



North Carolina A & T State University

COLLEGE OF ARTS AND SCIENCES

BIOLOGY

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CHEMISTRY

Dr. Debasish Kuila

Chairperson

ENGLISH

Dr. Elon Kulii

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FOREIGN LANGUAGES

Dr. Jose Bravo de Rueda

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HISTORY

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Dr. Michael A. Plater, Dean

Fall, 2009

Dr. Nita Dewberry, Associate Dean

Dina Eagle, Assistant Dean

Dr. David Aldridge, Associate Dean

CHALLENGING THE POTENTIAL

Activities of Faculty and Students in the College of Arts and Sciences

The following is a report on selected activities of faculty and students in the College of Arts and Sciences:

Biology

Domonique Bulls (Graduate 2009) presented a poster at ABRCMS 2008 in Orlando, Florida "Identifying functional sites common to the GCN5-Related-A-Acetyltransferases (GNAT family) through computational methods," was selected by ISCB's judges as an outstanding computational biology poster presented in the Molecular Biological Sciences area. Received an invitation by the Federation of American Societies for Experimental Biology and MARC (FASEB/MARC) to present her research at the International Society for Computational Biology (ISCB) Annual Conference (www.iscb.org/ismbeccb2009/) in Stockholm, Sweden, on June 29-July 2, 2009. She is currently pursuing a PhD in Cancer Biology and Molecular Medicine at Wake Forest University.

Markece Mathis presented a poster of his thesis research entitled "Pain and Depression in Black Men with Sickle Cell Disease" at the Society of Behavioral Medicine's 30th Annual Meeting and Scientific Poster Sessions Palais des Congres de Montreal in Montreal Quebec Canada (April, 2009). Mr. Mathis has also been invited to present this research at the 2nd Annual Institute of the Caribbean Exploratory NCMHD Research Center, St. John, Virgin Islands (October, 2009)

Dr. Goldie Byrd presented her Alzheimer's Research at the International Conference on Alzheimer's disease in Vienna, Austria. She has also been invited to present her work at the Annual Legislative Conference, sponsored by the Congressional Black Caucus Foundation on Capitol Hill (September 2009), and also at the 2nd Annual Institute of the Caribbean Exploratory NCMHD Research Center Symposium in St. John, Virgin Islands (October 2009). Dr. Byrd received the Presidential Award for Excellence in Science, Biology, Mathematics, an Engineering Mentoring Award from the National Science Foundation.

Dr. Byrd has been invited to provide the initial lecture for the 2009 Joseph Patterson Endowed Lecture Series at Winston Salem State University in October, 2009.

Departmental News

Book Chapter: BYRD G, Edwards C.L. (2009). Role of Historically Black Colleges and Universities in Recruiting and Retaining African American Males in Higher Education. In Henry T. Frierson, James H. Wyche, Willie Pearson, Jr. (Eds.). *Black American Males and Higher Education: Research, Programs and Academe*. Volume 7. Diversity in Higher Education Series. Emerald Publishing

The Department of Biology sponsored its first Graduate Pre-matriculation Program. This two week program was held July 27-August 7, 2009 and was attended by eight of the nine graduate students, who entered the Master of Science in Biology Program in August, 2009. The students were informed of the guidelines and expectations of the School of Graduate Studies and of the Department of Biology. The students attended workshops on searching scientific databases, using EndNotes, writing, time management, how to be an effective teaching assistant, preparing effective PowerPoint presentations, reading scientific journal articles, minority health disparities, and the importance of participation in scientific organizations and attendance of conferences. The purpose of the program is to ease the transition of new students from the undergraduate programs into the graduate program.

Dr. Gregory Goins: Book Chapter G.D. Goins, C.D. White, D.B. Foushee, M.A. Smith, J.J. Whittaker, and G.S. Byrd. 2009. HBCUs model for Success: Successful Models for Effectively Retaining and Graduating Students at North Carolina A&T State University. Thurgood Marshall College Fund. New York, NY. **Online** K. Takayama, M. Pauley, M. Maloney, M. Higa, H. Qin, J. McCray, and G. Goins "A Devil of a Disease"
http://bioquest.org/SCALEIT/2009/workshop_forms/project_template.php?project_id=630

Dr. Ethel Gordon: Publications **Gordon, E. J.**, Kelkar, V., "Natural killer T cell facilitated engraftment of rat skin but not islet xenografts in mice." *Xenotransplantation*, 16: 135 – 144, 2009. Freedman, B. I., Wagenknecht, L.E. Hairston, K. G., Bowden, D. W., Carr, J. J., **Gordon, E. J.**, Xu, J., Langefeld, C. J., and divers, J. "Vitamin D, adiposity and calcified atherosclerotic plaque: African American-Diabetes Heart Study." *J. Clin. Endocrinology & Metab.* Submitted, August 2009. Participated in the American Diabetes Association 68th Scientific Sessions (Annual Meeting) June 2009 in New Orleans, LA

Dr. Mary Smith participated in a 2-week Bioinformatics Workshop at the Supercomputing Center in Pittsburgh, PA, July 11 – 24, 2009. Participated in the Genome Education Partnership Alumni Workshop at Washington University, St Louis, Missouri, August 7 – 8, 2009. Appointed Chairperson of the Department of Biology on July 1, 2009 Attended the MARC Program Director's Meeting in Colorado Springs, Colorado June 10 - 12, 2009.

Dr. Catherine White, May, 26: "Computer Simulations Integrating Molecular Biology Case-Based Learning in Infectious Diseases in a Pre-College Residential Program". Presented at the Symposium on Life Science Education, NCBTC, RTP Received NIH funded supplement to the RIMI grant to sponsor the North Carolina A & T State University Summer Opportunity for Academic and Research Enhancement (NCAT-SOARE) program. June 1, 2009

Dr. Goldie Byrd led the department's 2nd annual pre-matriculation program for 30 entering freshmen.

Dr. Gregory Goins May 29-31: Bioquest/Nimbios Workshop UTennKnox "Numbers Count" SCALE-IT Bioquest Workshop Bioquest/NIMBIOS UTennKnox "Integrating Bioinformatics and Molecular Visualization in the Undergraduate Biology Curriculum" June 22-26, 2009. Invited Talk at the International Society of Mathematical Biology, Vancouver Canada "Forming a Biomathematical Learning Alliance across Traditional Academic Departments" July 27-29, 2009

Dr. Ethel Gordon was one of forty-five teaching faculty selected from across the US to participate in the GCAT DNA Microarray Workshop For Faculty Biology 4 Teaching Undergraduates, July 2009 at Morehouse College, Atlanta, GA. Became a volunteer for the Juvenile Diabetes Research Foundation (JDRF). With the Chancellor's approval (pending), she will initiate a University based committee to organize and to raise funds for the JDRF's Annual Walk to Cure Diabetes.

Mr. John Patterson coordinated a 10 week Summer Research Institute on campus for four (4) undergraduate biology majors, concluded August 2, 2009. Twelve (12) MARC scholars conducted summer research – nine (9) off campus and three (3) on campus. Supplemental Instruction was planned and implementation will begin on September 1 and go through December 8, 2009. General Chemistry 106 & 107; Organic Chemistry 221 & 222; Pre-Calculus and Calculus will have facilitated sessions.

Dr. Mary Smith partnered with the Dolan DNA Learning Center from the Cold Spring Harbor Laboratory, Long Island, NY to host an "Inside Cancer Workshop" for high school teachers on June 21, 2009, and a one week RNAi workshop for college faculty, June 22 – 27, 2009 on the campus of NC A & T. Attended the Summer Academy for Teaching and Learning Summer Teaching Institute facilitated by Dr. Barbara Millis.

Dr. Joseph Whittaker: Director of the Students Hot on the Sciences (SHOTS) program; June 21 – July 31, 2009. SHOTS is a six week residential summer enrichment program funded by the Burroughs Welcome Fund. Twenty high school junior and senior students from high schools throughout North Carolina were sponsored by the Department of Biology.

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The students participated in important enrichment courses such as Genetics, Advanced Mathematics, Advanced Chemistry, Research Ethics and a Research course that allowed students to reinforce concepts, learn new information, and apply that information toward exploring and solving biologically relevant questions through the use of molecular biology techniques. The program culminated with a banquet for students, their families and friends. Two groups of students were acknowledged for their accomplishments in their research and received awards for their oral presentations.

