and provided refreshments. Throughout the year, student clubs have participated in a number of activities including raising money for the homeless, assisting with community projects, conducting food drives, participating in CROP/AIDS walks, and adopting needy families over the holiday season. Students were also involved in a number of University athletic activities such as softball, dance, marching band, cheerleading, volleyball, football and track
- Students have also been involved in other activities, such as SAES Student Awards Banquet, Homecoming, University Day, University Open House, Farm/University Tours, Aggie Nites, Cluster Classroom Visitation, Advisory Council, SAES Ambassadors, and A&T Peer Advisors. The SAES Student Advisory Council meets once a semester with the dean and administrators. Members of the SAES Student Ambassadors sponsor some school recruitment and retention activities, such as the Student Extravaganza.

Staff activities in support of learning, discovery, and engagement

- The SAES staff has 93 persons serving as secretaries, administrative assistants, budget/payroll officers, research assistants, processing assistants, research technicians/associates, Cooperative Extension associates, office assistants, laboratory/field technicians, student service managers, farm personnel and communications and technology specialists. These individuals are very active in the learning, discovery and engagement enterprises, assisting administrators and faculty in teaching, research and Extension.
- Staff members play a significant role in fulfilling the tripartite mission of the SAES. Specifically, those primarily involved in research and Extension is

engaged in student activities, just like staff members on the academic side. They direct students to relevant offices, apprise them of University policies and programs, remind them of deadlines, provide counseling and assist in the discharge of their day-to-day responsibilities. Laboratory technicians and farm staff are a vital part of the student training process as they are invaluable in laboratory/farm experiential training of undergraduate and graduate students. They assist faculty in preparing experiments, research presentations, scientific articles, and in classroom instruction. The staff is encouraged to participate in all meaningful training workshops that will enhance their productivity. Additionally, about 80 percent of the faculty and staff have attended one of the Banner Training workshops and others are scheduled to participate in the workshop this summer. Other workshops attended include: budget and planning, EPA/SPA salary administration, Blackboard, Career Banding, response to audit, and human resources. Attending these and related workshops ensures that the staff is capable and equipped to organize school-related programs, conferences and workshops, and to prepare departmental reports. The support staff meets annually with the dean.

SCHOOL OF NURSING

ENGAGEMENT

Outreach and Access Activities

Initiated Future Nurses Clubs in 3 middle schools. Recruiter participated in multiple recruiting activities. A buddy program linked 10 high school seniors (from 6 high schools) with junior or senior nursing students at A & T.

New Collaborations/Partnerships

- The research partnership between several schools of nursing and Moses Cone Health System was re-initiated with enthusiastic leadership.

Student Activities

- Organized Student Activities and Groups: Teloca (Student Nurses' Organization), Chi Eta Phi and Sigma Theta Tau International (Mu Tau chapter) all were very active during the year.

Staff Activities in Support of Learning, Discovery, and Engagement

- Ms. Carliss Jacobs held monthly workshops and produced a monthly newsletter in support of student enhancement (targeted freshmen and sophomores).

GRADUATE SCHOOL

Engagement

Outreach and Access Activities

The School of Graduate Studies continues its cooperative efforts internal and external to the University to significantly increase the recruitment and support of our graduate students. The following highlights those efforts.

- **GEM**
The GEM Fellowship programs are designed to encourage under-represented minority students to obtain M.S. degrees in engineering and Ph.D. degrees in engineering and natural and physical sciences by providing academic scholarships and paid summer internships with corporate and government sponsors. The School of Graduate Studies serves as a conduit between the College of Engineering and the National GEM Office. The list of awardees and alternates are used to recruit students to graduate programs in engineering, natural and physical sciences.
- **North Carolina Louis Stokes Alliance for Minority Participation (NC-LSAMP)**
The North Carolina Louis Stokes Alliance for Minority Participation is a comprehensive, interdisciplinary, regional coalition of North Carolina institutions aimed at increasing retention, access, and opportunities for minorities in STEM disciplines. The NC-LSAMP program serves as a direct feeder of students into the NSF/OPT-ED program at NC A&T. As a result of mutual program missions, the NSF/OPT-ED and NC-LSAMP programs collaborate on developing programs and information sessions to better inform students about graduate and career opportunities in STEM disciplines.
- **INTERLINK**
International students who either do not meet the minimum TOEFL requirement or have not taken the TOEFL examination have the option of enrolling in the INTERLINK program at the University of North

Carolina at Greensboro or taking/retaking the TOEFL examination. The INTERLINK alliance provides an opportunity to attract highly motivated and academically competitive international students to the University by providing them with the means to acquire the prerequisite communication skills necessary to successfully complete graduate study at NC A&T. Confirmation of successfully completing INTERLINK Level Five is accepted in lieu of the required minimum TOEFL score.

