Dear FAMU Supporters:

Thank you for reviewing some of the research advances of Florida A&M University (FAMU). It is our sincere desire to develop mutually beneficial collaborations and partnerships among academicians, governmental agencies, businesses and various industries.

It is a very expansive time at FAMU as we work to fulfill our University's Strategic Plan "2020 Vision With Courage." Emphasis is placed in the plan on Goal 3.4: Enhance visibility and productivity at a Doctoral/Research University. A review of the Strategies reminds us of the significance of this goal:

- **Strategy 3.4.1:** Establish a comprehensive **research** strategy identifying areas of critical importance to the University.

- **Strategy 3.4.2:** Provide incentives for faculty, staff and students to be aggressively engaged in **research** and other creative activities and to pursue federal, state and private funding.

- **Strategy 3.4.3:** Enhance all business processes to facilitate FAMU being a nationally recognized **doctoral/research** institution.

This goal and its strategies involve research, service, training and the development of the entire FAMU community, a culture of continual improvement mandating ingenuity and unparalleled consistency and are very optimistic that highlighting our work can lead to greater opportunities. The whole world is awaiting our next invention, our next revolutionary discovery that will impact humanity in such a way that the masses will experience a far better way of life.

We eagerly anticipate the advantages of shared associations.

Sincerely,

James H. Ammons
President

FAMU IS AN EQUAL OPPORTUNITY/EQUAL ACCESS UNIVERSITY
Dear FAMU Supporters:

I enthusiastically endorse the 2012 version of the FAMU Division of Research Statement of Capabilities. This document allows internal and external stakeholders and potential collaborators to access the wealth of expertise resident in the faculty, staff and students of Florida A&M University. A document of this type is critically important as we embark upon new initiatives in research and development and seek to expand partnerships in areas of mutual interest. Collaboration will play a key role in our success. I welcome all of you to explore this document and find herein a compilation of highly skilled individuals who are committed to addressing the most challenging issues confronting our society.

Sincerely,

Larry Robinson, Ph.D.
Provost and Vice President for Academic Affairs

FAMU IS AN EQUAL OPPORTUNITY/EQUAL ACCESS UNIVERSITY
Dear FAMU Supporters:

We value FAMU's research achievements in all fields; there's a lot of work to do in the social and behavioral sciences, and particularly, in the STEM (Sciences, Technology, Engineering and Mathematics) areas. Charting new courses in wide-ranging research, service, training and development ventures continues to be at the forefront of our daily agenda, from moment to moment. As you peruse this version of the FAMU Division of Research Statement of Capabilities, please observe the continuity of our staunch principal investigators and researchers wholistically.

With customer service as our mantra and quality as our benchmark, we're encouraged as we primarily salute the STEM-laden research within the following pages. Our unending quest is to provide the needed infrastructure to facilitate this kind of service (and beyond) throughout the entire FAMU and advocating research communities. The content and context presented here is an immediate step in furthering our collaborations and partnerships, thereby leaving an imprint on generations, yet unborn. We are pleased to share snippets of these profiles.

Sincerely,

K. Ken Redda, Ph.D.
Professor and Acting Vice President for Research

FAMU IS AN EQUAL OPPORTUNITY/EQUAL ACCESS UNIVERSITY
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MICHAE.L ABAZINGE, PH.D.

Physiology & Nutrition Professor and Interim Dean
School of the Environment
Director, NOAA Environmental Cooperative Science Center
FSH-SRC: Room 305-D
Florida A&M University,
Tallahassee, FL 32307
Phone: 850-599-3550
Fax: 850-599-8183
Email: michael.abazinge@famu.edu

EDUCATION: Ph.D., Virginia Polytechnic Institute

RESEARCH INTERESTS/AREAS OF EXPERTISE:
Environmental Physiology, Bioconversion of Agricultural Waste

JENNIFER CHERRIER, PH.D.

Associate Professor | School of the Environment
FSH-SRC: Room: 308-L, Florida A&M University,
Tallahassee, FL 32307
Phone: 850-561-2134 | Fax: 850-561-2248 | Email: jennifer.cherrier@famu.edu

EDUCATION: Ph.D., Biogeochemical Oceanography, Florida State University,
Tallahassee

RESEARCH INTERESTS/AREAS OF EXPERTISE:
Biogeochemistry of aquatic environments with emphasis on carbon and nitrogen cycling and flux; aquatic microbial ecology; hydrocarbon degradation; water conservation and mitigation strategies for non-point and point source contaminant loading (rain gardens and bio swales); coastal zone management; ocean science education.
FREDERIC ESSIEN, PH.D.