Director of the North Carolina A & T State University Summer Opportunity for Academic and Research Enhancement (NCAT-SOARE) program, June 21 – July 31, 2009. NCAT-SOARE is a two part, six week summer program sponsored by the Department of Biology. The NCAT-SOARE-**HS** component is designed to give high school students the opportunity to participate in hands-on Health Biology 5 Disparity-related research with a faculty member in the Department of Biology. This summer, five high school students from North Carolina participated in research projects including topics such as breast cancer, sexually transmitted diseases, and bioinformatics to examine the study of infectious diseases. The program concluded with a banquet for students, their families and friends. Based on the outcome of an oral presentation contest, one student was chosen to present his work and received an award for outstanding research.

Director of the 2009 Research and Engineering Apprenticeship Program (REAP), June 21-July 31, 2009. The purpose of the REAP program is to provide funds for one high school student to conduct research in the laboratory of a faculty member on the campus of North Carolina A & T State University. This summer, a student from Alamance county conducted research on the Effects of Gravity on the production of Lipooligosaccharide in bacteria.

The Department of Biology's Retention Initiative for Students in Biological Sciences (GSK) and Retention Initiative for Scientific Enhancement (RISE) hosted a pre-sophomore immersion program for 10 students majoring in biology, chemistry and psychology from May 18-29, 2009. The Department of Biology's Retention Initiative for Students in Biological Sciences (GSK) and Retention Initiative for Scientific Enhancement (RISE) hosted 30 incoming freshman majoring in biology, chemistry and psychology from June 21 – July 31, 2009.

Dana Taylor presented programs in the Department of Biology and specifically the summer pre-matriculation program to Graham High School students during a full body assembly on Friday, January 29, 2009

Dana Taylor presented the summer pre-matriculation program to students in the Science and Technology Enrichment Program (STEP) on Friday, July 24, 2009.

Chemistry

Carlos Crawford, a chemistry undergraduate student was awarded an REU summer internship award for NOAA-ISETCSC related project entitled "Emission Enhancement through Dual Donor Sensitization", which was conducted in Dr. Assefa's laboratory.

Mr. Crawford is a co-author of chemistry article published in the prestigious inorganic journal. The paper was also co-authored by a graduate chemistry student, **Nuquie Beedoe**.

The work of Carlos Crawford and Nuquie Beedoe was presented at the ACS national meeting in Washington DC conducted in August, 2009.

Derick Forcha, an undergraduate senior has conducted an independent research (Chem 503) project in Dr. Assefa's laboratory titled "Solvent and pH dependent emission in Ce(III) complexes". The work is under preparation for peer reviewed publication.

Matt Mickens is the recipient of the prestigious *NASA-Harriett G. Jenkins Pre-Doctoral Fellowship* for three years. Matt is a graduate PhD student in the EESP program conducting his thesis project with Dr Assefa.

Dr. Zerihun Assefa, Associate Professor in the Department of Chemistry has authored the following peer reviewed journal article, "*Emission Enhancement through Cooperative Dual Donor Sensitization: Modulation of Structural and Spectroscopic Properties in a Series of Europium Tetracyanoplatinates*" *Inorg. Chem.* **2009**, 48, 6425–35. Coauthors of the paper are graduate student Nuquie Beedoe, and an undergraduate student, Carlos Crawford.

Dr. Z. Assefa gave a seminar titled "Cooperative effect of multi-donor sensitizers in the photochemistry of lanthanide- gold and platinum di- and tetra-cyano-complexes" in the Department of Chemistry Seminar Series on April 9, 2009.

Ms. Chantel Simpson, an undergraduate student in the Department of Chemistry, conducted summer internship under **Dr. Sunyoung Bae's** supervision during summer, which was supported by NOAA-ISET. Her project was entitled "Sorption Capacity of Lead on Soil Mixture according to the Composition of Saharan Dust" She is planning to make a poster presentation at NOAA EPP (Educational Partnership Program), at Howard Univ. in November, 2009.

Dr. Sunyoung Bae, Assistant Professor at the Department of Chemistry has co-authored the following peer reviewed journal articles:

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Liu, J., Shi, B., Jiang, H., **Bae, S.**, and Huang, H. "Improvement of water-stability of clay aggregates admixed with aqueous polymer soil stabilizers" *Catena*, **2009**, 175-179 Choi, S-W., Kim, H-J., Park, S-W., **Bae, S.**, and Inyang, H. I. Patterns of VOC and BTEX Concentrations in Ambient Air around Industrial Sources in Daegu, Korea, *J. Environ. Sci. Health, A*. **2009**, 44, 99-107.

During summer 2009, **Dr. Sunyoung Bae** was a visiting researcher at USDA in Florence, SC. Her project topic was "Hydrothermal carbonization of swine solids and chicken litter".

Dr. Sunyoung Bae participated in WRF-Chem tutorial held in Boulder, CO between July 22nd and 23rd, 2009.

Dr. Bae made a presentation at Yeonse University in South Korea in May, 2009. Her presentation topic was "Meteorological Application: associated with Aerosols and Hydrology".

Jasmine Taylor (undergraduate), and **Atikur Rahman, Mijanur Rahman, and Saiful Islam**, (graduate students) presented a poster (FUEL 314, August 17th) at Sci-Mix (invited) of the ACS National Meeting, Washington, D.C., August, 16-20, 2009. "Novel Nanocatalysts for Hydrogen Production from Biomass".

Dr. Debasish Kuila, Professor of Chemistry, visited Indian Institute of Technology, Kharagpur and presented a seminar on Mesoporous Silica Encapsulated Nanocatalysts for Hydrogen Production.; July 10, 2009.

Dr. Y. V. Basova, research associate/adjunct professor presented a paper (CATL-50) at the ACS National Meeting, Washington, D.C., August, 16-20, 2009. "Novel Bifunctional Nanocatalysts for Aqueous-Phase Reforming"

Dr. D. Kuila was invited to speak at the ACS National Meeting (FUEL 314, August 20th), Washington, D.C., August, 16-20, 2009. "Novel Nanocatalysts for Hydrogen Production from Biomass"

North Carolina A & T State University, Department of Chemistry hosted eighteen high school students and one high school senior as a teacher for the Science and Technology Enrichment Program (STEP) from June 17 through July 24, 2009. The Students selected for this program were: Jawahn Alexandre – James B. Dudley HS, Harrison Brown – Western Guilford HS, Indya Brown – Western Guilford HS, Lorraine Eubanks – James B. Dudley HS, Madison Gibbs – James B. Dudley HS, Kevin Littlejohn – James B. Dudley HS, Shawn Waddell – James B. Dudley HS

LaQuenta Bartley – James B. Dudley HS , Jessica Burnett – James B. Dudley HS, Naijla Faizi – T.W. Andrews HS, Joscelyne Mason – James B. Dudley HS, Britney McCollum – Ben L. Smith HS, Whitney McCollum – Ben L. Smith HS, Rayvon Moore – James B. Dudley HS, Akshit Patel – Ben L. Smith HS, Judy Sisouyong – Ben L. Smith HS, Richard Sosa – James B. Dudley HS, Brittney Williams – James B. Dudley HS

Students received a sizeable stipend and certificate of participation after the successful completion of the program. Naijla Faizi and Akshit Patel were chosen as the 2009 **STEP Scholars**. They will receive a stipend of \$2000, complete a research project at NC A&T, and present their research findings in a regional and/or national scientific meeting in spring 2010. Other awards given were:

Best oral presentation: Britney and Whitney Mc Collum

Best written research report: Judy Sisouvang and Joscelyne Mason

Best poster: Naijla Faizi and Kevin Littlejohn

S.T.E.P. gave participants an intensive six-week "minds-on" and "hands-on" experience in a variety of science based subjects that include Analytical, Organic, Biochemistry, Biotechnology and Mathematics, said Dr. Jothi Kumar, Program Director. The program also includes year-round services such as monthly tutorials, mentoring, opportunities to participate in science related research seminars, Chemistry Undergraduate Research Expo (**CURE**) planned for the National Chemistry week, and NCAT Annual Life Sciences Symposium. NC A&T faculty involved in STEP was: **Dr. Jothi Kumar** (Analytical Chemistry), **Dr. Marion Franks** (Organic Chemistry) and **Dr. Margaret Kanipes** (Biochemistry). **Ms. Alexandria Faza**, an adjunct instructor from A&T and **Ms. Jessica Diggs**, a rising senior and an alumnus of 2008 STEP from Dudley high school served as lab instructors.

The STEP program is funded through a grant from the Burroughs-Welcome Fund's Student Science Enrichment Program (SSEP) and additional funding from Greensboro Area Health Education Centers (AHEC) Program.