- **NC OPT-ED Alliance**

OPT-ED at NC A&T identifies graduate students who have expressed as career goals the attainment of the Ph.D. and a career in the professoriate. Students are selected to participate in OPT-ED as either an Intern (first year master's students) or Fellow (advanced Master's students and Ph.D. students).

Twenty one students participated in OPT-ED during the 2008-2009 academic year.

- **Joint Master of Social Work**

The admissions applications to the Joint Master of Social Work degree program with UNC at Greensboro were coordinated at UNCG for the 2008-2009 year. The full-time students applying for May 2009 graduation participated in the North Carolina A&T Commencement exercise

- **University of North Carolina Exchange Program (UNC-EP)**

UNC-EP is designed to provide UNC students with a range of international educational opportunities at an affordable cost. The bilateral exchange agreement between the international institution and UNC institution allows one-for-one exchange of students between institutions. UNC students are charged the same tuition and fees that they would be charged at their home institution. A total of six UNC-EP students enrolled for the 2007-2008 academic year.

- **NIA**

The School of Graduate Studies supports and encourages creative visioning directed towards enhancing the intellectual development and training of students at NC A&T. To that end, the School of Graduate Studies provides administrative support and expertise related to implementing a collaborative initiative between the NC A&T and the National Institute of Aerospace (NIA) Graduate Education Program. The NIA Graduate Education Program allows NIA and NIA universities to maximize and leverage their resources by allowing staff at NIA, NASA and students at NIA universities to take courses, not listed at their institutions, at the partner institutions by means of the NIA partnership. NIA also provides research support to NIA/NASA staff and students at NIA universities interested in doing research for NASA. NIA universities include Georgia Institute of Technology, North Carolina A&T State

University, North Carolina State University, the University of Maryland, the University of Virginia, and Virginia Tech.

New Collaborations/Partnerships

Energy & Environmental Studies (EES)

- A new collaboration has been initiated with the Pisgah Astronomical Research Institute (PARI) in which lightning strike data from PARI will be utilized by an M.S. physics student and Dr. Lin in a research study.
- EES contributed to the effort resulting in the funding of the Department of Homeland Security Center of Excellence for Natural Disasters, Coastal Infrastructure and Emergency Management (CNDCIEM) that is led by UNC-CH. While no funding is being provided to A&T at this time, proposals supported by CNDCIEM are being written by EES faculty to utilize the collaboration established during the proposal process.
- Dr. Kurkalova's collaboration with the economics department at UNCG resulted in the funding of a UNC GA proposal entitled "Economic and environmental impacts of the production and transportation of crop residues as bioenergy feedstocks."
- Dr. Kurkalova and Dr. Rastigeyev initiated a proposal to fund an international student exchange program with emphasis on the economics of biofuels, business, and community development issues, in collaboration with faculty in the A&T School of Agriculture and Environmental Sciences and faculty at the Ukrainian Agricultural Academy, Kyiv, Ukraine.
- Dr. Rastigeyev collaborated on an NSF ERC proposal led by the University of Colorado entitled "Center for Integrated Remote and In situ Sensing Systems."
- An MOU was signed with the National Center for Atmospheric Research (NCAR).

Leadership Studies Program

The Leadership Studies Program is currently engaged in collaborative and partnership agreements. Examples of some of the collaborations and partnerships are listed below:

- Elon University Law School (Leadership Lecture Series)
- Center for Creative Leadership
- Hugh Shelton Leadership Initiative
- North Carolina State University
- International Leadership Association
- Executive Leadership Summit – Hampton University
- CEN Network