Associate Professor, School of the Environment
FSH-SRC: Room: 308-K; Florida A&M University, Tallahassee, FL 32307
Phone: 850-561-2133 | Fax: 850-561-2248 | Email: frederic.essien@famu.edu

EDUCATION: Ph.D., Environmental Control, University Of Newcastle (Upon Tyne, England)

RESEARCH INTERESTS/AREAS OF EXPERTISE: Atmospheric chemistry and physics; air pollution; micrometeorology: surface-atmosphere turbulent exchange (gases, particulates, energy); environmental radioactivity: environmental fate and transport of low activity radionuclides; and radiation protection.

RICHARD SCHULTERBRANDT GRAGG, III, PH.D.

Associate Professor of Environmental Science and Policy, School of the Environment
Founding Director - Center for Environmental Equity and Justice (1998-2011)
Chair, FAMU Environment and Sustainability Council
FSH-SRC: Room: 306-D
Florida A&M University
Tallahassee, FL 32307
Phone: 850-599-8549
Fax: 850-412-7785
Email: richard.gragg@famu.edu

EDUCATION: Ph.D., Florida A&M University, Pharmaceutical Sciences (Toxicology)

RESEARCH INTERESTS/AREAS OF EXPERTISE:
Environmental Health Disparities, Sustainability, Environmental Toxicology, Environmental Justice, Environmental Policy

ASHVINI CHAUHAN, PH.D.

Assistant Professor | School of the Environment
Phone: 850-412-5119 | Fax: 850-561-2248 | Email: ashvini.chauhan@famu.edu
http://sites.google.com/site/ashvinichauhan/
http://www.famu.edu/index.cfm?environmentalscience&Faculty

EDUCATION: Ph.D., Institute of Microbial Technology (IMTECH)

RESEARCH INTERESTS/AREAS OF EXPERTISE: Environmental microbiology and biotechnology; biofuels; biodegradation
CHARLES H. JAGOE, PH.D.

Education: Ph.D., Zoology, University of Maine

Research Interests/Areas of Expertise:
- Zoology, Ecology, EcoToxicology (effects of pollutants and other anthropogenic stresses on organisms and ecosystems);
- Cycling, accumulation and effects of toxic compounds in the environment;
- Environmental processes controlling contaminant speciation, bioavailability and bioaccumulation; biomarkers of contaminant exposure and stress; applications of transgenic and invertebrate models in environmental toxicology; risk assessment as applied to ecological problems, and radioecology. My current work includes studies of the impacts of the 2010 Gulf of Mexico oil spill, mercury biogeochemistry and effects in coastal and estuarine systems, effects of pollutants on fish and wildlife, interactions among microbes and contaminants, and applications of remote sensing to assess environmental changes.

ELIJAH JOHNSON, PH.D.

Education: Ph.D., Chemical Physics, University of Illinois at Urbana-Champaign

Research Interests/Areas of Expertise: Statistical Mechanics and Quantum Chemistry; Chemical reactions; Environmental Risk assessment; Fluid flow in aquifers; biological systems, estuaries, rivers, and the atmosphere; Relativistic quantum mechanics; Statistical Mechanical Monte Carlo and molecular dynamics treatment of DNA and proteins.
MARCIA OWENS, J.D., PH.D.

Assistant Professor
School of the Environment
306-B Humphries Science Research Center
Tallahassee, FL 32307
Phone: (850) 599-8556
Fax: (850) 599-3183
Email: Marcia.owens@famu.edu

EDUCATION: Ph.D., Emory University

RESEARCH INTERESTS/ AREAS OF EXPERTISE: She has more than 20 years of experience as an environmental attorney with EPA Region 4 and the City of Atlanta. Research includes contributors and inhibitors of environmental literacy in various sectors.

Here, Dr. Owens with then U.S. Vice President, Al Gore at the Climate Reality Project.

HENRY NEAL WILLIAMS, PH.D.

Professor, Microbial Ecology
School of the Environment, 308-O, FSH-SRC
Tallahassee, FL
Phone: (850) 599-3550 | Email: henryneal.williams@famu.edu

EDUCATION: Ph.D., Microbiology, University of Maryland, Baltimore

RESEARCH INTERESTS/ AREAS OF EXPERTISE: The ecology, phylogeny, taxonomy and applications of the predatory bacterial group, Bdellovibrio and Like Organisms; microbial ecology of bacteria in freshwater lakes, ponds and springs and infection control in dentistry.