English

Technical writing students in Dr. Jane Brown's English 415, (The Practicum) held the following internships: Jeri Hardaway at the North Carolina Education Lottery; Allen Anderson at Duke Energy in Charlotte, NC; Jessica Johnson at Quantum Management in Bethesda, Maryland; Joshua Harris at Cone Elementary School as an After School Care Enrichment Services (ACES) Peer Leader; Anwar J. Armstrong in NC A&T State University's Writing Center; Darrick Pettiford in Professional Ink with the client, Iota Beta Colony of Phi Mu Alpha Sinfonia of America; Cedric Moore under the direction of Mrs. V. Marsh editing the Doctoral Dissertation in The School of Education, NC A&T State University entitled, "Evaluation of Lateral Entry Program; and Sandra Bratcher edited the Senior Class Newsletter at NC A&T State University.

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Dr. Sam Garren introduced and led the discussion of the topic entitled "The Feminine within Us" for the meeting of the Men's Council of the Triad on August 11, 2009. The Men's Council of the Triad meets at the New Garden Friends School in Greensboro, NC.

Valerie Nieman compiled English Department annual report 2008-2009, edited SACS accreditation document, taught fiction class at John C. Campbell Folk School.

Nieman was confirmed as weekend session faculty for continuing education program in creative writing at Central Carolina Community College, spring 2010.

Poem "The Leopard Lady Speaks" was a finalist in the 2009 Guy Owen Poetry Prize competition, a national event sponsored by the *Southern Poetry Review*. It will be published in an upcoming issue of the journal

Nieman's biography was selected for the 2010 edition of Marquis' *Who's Who in the World*.

Nieman completed American Sailing Association certifications 101 and 103, Basic Keelboat and Coastal Cruising, at Cape Fear Sailing Academy, Southport, NC.

Nieman judged the Guilford County High School Poet Laureate competition, attended Grimsley High School poet laureate celebration and made presentations, attended poet laureate reading at the Greensboro Public Library.

Nieman taught fiction class at North Carolina Writers Network Spring Conference. Served as nonfiction judge for West Virginia Writers annual competition. Served as chairman for the Lake Townsend Yacht Club's annual Mayor's Cup Regatta

Gian Carlo Spells is taking part in Semester at Sea program. **Dexter Mullins** has been named editor for **The Register**

Zachary Ingle 2008 MA. Zach just published an article that emerged from a class he took (Dr. Kamara's) at A & T "'White Fear' and the Studio System: A Re-evaluation of Hansberry's Original Screenplay of *A Raisin in the Sun*." *Film and Literature Quarterly*.

Anjan Basu, Mia Garrison (graduated this month with MA), **Brittany Nagel**, and **Tiffany Overby**. These four students submitted a panel of their papers to the South Atlantic Modern Language Association (SAMLA) for its conference in November. The panel, "Violence and Identity in Postcolonial Literature," was accepted for presentation.

English Panel II, SAMLA 2009. Chair, "Violence and Identity in Postcolonial Literature," SAMLA 2009.

Dr. Michele Levy proofed the galleys of three publications: two for the Encyclopedia of Literary Biographics: Eastern Europe, one for my contribution to a special volume of *Nationality Papers--*, *Crimes of State: Government-Sponsored Atrocities and International Legal Responses, Past and Present*. (July-August)

Review of "*Dream Homes: From Cairo to Katrina*" (Joyce Zonana), for *World Literature Today* (July)

Dr. Levy served on the Harper Fellowship Fund of SAMLA (Chair, Trudier Harris), which read thirty graduate student applications for travel funds and selected the five winners. (July-August)

Dr. Levy attended the quarterly board meeting, Stoney Creek NCSECU Credit Union.

Foreign Languages

Sarah M. Carrig attended the Study Abroad Fair on April 1, 2009.

Carrig also participated in the April 20 community planning session, held at New Light Missionary Baptist Church, to protest Guilford County's proposed implementation of federal policy 287(g), which promotes racial profiling and deportation of Hispanic immigrants.

Carrig held a student meeting on April 28 to plan for greater department visibility and student participation.

Carrig Invited Dr. Maria Palmer to talk with Foreign Languages Dept. on Aug. 24 about opportunities for collaboration with the Multicultural Student Center.

Carrig arranged for Ms. Allegra Johnson of the Office of International Programs to visit FOLA classes in the first weeks of September, to promote study abroad among A&T students.

Carrig corresponded with Mr. Carl Baker of the Student Union, to discuss funding possibilities for Spring Break travel with SPAN 456 class to Washington, D.C.

Carrig contacted members of new Committee to Promote Foreign Languages at A&T, to hold first meeting on Sept. 2.

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Carrig made official the inclusion of SPAN 456: "Americanos: Latino Culture and Politics in the U.S." in the Liberal Studies program.

Carrig stood in for Dr. Bravo as the advisor of Sigma Delta Pi, at the first meeting of Student Organizations at A&T, on Aug. 25.

Carrig agreed to become the advisor of the new Spanish Club.

French and Spanish clubs will begin meeting the third week of September.

Dr. Jose Bravo de Rueda will be a speaker in the panel "US-Latin American and Caribbean Relations: Crisis or Opportunity?" The conference will take place October 15, at 7pm, in the Bryan Jr. Auditorium, at Guilford College.

Dr. Donna McGiboney presented the lecture "A modern novel of the Post Civil War Period in Spain" as a guest speaker in Dr. Edith Archibald's SPAN 502 Foreign Languages Seminar On Tuesday, September 15th.

Dr. McGiboney accompanied Dr. Maria Palmer, director of A&T's Multicultural Center, and her group of students on a Multicultural Center-sponsored visit to a local Hispanic migrant worker's camp on Sunday, September 20

Dr. McGiboney, as a new member of the College Colloquium Committee, attended their meeting and will be giving brief closing remarks to January's panel discussion on Thursday, September 2.

Journalism & Mass Communication

Dr. Alozie, E.C. (2009). *Marketing in developing countries: Nigerian advertising in a global and technological economy*. New York: Routledge. Available at <http://www.routledgeeconomics.com/>

Dr. Alozie, E.C. (2009, August). "Pictures in Our Heads": Symbols as representations of cultural meaning in Nigerian mass media advertising. Presentation at the Association for Education in Journalism and Mass Communication Annual Conference, Boston, Massachusetts.

Dr. Alozie, E.C. (2009, August). Electronic financial fraud in the era of information & global economy: A structural analysis of advance fee solicitation through email. Accepted for presentation at the 2009 Conference of African Council for Communication Education (ACCE), Accra, Ghana. With C. Pratt.

Emily Harris led the workshops Training workshop writing features and reviews, Aug. 28, 2-4 p.m and Thinking visually on Aug. 28, 3-4, Aggie101 Freshman Welcome Guide on Aug. 15, 2009.

Harris attended summer SUN (Southern University Newspapers) managers meeting on June 2009 at Duke University.

Harris was elected secretary of SUN.

Dr. Vanessa G. Cunningham-Engram and the JOMC team lead for Freshman Orientation this summer for all new students entering fall 2009, Administered Grammar Proficiency Exam (with Prof. Wiggins) for new students entering fall 2009, Accreditation Committee and Sub-Committee Meetings (spring 2009), Created and conducted a faculty advising survey for student assessment of faculty (collaborated with Prof. Wiggins); analyzed and reported findings (spring 2009); designed and published the JOMC Academic Strategies for Student Success advising pamphlet (collaborated with Prof. Wiggins on content) (spring 2009).

Dr. Cunningham-Engram served on the following committees: CAS QEP Marketing Committee (fall 2009), High School Media Planning Committee (fall 2009), Advised all print journalism, public relations and media management freshman (fall 2009)

An adaptation of **Dr. Cunningham-Engram's** book, **Lifted!** was selected for a stage performance at Actors Theater of Louisville – one of Louisville's premiere attractions (Victor Jory Theater) on Saturday, June 20, 2009 at 5:00 p.m. "**Lifted**" - stage play by Charlene Spalding. "**Lifted**" was selected to be performed under the theme: Images of Women. http://www.juneteenthlegacytheatre.com/Jamboree_2009.html - Admission: \$10. *In Lifted, Vonette, a young struggling woman, seeks guidance from Pastor Johnson, but over time has doubts about some of his counseling. Can Vonette reconcile her doubts and her faith?*

Juneteenth Legacy Theatre (JLT), Kentucky's only professional African American theatre company, produces only new plays about the African-American experience in historical and contemporary contexts.

Dr. Cunningham-Engram was invited to present a paper at the Second Annual Conference in Innovation and Communications Law, Louisville, Kentucky (August 21-22, 2009), titled "Sexual Content and Social Media: Issues and Limitations"

Chapter titled "Pretrial Publicity in High Profile Cases" to be published in new *Forensic Communication: Application of Communication Science to Courtroom Litigation* textbook. Hampton Press (anticipated 2010).