Student Activities

Leadership Studies

- Executive Leadership Summit – Hampton Virginia (8) select students
- Paul Baker –Presented dissertation research at the University of Oxford, England..
- Special Question and Answer Session at the Hugh Shelton Leadership Forum.
- Poster Presentation at the 2008 Hugh Shelton Leadership Forum (15 posters).
- Landon Hadley – Dissertation research has been accepted to be presented at North Carolina Central University – Annual Graduate Research Symposium
- Letita Mason – Has been accepted to participate in Global Leadership Training in Prague, Czech Republic. (This is an International Leadership Association sponsored program by invitation only).
- May 2009 Doctoral Candidate Monica Kerr was featured in the Fall/Winter 2008 A&T Today Publication as one of 17 graduate students (from schools such as Harvard, Princeton and Georgetown) selected for an internship with President Ellen Johnson –Sirleaf of Liberia, this past summer. Dr. Kerr worked in the Ministry of Education developing assessment plans for a community college, evaluating the curriculum, and assisting Minister Kotchi with several research projects. She also was afforded the opportunity to work for the University of Liberia where she was offered permanent employment.

Staff Activities in Support of Learning, Discovery, and Engagement

The School of Graduate Studies staff serves on a variety of committees. Committee assignments include the Council of Assistant/Associate Deans, Academy for Teaching and Learning Advisory Board, Ronald E. McNair Advisory Board, Enrollment Management Team, Retention Team, Orientation Committee, Graduate Teaching Assistant Advisory Committee, Commencement Committee, Financial Aid Committee, Banner Steering Committee, and Banner Student Team.

JOINT SCHOOL OF NANOSCIENCE AND NANOENGINEERING

ENGAGEMENT

JSNN's three most significant accomplishments were in the area of Engagement. The JSNN Facility construction project will have a significant economic impact on Greensboro and is ahead of schedule when compared to a typical university laboratory building due to the focus that was brought to the programming activity and the coordination and drive from the Gateway organization. Although the JSNN building will have some laboratories that are similar to labs at NC A&T and UNCG, it will also have several facilities that do not currently exist on either campus such as nanoelectronic and bioelectronic cleanrooms and a biocontainment facility. While the JSNN facility is intended to enable its own nanobio-oriented research agenda, it is also expected to be a resource to enhance the research capabilities of faculty with "nano-oriented" interests at NC A&T and UNCG who will want to access the facilities and equipment.

In addition to the JSNN facility, programs in acquiring the tool set through joint R & D agreements as described above highlights the strengths of the model. Such partnerships with equipment suppliers not only provide needed equipment but create private industry jobs as well as academic jobs. The equipment brought in through joint R & D agreements also enables the infrastructure to have unique capabilities which is expected to aid economic development by attracting entities to North Carolina and enhancing opportunities for collaboration.

JSNN has been successful in publicizing the school particularly with funding agencies. At a DARPA sponsored meeting in October 2008 and at a National Academy of Science meeting sponsored by DOE, JSNN was one of a small number of academic institutions invited to speak. Even though no JSNN laboratories or faculty yet exist, positive steps to build relationships have been taken.

UNIVERSITY STUDIES

ENGAGEMENT

Outreach and Access Activities

Faculty in the division of University Studies engaged in a variety of outreach activities in 2008-09. For example, fall 2008 service learning day engaged over 1,496 students. In summer session 2009, University Studies faculty members are playing

an important role in the summer bridge program, especially as instructors for UNST 100 and UNST 110.

New Collaborations/Partnerships

There were no new collaborations specific to UNST formed in 2008-09. The division is participating in the NSF STC center grant entitled BEACON with the College of Engineering and Michigan State University. The reputation of Dean Graves as an internationally respected scholar in evolutionary biology was central to establishing the partnership with Michigan State. If the grant is funded he will be directing the education activities of the NCATSU site within the consortium. The division is also maintaining its collaborations with Global Modules, Project Kaleidoscope, and the Wabash Study of Liberal Education.

Staff Activities in Support of Learning, Discovery, and Engagement

The ability of the administrative staff of the division to support its learning, discovery, and engagement activities is limited. This limitation results from the fact that the division has been chronically understaffed. The academic year 2008-09, began with 1 permanent and 1 temporary staff member. By spring semester 2009, we added an additional permanent staff member (we were able to hire the temporary staff person.) Yet, this small number of administrative staff supports a faculty that teaches over 21% of the undergraduate SCH. These administrative staff worked tirelessly to support faculty members teaching, and in many cases went above and beyond the call of duty. Examples of this included staying past their scheduled work hours to finish tasks, coming in on weekends to help faculty members prepare examinations, or to staff divisional events.