Dr. Williams shares with students in the School of the Environment.
VIOLETKA COLOVA (TSOLOVA), PH.D.

2012 FAMU Research Excellence Award Recipient

Professor in Viticulture and Developmental Biology
FAMU Center for Viticulture and Small Fruit Research
6505 Mahan Drive, Tallahassee, FL 32317
Phone: (850) 412-7394
Fax: (850) 561-2617
E-mail: Violetka.Colova@famu.edu

EDUCATION: Ph.D., Cell Biology, Bulgarian Agriculture Academy: National AgroBIO Institute (former Institute of Genetic Engineering)
Sofia, Bulgaria

RESEARCH INTERESTS/AREAS OF EXPERTISE: Viticulture, plant developmental biology and biotechnology

Dr. Tsolova with Biotechnology Lab Class Spring 2012

ANTHONY ANANGA, PH.D.

Post Doctoral Research Associate
Molecular Biology and Biotechnology
FAMU Center for Viticulture and Small Fruit Research,
Room 136
Tallahassee, FL 32308
Phone: (850) 412-7397
Email: anthony.ananga@famu.edu

EDUCATION: Ph.D., Plant Molecular Genetics and Food Biotechnology, Alabama A&M University

RESEARCH INTERESTS/AREAS OF EXPERTISE: Regulatory and metabolic networks of gene expression in muscadine berries and cell lines for viticulture and human health applications.

Dr. Ananga introduces students to molecular biology techniques at the Viticulture Laboratory.
**JIANG LU, PH.D.**  
2011 FAMU Research Excellence Award Recipient

Professor, Plant Genetics and Breeding  
FAMU Center for Viticulture and Small Fruit Research  
Mahan Drive, Tallahassee, FL 32317  
Phone: (850)412-7393  
Fax: (850)561-2617  
Email: Jiang.lu@famu.edu

**EDUCATION:** Ph.D., University of Reading, England

**RESEARCH INTERESTS/AREAS OF EXPERTISE:**  
Improving fruit quality of muscadine grapes;  
Introgressing disease-resistance genes into Florida hybrid bunch grape cultivars through both molecular and conventional breeding approaches; Functional genomics of disease resistance and fruit quality; Identification, isolation, and characterization of disease/pest resistant genes from native North American grape species.

---

**MEHBOOB B. SHEIKH, PH.D.**

Professor, Plant Biotechnology  
FAMU Center for Viticulture and Small Fruit Research, Room #130  
Tallahassee, FL  
Phone: (850) 412-5189  
Email: Mehboob.sheikh@famu.edu

**EDUCATION:** Ph.D., Botany, University of Oklahoma

**RESEARCH INTERESTS/AREAS OF EXPERTISE:**  
Developmental biology, biotic and abiotic stresses, plant based nutraceutical components, genomics, proteomics and metabolomics.

---

Here, Dr. Sheikh uses High Performance Liquid Chromatography for fractionation of sugars, amino acids and phenolics.
BOBBY R. PHILLS, PH.D.

Professor of Horticulture/Small Fruits & Director, Small Fruit Research and Outreach Program
FAMU Center for Viticulture and Small Fruit Research
6505 Mahan Drive | Tallahassee, FL 32317
Phone: (850) 599-8685 | Mobile: (850) 528-4616
Email: bobby.phills@famu.edu

EDUCATION: Ph.D., Horticulture/Plant Breeding, Louisiana State University, Baton Rouge

RESEARCH INTERESTS/AREAS OF EXPERTISE: Horticulture/vegetable and fruit crops; Plant breeding and genetics; Interagency collaborations; Research administration; and research-related extension programs.

Dr. Phills displays nature’s candy which helps bring joy to his heart and money to his clientele’s pocket. Blackberries are a major research component of his crop improvement program for small and limited resource farmers. Research, education, service, training and development working together for the benefit of humanity.
CLIFFORD LOUIME, PH.D.

Assistant Professor
Coordinator of the CFA Scholars Program
Co-Chair FAMU BioEnergy Group
College of Agriculture and Food Sciences
217 Perry-Paige South
Tallahassee, FL 32307
Phone: (850) 561-2644
Fax: (850) 561-7045
Email: Clifford.Louime@famu.edu

EDUCATION: Ph.D., FAMU Environmental Sciences Institute (now, School of the Environment)

RESEARCH INTEREST/AREAS OF EXPERTISE: Molecular Microbiology

Dr. Louime is monitoring the performance of soil bacteria grown on cellulosic materials.