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Chapter titled "Regulation of Advertising in Developing Countries" to be published in *Advertising in Developing and Emerging Countries: The Economic, Political and Social Context* textbook. Gower Publishing (anticipated July 2010).

Paper to be submitted (September 2009) for publication (work in progress) Article titled "Sexual Content and Social Media: Issues, Limitations and Implications of Sexting" *University of Louisville Law Review*.

Dr. Cunningham-Engram did the following: After IRB for approval, conducted surveys, gathered research and wrote a book chapter to be published in the forthcoming reader *Interracial Communication: Contexts, Communities, and Choices* by Kendall/Hunt (2009). Title: "Change in the Oval Office: The Impact of Race on First-time African American Voters."

Dr. Cunningham-Engram was the guest lecturer for "Protection of Sexual Expression" at High Point University.

Dr. Linda Callahan ascended to the position of chair of the Commission on the Status of Minorities at the Association for Education in Journalism & Mass Communication Conference. Its 92nd Annual Convention was held in Boston, Aug. 5-9. Callahan also ascended to the position of chair of the Commission on the Status of Minorities while at the convention. The Commission on the Status of Minorities is one of two association-wide commissions. CSM serves an advocacy role on behalf of its minority members, students, and media professionals. Additionally, while at the convention, Callahan served as a discussant and a moderator of sessions. She was discussant of a session entitled, "Popular Culture, Resistance, and History: Representing Religion in Cultural Texts." She moderated a session entitled, "Diversity in Journalism Education: Is it Making a Difference in Real World Media Settings."

History

Dr. Conchita Ndege reviewed the book 'Africa in World History' by Gilbert and Reynolds.

Dr. Ndege did volunteer work-with World Villages (Ten Thousand Villages)- Fair Trade crafts store- Winston-Salem and worldwide (Catalog inventory, etc)

Physics

Dr. Abdellah Ahmidouch submitted a proposal entitled "Enhancing the Introductory Physics Course Delivery at North Carolina A&T State University" to NSF, coPI I. Kim, total amount \$198,956.

Dr. Ahmidouch worked on the quartz detector needed for the 12 GeV detector upgrade in JLab Hall C. The detectors are part of the trigger system for the SuperHMS spectrometer. Worked on the final design of the counters, simulation of their performance, and selection of material vendors. Jefferson Lab Hall-C SANE experiment. The experiment is dedicated to study the spin structure of the proton. The experiment is in the data analysis phase.

Dr. Ahmidouch published "Applications of quark-hadron duality in F2 structure function", S.P. Malace, et al., Submitted for publication in *Phys. Rev. C*.

Dr. Ahmidouch advised **Martin Jones**, (graduate student_ who worked on the SANE experiment, and defended his MS-thesis entitled "The Lucite-Cerenkov Detector For SANE Experiment At Hall-C Jefferson Lab", on June 19, 2009. **Brandon Davis**: Graduate student: Works on the analysis of the JLab-HallC SANE experiment data. **Verida Leandre** worked on the quartz detector project.

Dr. Ahmidouch gave a talk entitled: "The Quartz Detector", at the JLab-Hall-C 12 GeV review meeting, June 24, 2009.

Submitted material to be presented at the Hall C Detector Design and Safety Review, Aug. 5, 2009.

Dr. Ahmidouch attended the *American Physical Society APS Meeting in Denver, May 2-5, 2009*. **Dr. Ahmidouch** organized and chaired the JLab-Hall C Summer Workshop, August 6-7, Newport News, VA. He also participated in the College of Arts and Sciences Chair Retreat, NC A&T, August 11, 2009. **Dr. Ahmidouch** had a day-long meeting with an NRC team to discuss funding opportunities, July 29, 2009.

Dr. Ahmidouch chaired the Hall-C Steering committee in charge of organizing the JLab Hall-C Summer workshop. Aug. 6 -7, 2009. **Dr. Ahmidouch** chaired a session "**12 GeV Physics & Instrumentation**" at the JLab Hall-C Summer workshop. Aug. 6-7, 2009.

Dr. Ahmidouch organized all orientation sessions for new Physics and ASME freshmen. **Dr. Ahmidouch** was a Jury member for the MS thesis of Subhash entitled: "Investigation of Beam Position Reconstruction Methods for the PrimEx Experiment at Jefferson Lab" on June 19, 2009.

Departmental News

The National Science Foundation International Research Experience for Students (NSF-IRES) provided funding for NCA&T to provide International Research Experience in Atmospheric Sciences and Geosciences in Ethiopia in 2007. In the last three years nine NCA&T undergraduate and graduate students traveled to Ethiopia for about a month and worked with Ethiopian professors and graduate students at Addis Ababa University.

In the summer of 2009 the following students had this opportunity and were escorted by **Bililign: Anthony Cochran, PhD** student in the Energy and Environmental Systems program currently working under the direction of **Dr. Bililign** in an Atmospheric Chemistry Research worked with Prof. Mulugeta Bekle of AAU, a theorist to develop theoretical models to explain the kinetics of carboxylic acids in the atmosphere. A graduate Student from AAU will be working on this project in collaboration with Anthony.

Patrick McCarter just completed his Undergraduate in Physics and is admitted to the Computational Sciences and Engineering program. He was involved in geophysics, seismology and applied geophysics research under the direction of **Dr. Shimeles Kebede**. The picture shows Patrick in a field in North Western Ethiopia. The title of his project was "Vertical Electrical Sounding (VES) survey for groundwater at the future site of Gypsum processing plant, Muke-Turi Henok Shiferaw also completed his undergraduate in Technology and is admitted to the Computational Sciences and Engineering Program, and participated in atmospheric Chemistry experimental work using FTIR (Fourier Transformation Infrared Spectroscopy) under the direction of Dr. Gizaw Mengistu. Title of his project was "Line shape parameters determined from measurement of HBr absorption using FTIR Spectrometer" In addition to the scientific interaction the students had opportunity to visit historical sites and museums and places of interest, and were taking part in social activities and get together at some of the homes of the professors. **Bililign** was also appointed as an Adjunct Professor at AAU and offered a graduate course in Laser Physics with special applications to spectroscopic techniques. About 10 AAU Physics PhD students took the course. This course was a three weeks course with three hour lectures daily.

South Africa: AfricaArray Geophysics Field course. This is part of the NSF funded Partnership for International Research and Education (PIRE) program with Penn State as lead institution with NCA&T as subcontractor and University of Wits in South Africa, Johannesburg as an international partner. The students were selected from NCA&T and two other HBCU's and the group includes Mr. Abraha, a Science Teacher at Smith High in Greensboro. The students spent three weeks in South Africa. During the first week, they worked at Wits, putting together a plan for their fieldwork and receiving introductory material on the methods they would be using.

During the second week, we were in Driekop (Limpopo Province), and the students got experience taking measurements with several different geophysical techniques: refraction seismology, electrical resistivity, magnetics, gravity, ground-penetrating radar, and electromagnetics. Finally, the final week was spent back at Wits, where the students worked on processing the collected data and writing reports. Building Construction proposal to NIST, to build an Earth System Science Research Center Building; Requested amount: \$15 Million.



EARTH SYSTEM SCIENCE RESEARCH CENTER PROJECT SUMMARY—The proposed 33,500 square-foot Earth System Science Research Center (ESSRC) at North Carolina A&T State University (NCAT) will be a state-of-the-art building that supports economic development and technology transfer from earth system science related research addressing climate and environmental change and the related social and economic implications. Research at the ESSRC will support the mission of NOAA and the research goals of NCAT in earth system data collection, analysis, and modeling. The new facility will also advance the NIST mission in reducing human and economic loss due to natural hazards and chemical detection and measurements to improve public health, safety, and environmental quality. ESSRC research activities will be focused on expanding the science knowledge base to meet the challenges of climate and environmental change in areas such as the effects of aerosols on radiative forcing; spectroscopic measurement of atmospheric trace gases; measurement of chemical parameters that will aid in improving climate models; development of portable and miniaturized chemical sensors to detect pollutants and toxic gases; development of information technology tools for data mining, fusion, and modeling of global and regional weather and climate; and creating and managing sensor grids including seismic sensors. The ESSRC research involves faculty and students from ten disciplines ranging from the physical sciences to engineering to social sciences. With a growing need to understand global warming and climate change and with the strong emphasis on earth sciences at NCAT.

Departmental News

There is an opportunity for the establishment of an ESSRC that will serve as a regional Center of Excellence and position NCAT as a leader in climate change research that is translated to products that enhance economic competitiveness. The building will be the first one on the NCAT campus to utilize solar heated water and to have a photo voltaic demonstration/education unit. Detailed engineering drawings for the \$15 million, 2.5-story facility will be prepared from the preliminary drawings presented herein as soon as NIST funding is provided. Start of the construction project will be April 2010 with expected completion during the summer of 2013.

Dr. Solomon Bililign organized the 4th Earth System Science for Educators workshop June 22-26. 50 high school teachers attended the workshop. The workshop courses were offered by educators from the Incorporated Research Institutions for Seismology (IRIS) and NOAA National Climatic Data Center (NCDC). Supplemental funding from NSF of \$25,000 was obtained to increase the number of participants.

Dr. Bililign worked on progress with the School of Education to respond to the NASA Solicitation NASA K-12 Cooperative Agreement.

Dr. Bililign recruited 13 students for the Atmospheric Sciences and Meteorology program and he also recruited three graduate students.

Dr. Bililign's research in the lab continued vigorously over the summer. Israel Begashaw has very exciting new results in OH overtone dissociation students. Abstract is submitted to AGU. Post doc Marc Fiddler was responsible for the Mass spec lab and training a high school teacher supported via a supplement from NSF and Kenan fellows program. A PhD student **Mike Collingswood** was being trained this summer by Israel Begashaw. **Galen Smith** is an EES- PhD student co advised by **Bililign** and **Ahmed** (CUNY) and spent the summer at CUNY. **Anthony Cochran**, EES PhD student working under Bililign was in Ethiopia this summer. Undergraduate **Chris Ware** spent the summer at NOAA-ESRL in Boulder working with Bililign's collaborator. The group has also been working on an invited review article in response to the Invitation to Contribute - Special Issue: Laser Spectroscopy and Sensing due September 30.

Dr. Samuel Danagoulian conducted Student research advising: Light Monitoring System prototyping for High Threshold Cherenkov Counter, a detector, which is included in the Jefferson Laboratory Hall B CLAS detector 12 GeV upgrade package. We perform test of stability as a function of different parameters such as temperature, voltage. Undergraduate student **Antoin Johns** was involved in the project.

and installed in the detector package, BETA, of the 4 above mentioned experiments, at Jefferson Laboratory. The hodoscope was operational during the experimental run. Data is accumulated during the experiment in November 2008 – March 2009. Data analysis of the experiment is underway. Two physics graduate and three undergraduate students were involved and trained during the construction, installation and operation of the detector.

JLAB 12 GeV upgrade: (1) Hall C SHMS quartz hodoscope construction, (2) Construction of the Light Monitoring System for Hall B CLAS 12 HTCC detector

Prototype Light Monitoring System has been tested. The results of the test have been reported in the NSF annual report and written down in the Collaborative MRI grant proposal which was to be submitted in August 2009, but was postponed until December 2009. A graduate and one undergraduate student is involved in this task.

A grant proposal for MRI at NSF has been prepared, but not submitted. A new grant proposal for NSF International Research Experience for Students with Republic of Armenia has been initiated, the negotiations with four institutions in Yerevan Armenia has been successfully conducted. The proposal is in preparation.

Dr. Samuel Danagoulian presented a talk "SANE: Spin Asymmetries on the Nucleon Experiment (JLAB Experiment E-07-003)" in the International Workshop on Transverse Partonic Structure of Hadrons (TPSH, Yerevan, Armenia, June 21-26 2009). The proceedings are in preparation.

Applications of quark-hadron duality in F2 structure function" (... S. Danagoulian et al.). JLAB-PHY-08-893, Dec 2008. 5pp. Submitted to Phys. Rev. C

Dr. Danagoulian served as a Grade Appeal Chair.

Dr. Kenneth Flurchick presented at the DoD MSI CSE-HPC Faculty Training Workshop, taught Linux, Parallel Computers and MPI programming (2 days).

Dr. Flurchick researched an article for 16th APS Topical Conference on Shock Compression of Condensed Matter to appear in the Bulletin.

Dr. Flurchick also researched THE USE OF THE GRIMME DFT POTENTIAL FOR DESCRIPTION OF VAN DER WAALS BONDED MOLECULAR CRYSTALS in preparation.

MRI proposal now recommended (moved from pending)
\$384,000.00

Departmental News

Waightstill Avery was a student funded by the NSF-ERC, worked on visualization code and assisting in the Visualization Lab.

Dr. Flurchick supervised 2 other students in the Visualization Lab, configuring student computers, file servers, and developing web pages.

A new proposal was funded by NSF: "Study of the Fundamental Symmetry Breaking Effects via the Precision Experiments at JLab", Proposal # PHY-0855543 (PI: Dr. A. Gasparian, co-PI: Dr. R. Pedroni), funded for the 2009-12, the total amount: \$480,000.

Dr. Ashot Gasparian: I have done my research work for this summer at Jefferson Laboratory (JLab), located at Newport News, VA. For this period of time our group, together with the PrimEx collaboration, focused on finalizing the experimental results from the first run (the PrimEx-I) and organizing their timely publications and presentations in the upcoming workshops and conferences. I closely worked with our group (P. Ambrozewicz, post doctoral research associate; I. Larin, visitor from ITEP, Moscow, Russia; D. Romanov, graduate student from MIPhI, Moscow, Russia; S. Khanal, our graduate student; J. Allen, our undergraduate student) to finish up all ongoing analysis works and cross checking the results from the other collaborating groups. This work included: (a) preparation of the final result for the pion decay rate extraction to be discussed in the collaboration meeting (done with I. Larin); (b) independent extraction of the Compton cross section to verify the quoted systematic errors in the pion result (done with I. Larin); (c) independent extraction of the e^+e^- pair production cross sections to verify the previous results from other groups and prepare for the publication (done with P. Ambrozewicz); (d) worked with **S. Khanal** on his thesis dissertation and preparation of his presentation; (e) worked with undergraduate student, **J. Allen** and directed her summer research training in the group; (f) worked on preparation of my talks to be presented at the seminars and international workshops.

"Incoherent Photoproduction of Pseudoscalar Mesons off Nuclei at Forward Angles", S. Gevorkyan, **A. Gasparian**, L. Gan, I. Larin, M. Khandaker Published in hep-ph #0908.1297, submitted to Phys. Rev. C., July, 2009

Subhash Khanal, (second year graduate student), In May and June of this summer **Subhash** was working on his master thesis dissertation and preparation of his talk before the Thesis Committee. We worked regularly on editing his text and on his power point presentation. **Subhash** successfully defended his Master Degree thesis project: "Investigation of Beam Position Reconstruction Methods for the PrimEx Experiment at Jefferson Lab" on June 19, 2009.

Juleia Allen, summer two months research training with our group at JLab. Her training included: getting familiar with the newly developed PrimAna program codes; study the basic principles of experimental nuclear physics with the detection techniques and statistical analysis methods; initial introduction on the nuclear medicine with the JLab's Detector group. We organized a visit to newly opened Proton Therapy Institute at Hampton University in July 2009.

Pawel Ambrozewicz. At this stage Pawel is in charge of analyzing the experimental data set from the PrimEx-I run and preparation of the publications. In particular, during this summer he was responsible for the independent extraction of the e^+e^- pair production cross section. Other than our working meetings, we met regularly during the Wednesday's group meetings and discussed the progress in the data analysis work and physical results. Pawel worked actively with all graduate and undergraduate students in the group helping them with all program related questions.

Dr. Gasparian was invited to talk at Yerevan Physics Institute (YerPhI), "Neutral Pion Lifetime: Final Results from the PrimEx Experiment", Yerevan, Armenia, July 3, 2009 He was also invited to talk at International Workshop on "Transverse Partonic Structure of Hadrons", June 21-26, 2009, "Transition Form Factors of Pseudoscalar Mesons at Low Momentum Transfer", Yerevan, Armenia, June 23, 2009.

Dr. Gapsparian spoke at a Talk/Seminar in Hall B meeting, "Final Results from the PrimEx-I Run", JLab, Newport News, VA, June 1, 2009.

Dr. Gasparian attended the following meetings International Workshop on "Transverse Partonic Structure of Hadrons", June 21-26, 2009, Yerevan Armenia. Several meetings at Yerevan Physics Institute to discuss the future collaborative research work in Hall D at Jefferson Lab, June 29 – July 3, 2009, Yerevan, Armenia. Sixth International Workshop on "Chiral Dynamics – 2009", July 6 -10, 2009, Bern, Switzerland, meeting at CERN to discuss possible new collaborations and new projects, July 10, 2009, Genève, Switzerland and PrimEx Collaboration meeting, June 2 -3, 2009, Jefferson Lab, Newport News, VA.

Dr. Gasparian: I have organized and hosted the semi-annual PrimEx Collaboration meeting at JLab on June 2nd and 3rd, 2009. The meeting focused on reviewing the extracted physical results and concluding the final result to be reported at the upcoming conferences and workshops.

During this summer period, I have focused on the scientific research with the group and quality research training of the graduate and undergraduate students. I think this is one of the best ways to attract new talented students and post docs to our Department. With that in mind, I think I have done some work on the outreach and recruitment part during this summer.

Departmental News

Dr. Floyd James returned to Lawrence Berkeley Laboratory as a member of the Berkeley Laboratory University Faculty Fellowship (BLUFF) program. This program was created by LBNL for faculty alumni of the Faculty and Student Teams (FaST) program. Worked again with Dr. Stephen Derenzo, Dr. Edith Bourret-Courchesne et al. in the Center for Functional Imaging of the Life Sciences Division of Lawrence Berkeley Laboratory. One of the goals of this group is to find better, faster, cheaper scintillator materials for radiation detection. Work this summer focused on building and using a dual scanning excitation-emission system to fully characterize the optical excitations for scintillator candidates.

Dr. Ilki Kim taught the following courses: Summer Session I: PHYS225-030 College Physics I, Summer Session II: PHYS226-050 College Physics II. **Dr. Kim** innovative teaching techniques are Blackboard and WebAssign. Also distribution of an exact solution set for each homework and each test, for consistent self-study of students. **Dr. Kim** submitted: As a co-PI, the NSF proposal 0942286 entitled "Enhancing the Introductory Physics Course Delivery at North Carolina A&T State University" **Dr. Kim** conducted research in the field of Quantum Thermodynamics, Stochastic Resonance, Quantum Brownian Motion. Summer Workshop in Biophysics in Knoxville, TN, August 3-5, 2009

Dr. Yuh-Lang Lin submitted the following proposals: **Billign, S., Y.-L., Lin, and S. Bae:** The Anthropocene Science Center. NSF, \$1,660,807 (NCAT portion), 6/1/2010 – 5/31/2015, pending. (An NSF STC led by Penn State) **Billign, S., Y.-L. Lin, K. Schimmel, G. Tang,** 2009: Cooperative Institute for Satellite Climate Studies (CISCS), NOAA, Lead institute: Georgia Tech. A&T Team leaders: Billign (Institute Associate Director) and **Lin** (Thrust Area lead PI), \$3,749,174 (NCAT portion; total center budget: \$93M), 6/1/09 – 5/31/14, rejected. **Lin, Y.-L. G. Tang, J. P. Roop** and **L. Liu,** Formation and Evolution of African Easterly Waves and Mesoscale Convective Systems and their Impacts on Tropical Cyclogenesis in Eastern Atlantic and Eastern Pacific, NSF, 10/1/09-9/30/13, \$690,869, rejected. **Lin, Y.-L.,** 2009: Dynamics of heavy rain over Central Mountain Range of Taiwan, NSF, 9/1/09 – 8/31/12, \$278,794, pending. **Lin, Y.-L., G. Tang, J. P. Roop, Y. Rastigejev,** and **L. Liu:** Improving Battlefield Weather Forecasts in Complex Terrain through Improved Numerical Modeling, Understanding and Applications, ARL, 10/1/09 – 9/30/12, \$500K – 1M/year, pending. (No NOI has been submitted to NCAT yet since the grant amount is not decided yet) **Kelkar, A., R. Mohan, G. Goins, V. Keljar, M. Kanipes, K. Schimmel, K. Roberts, M. X. Chen, and Y.-L. Lin,** 2009: Integrating NASA Science, Technology and Research in Undergraduate Curriculum and Training (INSTRUCT). NASA, 1/1/10 – 12/31/10, \$347,600, funded. (But was informed by Dr. Keith Schimmel that by some reason my name was removed when it is funded. Dr. Schimmel said that my name will be added on in Spring 2010's expanded proposal.

For details, please contact **Dr. Schimmel.**) NASA Climate Education (**Schimmel, Lin**), NOI, 6/29/09 (Global Climate Change Science Research Experiences for Undergraduate and Community College Students and In-Service Teachers), rejected. NOAA Climate Program (**Lin, Tang, Roop, Liu**), NOI, 6/12/09; rejected 7/7/09 NSF Engineering Research Center "Integrated Sensing in Extreme Environments (ISEE), preproposal submitted on 7/15/09. Lead institution: U. Colorado at Boulder. **Lin** leads the A&T team (**Tang, Beai, Lou, Rastigejev, Roop**) to participate in hurricane and fire weather modeling. 10/1/2010 – 9/30/2015, \$1,251,783 (NCAT portion), pending.

1. Interdisciplinary Scientific Environmental Technology Cooperative Science Center (ISET-CSC) (P.I.: **S. Billign**), NOAA, 9/1/06 – 8/31/11, \$12,500,000, served as the Senior Scientist and a Campus PI.

Dr. Lin participated in the following research activities: International collaborations: Prof. C.-S. Chen at the National Central University on heavy orographic rainfall associated with Mei-Yu fronts. Prof. Huang-Hsiung Hsu at the National Taiwan University on orographic effects on MJO. Prof. Hsing-Chi Lai at Chang-Rong University on typhoon-induced rainfall. External reviewer for PhD student (**Tatiana Andry Arivelo**) dissertation: "Madagascar rainfall studies: Climatology – Connectivity of Madagascar rainfall modes of variability - Extreme value analysis–Dynamics of Southern region rainfall". Physics Department, Addis Ababa University. Curriculum evaluation for the PhD Program in the Department of Atmospheric and Oceanic Sciences, Institute of Geophysics Space Sciences & Astronomy. Off-campus collaborations: (1) Dr. Tsann Yu at NCAS/Howard University on AEW. (2) Dr. Greg Jenkins at Howard University (2 proposals pending) (3) Dr. Heping Liu at Jackson State University on regional climate modeling (4) Dr. Arlene Laing at NCAR on AEW research (5) Dr. Bill Kuo at NCAR on COSMIC and orographic rain in Puerto Rico (6) Dr. C.-S. Chen at National Central University, Taiwan, on orographic rain (7) Dr. Wen-Yih Sun at Purdue University on "battle field meteorology modeling" Conducted NCAT modeling group meetings weekly in Summer 2009 4/23/09: Review Wu et al. paper for MWR (Editor: Liz Ritchie 4/29/09: Hosted a NOAA ISET Center seminar speaker, Dr. Arlene Laing from NCAR. 4/29/09: Attended Dr. Arlene Laing's seminar 4/29/09: Meet with Drs. David B. Reusch and Dr. Angela Marie Reusch, potential research scientist and research associate respectively. 5/1/09: Joined the group meeting of **Dr. Tang** and his two students, **James** and **Wilson**. 5/8/09: Submitted a paper, "Climate and Water Resources: A challenge to integrated science/social policy formulation", by **S. Billign, Y.-L. Lin, L. Kurkalova, Y. Rastigejev, K. Schimmel, S. Bae, R. Davis, S. Ilia, Y. Kyei, and G. Uzochukwu.** Convergence Review, Issue 2, 2009, N. C. A&T State University, 11pp. 5/10/09: Started to work on an ARL project with an ARL scientist, Dr. Pat Hains. May 11/09: Developed ARL-PIRT proposal with Dr. Patrick Haines. Formed a team, including **Drs. Tang, Roop, Yevgenii, and Liu,** to write a proposal. 5/11/09: Submitted Chen et al. paper to Atmos. Research for publication. 5/12/09: Meet with **Ms. Mariela S. de la Cruz,** a potential PhD student in EES. 5/18/09: Submit a grant proposal with Kelkar et al. to NASA MSPCG Program. 5/26/09: Reviewed Wu et al. paper for MWR.

Departmental News

6/4/09: ISET Atmospheric Group Meeting (**Lin, Tang, Rastigejev, Bae, Kyei, Roop, Liu, Jong; James, Katif, Van, DeLonte**) 6/5/09: Give a presentation to Physics MY freshmen about ISET Atmospheric Research. 6/5/09: Invited by the Appalachian State University to give a seminar at their Physics Colloquium. 6/6/09: Review a paper (Anault and Roux) for JAS 6/9/09: Attended the Energy PSM Degree Planning Lunch Meeting, 11:30, Gibbs 101 6/9/09: Attended the CU NSF ERC proposal preparation meeting, 3pm, online meeting. 6/10/09: ISET Modeling Group Meeting (10:00 – 12) 6/10/09: CU NSF/Engineering Research Center (3:00 – 4:30) 6/11/09: Meet with the second group of MY freshmen for 2009-2010 (11:00 – 12). 6/11/09: Meet with **Sunny Bae** to discuss her NSF Career proposal and her potential involvement in the new NOAA climate proposal (2:00 – 4:00, Gibbs Conf. Room). 6/12/09: Joined **Dr. Tang's** group meeting (**Tang, James and Wilson**; 10:00 – 12:00; **Tang's** Wendover Lab) 6/12/09: Submit an NOI to NOAA Climate Program Office. 6/16/09: Met with Dr. Maura Hagen, Deputy Director of NCAR, and proposed several issues for NCAR to help, including Web-based class and computing facilities. 6/17/09: Gave a briefing of ISET research to undergraduate ASME majors 6/18/09: Established a Blog (isetmodeling) for the modeling group. 6/19/09: (1) Gave a briefing to **Dr. Liping Liu's** summer workshop students; (2) Met with Charla at 2pm on her PhD thesis research; (3) Participated in CU ERC proposal writing conference call. 6/22/09: Participated in the CU ERC proposal writing conference call. 6/23/09: (1) Gave a talk on "Recent advances and challenges in hurricane forecasting" to the DoD's High Performance Computing Workshop held by the Computational Science and Engineering Program (1pm, IRC 410; invited by **Dr. Radha**, Vice Chancellor for Research); (2) Gave a briefing to **Dr. Liping Liu's** summer school students. 6/24/09: (1) ISET Modeling Group meeting (10:00 am – 12:00 noon); (2) CU ERC tel-conference, 3pm. 6/25/09: Discussing with Nicoleta Bila of Fayetteville State University about "symmetry analysis" collaborative research (4:00 – 5:00pm). 6/26/09: (1) Met with **JP Roop** and **G. Tang** for discussing about Tropical Storm Debby simulation results; (2) Met with **Wilson** and **James** about improving figure quality; (3) Met with **Charla** about his PhD thesis research; (4) Met with Nicoleta Bila about collaborative research. 7/1/09: ISET Modeling Group Meeting 7/7/09: CU ERC proposal preparation phone conference 7/8/09: ISET Modeling Group Meeting 7/10/09: Net meeting with Ian, 7/12/09: Reviewed a paper (Roux) for JAS. 7/13/09: Meeting with Charla 7/13/09: Meeting with DeLonte. 7/13/09: Meeting with Van 7/14/09: Submit ISEE ERC preproposal to NSF, along with UC team. 7/15/09: Modeling group meeting 7/16/09: Curriculum meeting with chairs of Physics, Math, Chem, and director of EES. 7/16/09: AEW paper published by NSBP Proceedings. 7/17/09: Presented a paper (**Lin and Bae**) in Korean Symposium in Raleigh 7/22/09: ISET Modeling Group meeting. 7/23/09: Give a lecture on "Recent advances and challenges in hurricane prediction" to High School Summer Program.

7/24/09: Meeting with Jessica Proud at RENCI and the NOAA HMT (hydrometeorology testbed) program manager, and Keith on potential participation in NOAA HMT program.

7/26-28/09: Visit NOAA ESRL – meetings with **Steve Koch**, Jin Lee, W-Y Sun, Y-H Kuo, Ian Colon-Pagan, etc. 7/29/09: Attended webinars presented by ISET summer interns at NCDC. 7/30/09: ISET Modeling Group Meeting (10-12, 112, Marteena) 8/1/09: Reviewed a paper for JGR (Wong and Chan) 8/3/09: Started to write, revise, and submit 10 – 12 abstracts to EPP Forum 8/5/09: ISET Modeling Group Meeting and hosted the visit of RENCI scientists, Brian Etherton and Jessica Proud. Talks are given by Etherton and Proud, as well as 8 short presentations by ISET PIs and students. 8/6/09: Attended EES faculty meeting. 8/10/09: Met with **Dr. Tang, James, and Wilson** in discussing paper submission and planning for the second AEW paper. 8/11/09: Met with Dr. Sunny Bae on ISET Saharan dust research. 8/12/09: (1) Conducted NCAT ISET Group Meeting, (2) Met with a new MS graduate student in Physics (**Travis Corbett**); 8/13/09: Met with **Ian Colon**. Tang et al., 2009: **Tang, G., Y.-L. Lin, Spinks, J., and W. Jones**, 2009: Numerical simulation of the formation of mesoscale convective systems over eastern African mountains. In preparation. **Lin, Y.-L., G. Tang, J. Spinks, and W. Jones**, 2009: Origin of pre-Debby (2006) African easterly wave and mesoscale convective system. In review. **Rastigejev, Y., and Y.-L. Lin**, 2009: A theoretical study of fine ocean spray on tropical cyclones. J. Atmos. Sci., in review. **Chen, C.-S., Y.-L. Lin, W.-C. Peng, and C.-L. Liu**, 2009: Investigation of a heavy rainfall event over southwestern Taiwan associated with a mesocyclone during the 2003 Mei-Yu season. Atmospheric Research, in review. **Lin, Y.-L., 2008**: Formation of African easterly waves and mesoscale convective systems in eastern North Africa and its impacts on the tropical cyclogenesis over eastern Atlantic Ocean. NSBP Proc., 1140, 104-113. (Appeared in summer 2009)

Dr. Ronald Pedroni proposed the "**Studies of Fundamental Symmetry Breaking Effects via Precision**" has been funded by the National Science Foundation for \$480,000.00 over three years (9/1/09 through 8/31/12). **Dr. Ashot Gasparian** is the PI. **Dr. Ronald Pedroni** serves as the Co-PI.

Dr. Pedroni spent the summer of 2009 mostly at the Triangle Universities Nuclear Laboratory (TUNL) pursuing research activities related to the grant titled, "ARI-MA: Collaborative Research: Nuclear Data Measurements on Actinides Using the High Intensity Gamma-ray Source." I had one graduate student, **Mr. Alton Harrell**, working with me. There were two main experiments in this project with which **Mr. Harrell** and I were involved. First were gamma-ray measurements on ^{235}U using the Nuclear Resonance Fluorescence (NRF) technique. Second were attenuation measurements to determine the total gamma-ray cross sections of various target to an uncertainty of 0.5% or less. also attended a collaboration meeting of the PrimEx group at the Thomas Jefferson National Accelerator Facility located in Newport News, VA.

The meeting was held on 6/2/09 and 6/3/09 to finalize the publishable result of the neutral pi meson lifetime.

Departmental News

Publications: "Cross sections for $^{238}\text{U}(n,n^{\prime})$ and $^{238}\text{U}(n,2n^{\prime})$ reactions at incident neutron energies between 5 and 14 MeV," A. Hutcheson,^{1,5} C. Angell,^{3,5} J. A. Becker,⁷ A. S. Crowell,^{1,5} D. Dashdorj,^{2,7} B. Fallin,^{1,5} N. Fotiades,⁶ C. R. Howell,^{1,5} H. J. Karwowski,^{3,5} T. Kawano,⁶ J. H. Kelley,^{2,5} E. Kwan,^{1,5} R. A. Macri,⁷ R. O. Nelson,⁶ R. S. Pedroni,^{4,5} A. P. Tonchev,^{1,5} and W. Tornow^{1,5}, *Phys. Rev. C* **80**, 014603 (2009) ¹*Department of Physics, Duke University, Durham, North Carolina 27708, USA* ²*North Carolina State University, Raleigh, North Carolina 27695, USA* ³*Department of Physics and Astronomy, University of North Carolina, Chapel Hill, North Carolina 27599, USA* ⁴*North Carolina A&T State University, Greensboro, North Carolina 27411, USA* ⁵*Triangle Universities Nuclear Laboratory, Durham, North Carolina 27708, USA* ⁶*Los Alamos National Laboratory, Los Alamos, New Mexico 87545, USA* ⁷*Lawrence Livermore National Laboratory, Livermore, California 94551, USA*

Mr. Alton Harrell, Masters Degree Student. **Mr. Harrell** was under my supervision at the TUNL for the summer. Besides participating in the above mentioned measurements, **Mr. Harrell** was charged with learning how to use the target changing system that was needed for the attenuation measurements. He also helped with the experimental setups and learned how to analyze the data as it was accumulated. He also gained experience with various computer systems with which previously not had an opportunity to use.

Dr. Pedroni attended the 2009 WebAssign User's Group Meeting held in Raleigh, NC at the Centennial Campus of North Carolina State University in late June.

Dr. Brian Schuft taught PHYS 101 – Introduction to Astronomy. He used the University of Nebraska-Lincoln's astronomy applets and ClassAction think-pair-share questions (<http://astro.unl.edu/>) to engage students in a more interactive class lecture period.

Sociology and Social Work

Dr. Crume, R.V., Sykes, K.E., and Crume, Y.S. (2009). Air quality issues for aging population. *Proceedings of the 2007 National Conference on Environmental Science and Technology*. New York: Springer Publishing Company.

Dr. Crume, R.V., and Crume, Y.S. (in press). Southern Comfort at the Green Hotel. Manuscript accepted for publication in *Solar Today*.

Dr. Mary T. Lewis worked with freshman as an advisor on course selection in April. 2009

Dr. Lewis interviewed sophomores for program admission in Feb. & March 2009. She also served as the advisor to (SOWK) Honor Society Fall semester 2009

Dr. Lewis attended the Honor's event "Conversation with the Chancellor" on April 27, 2009

Dr. Lewis inducted members for Alpha Delta Mu in April 2009 worked with freshman on course selection in April. 2009

Papers accepted for proceeding and presentation at International Transformative Learning Conference in Nov. 2009

Dr. Lewis met with the Text-In-Community Committee to select a campus wide book to read and integrate into course work

Dr. Lewis attended Neighborhood Development Committee meeting at East Market Street Corp.

Dr. Lewis worked with Community Watch Group in Willow Oaks Community.

Brittany Banks & Amirah Key are interning at the East Market Street Development Corporation, analyzing changes in property values and business growth.

Brittany Brooks is interning at the Welfare Reform Liaison Project, analyzing patterns of volunteering.

Christy Cheek & Tyquanda Seward are interning at the Greensboro Partnership for Children, working on data collection and analysis relating obesity among children.

Katrina Davis is interning at Joseph House, a facility for homeless boys, helping in preparation of funding proposals.

Jamie Meyer & Ayoka Wilson are collecting and analyzing data on effects of physical training program of Hayes Taylor YMCA.

Lakita Moore is interning at Housing Authority of Greensboro, researching effectiveness of community development program.

Tysha Thomas is working with **Dr. Phillip Carey**, analyzing demographic data of Primary Care physicians in Guilford and Mecklenburg counties.

Participation in the work of the College of Arts and Sciences Evaluation Committee

Departmental News

Participation in the NC A&T Quality Enhancement Committee, preparatory to the 2010 SACS assessment.

International Advisory Committee, Human Relations Commission, City of Greensboro Family Life Committee, Habitat for Humanity

Dr. Mary T. Lewis served as advisor of the Honor Society Alpha Delta Mu for undergraduate Social Work 2008-to present (held election of officers, completed student activity forms, set-up bank account; set up Blackboard space for members)

Dr. Lewis served as Freshman advisor for the first half of the alphabet for the undergraduate B.S.W. program. (Meeting with freshman for introductory session; reviewing steps to graduation; reviewing B.S.W. course guide; discussing their adjustment process to campus life; beginning process of identifying learning styles, strengths and areas they need support.

Dr. Lewis coordinating the Sophomore Orientation program for the B.S.W. program on September 24, 2009.

Dr. Lewis created unit of study in HBSE to examine Social system theory and its foundational importance for the practice and understanding of social work. (summer 2009)

Dr. Lewis enhanced the Social Work and Social Welfare Policies course by putting it online. (Summer 2009) Lewis also submitted article *Reflection on Privilege: Impact on My Social Work Practice, To Reflections* waiting acceptance (summer 2009)

Dr. Lewis is planning to attend and present at the International System Science Conference in this fall – Nov 2009. Paper on *Transformative Learning as a Process in Social Work Education for Developing and Understanding the Use of Privilege and Power*, to be published in peer reviewed conference proceedings

Dr. Lewis still waiting to hear on grant: Co-Convener for EPA Grant "Sustainable Skylines_(joint project between Sociology and Social Work Department, Engineering Department and City of Greensboro) Submitted Dec. 2008.

Dr. Lewis completed IRB Training (summer 2009)

Dr. Lewis continued research on use of alternative way to enhance Social Work interviewing skills through joint collaboration with Theater Program (Fall 2009).

Dr. Lewis is working with the Willow Oak Community in an envisioning process for the future of the community (fall-2009)

Dr. Lewis is a member of the East Market Corporation Neighborhood committee

Dr. Lewis is exploring opportunities with Dr. T. Carter at the East Market Street Corp for working with communities around engagement on identified issues.

Dance

Cortney Key, Shaniqua Dubrey and **Kamina Darden** spent time in South Africa, summer 09. The purpose of the trip was to study dance and culture in Cape Town, Johannesburg and Limpopo. **Cortney** spent two weeks assisting **Ms. Dubrey** with her research. **Ms. Darden** and **Ms. Dubrey** traveled on to Limpopo, SA to work on their **Venda** dance and culture. They each had many wonderful and moving experiences in South Africa. Some of the cultural events were, "Nothing But the Truth" starring John Kani and the musical "Umoja".

The research phase in Limpopo was advised by **Dr. Eleanor Gwynn** and **Melanie Dalton**. The students conducted interviews, observed traditional rituals and immersed themselves in the Venda culture. Both **Ms. Darden** and **Ms. Dubrey** purchased Venda artifacts, books and traditions dresses in preparation for their senior project presentations, spring 2010.

Eleanor Gwynn, Melanie Dalton and **Cheryl Stevens** accompanied three dance concentration majors to South Africa from May 11 to June 4th. The faculty supervised traditional and field research for the dance majors.

Dr. Brenda Faison on September 8th and 9th (Tuesday and Wednesday) 2009, I will be attending The Winning Grants Seminars from 8:30 am - 5:00 pm at Wake Forest University in Winston Salem.

Music

Two Junior Music Majors: **Myranda Dorsey** and **James Thomas**, participated in the 2009 HBCU National 105 Voices of History Concert at the Kennedy Center in Washington, DC on August 26-30, 2009. In addition, **Myranda** received a \$1000 "105 Voices Scholarship".

Travis Alexander, NC A & T University Choir Director, attended the 2009 HBCU Vocal/Choral Director's Summit/HBCU National 105 Voices of History Concert at the Kennedy Center in Washington, DC on August 28-30, 2009 in support of our music majors, **Myranda Dorsey** and **James Thomas**.

Departmental News

Theatre

Frankie Day-Program Director of Theatre and the Theatre Executive Director). **Prof. Day** has won the KCACTF Region IV 2009 Teaching Artist Award

GoGo Lomo David, Internship, National Black Theatre Festival, Costumes, **Kiandra Dove** Internship, National Black Theatre Festival, Costumes **Vanecia Boone** Performer, *Don't Bother Me I Can't Cope*. National Black Theatre Festival Darell Hunt Performer, *Don't Bother Me I Can't Cope* National Black Theatre Festival, **Brandon Godfrey** Performer, *Don't Bother Me I Can't Cope*, National Black Theatre Festival **Phillip Taylor**, Sound Technician, National Black Theatre Festival, **Marcus Zollicofer** Internship, National Black Theatre Festival, Mad at Miles Todd Donahue, Internship, Barn Dinner Theatre, National Black Theatre, Festival, *Mad at Miles* **Keirra Jordan** Internship, The Broach Theatre, National Black Theatre Festival, *Mad at Miles* **Monet Marshall** Internship, LDTG Theatre Company, NY, Stage Manager. **Jessica Evans** Internship, Wolf Trap Theatre, Washington DC, **Tanisha Fordham** Performer, National Black Theatre Festival, *Mad at Miles*, **Michele Hopkins** Stage Manager, National Black Theatre Festival, *Mad at Miles* **Jamia Tucker** Summer Camp Teacher, A&T Summer Enrichment Camp & Performer, West Side Story, City Arts of Greensboro **Nicholas Turner**, Summer Camp Teacher, A&T Summer Enrichment Camp **Delores Rose**, Camp Instructor, Caldcleugh Multicultural Arts Center, Greg Stanford Performer, National Black Theatre Festival, *Mad at Miles*

Frankie Day taught Acting for Non-Majors. Dr. Vanita Vector taught Acting for Non-Majors. **Gregory Horton** taught Acting for Non-Majors. **Donna Bradby** taught Acting for Non-Majors, Internship Class, Director A&T Enrichment Camp – Theatre, Director *Mad at Miles* at the National Black Theatre Festival. **Tina Liggins** performed in *Don't Bother Me I Can't Cope* at The National Black Theatre Festival.

All Theatre Faculty participated in a Faculty Retreat.

Dr. Vanita Vector presented on a panel at the 2009 American Theatre in Higher Education (ATHE) Conference entitled, Open your World: Fulbright Opportunities in Theatre. Performed in a staged-reading of *Standing the Test of Time* at The National Black Theatre Festival.

Dr. Vector attended the International Theatre Colloquium, **The Voice of Women in Black Theatre**.

Visual Arts

Dr. Willie Hooker was selected to receive an award due to the work that he has done with students. His exemplary exhibition record and his community work has placed him as one of the top educators among the HBCU art programs throughout the country.