OGHENEKOME U. ONOKPISE, PH.D.

Professor and Associate Dean
College of Agriculture and Food Sciences (CAFS)
Room 204 Perry-Paige Building, South Florida A&M University
Tallahassee, FL 32307
Office: (850) 561-2127
Lab: (850) 412-7044
Mobile: (850) 524-9997
Fax : (850) 599-8821
Email: oghenekome.onokpise@famu.edu

EDUCATION: Ph.D., Iowa State University, Ames, Tree Breeding and Forest Genetics

RESEARCH INTERESTS/AREAS OF EXPERTISE: Tree improvement, plant breeding and genetics, germplasm collection, evaluation and utilization, invasive species management, feedstock development for biofuels, agroforestry systems, ecological restoration and gene flow patterns, biotechnology and international development with emphasis in Sub-Saharan Africa.

Dr. Onokpise (center) demonstrates an experimental procedure for extracting proteins from germinating seeds to a student in a Seed Science and Technology Laboratory Class at FAMU. Photo by Marian Bellamy-Gibbons, FAMU College of Agriculture and Food Sciences
MOSES T.K. KAIRO, PH.D.

Professor/Director, FAMU CBC
310 Perry-Paige Building
Tallahassee, FL 32307-4100
(850) 599-3149

EDUCATION: Ph.D., Entomology, University of London, UK

RESEARCH INTERESTS/AREAS OF EXPERTISE: Biological control – implementation and policy, integrated pest management, invasive species biology and management, international development.

LAMBERT H.B. KANGA, PH.D.

2011 FAMU Research Excellence Award Recipient

Professor and Program Leader, Entomology
Graduate Programs Coordinator
College of Agriculture and Food Sciences
Room 406, Perry-Paige Building
Tallahassee, FL
Phone: (850) 599-8725
Email: Lambert.kanga@famu.edu

EDUCATION: Ph.D., Entomology, Texas A&M University, and a French Doctoral degree in Biology/Ecology, University of Ivory Coast, University of Bordeaux, France

RESEARCH INTERESTS/AREAS OF EXPERTISE: Insect toxicology, insect pathology, biological control, insecticide resistance, insect molecular genetics, and insect population dynamics.
At top left, Edward G. Tolliver, Ph.D. and Coach Marion Chisholm (former Gainesville, FL Coach) oversee the 2011 class of the BMCEPT funded by the Florida Department of Education, just before their culminating summer extravaganza.

EDWARD G. TOLLIVER, PH.D.
Director, Black Male College Explorers Program
FAMU College of Education
444 Gamble Street, Suite 215, Tallahassee, FL 32307
Phone: (850) 561-2408
Fax: (850) 599-8098
Email: Edward.tolliver@famu.edu

EDUCATION: Ph.D., Florida A&M University, Educational Leadership

RESEARCH INTERESTS/AREAS OF EXPERTISE: The impact busing has on school achievement in rural elementary, consolidated schools, and the critical issues affecting Black males in Florida.
**SETH Y. ABLORDEPPEY, PH.D.**
2010 FAMU Research Excellence Award Recipient

Professor of Medicinal Chemistry and Interim Dean, CoPPS
Florida A&M University
333 New Pharmacy Bldg.
Tallahassee, FL 32307
Phone: (850) 599-3301
Email: seth.ablordeppey@famu.edu

**EDUCATION:** Ph.D., Medicinal Chemistry and Drug Design, University of Mississippi, Oxford, MS

**RESEARCH INTERESTS/AREAS OF EXPERTISE:** Drug design and synthesis of small molecules for CNS receptors natural products as leads in drug development computer-aided design of novel anti-infective and antipsychotic agents.

---

**KINFE KEN REDDA, PH.D.**

Professor of Medicinal Chemistry, CoPPS and Acting Vice President, Division of Research
410 Foote-Hilyer Administration Center
Tallahassee, FL 32307
Phone: 850-412-5102
Email: kinfe.redda@famu.edu

**EDUCATION:** Ph.D., Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Edmonton, Canada

**RESEARCH INTERESTS/ AREAS OF EXPERTISE:** Metal Neurotoxicity, organic synthesis and synthetic methodology drug design utilizing structure activity relationships and molecular modeling techniques and research administration.

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Dr. Ablordeppey (right) observes the separation of synthetic compounds using a new CombiFlash chromatographic system by Research Associate Dr. Reddy Etukala. Photo by: Dr. James L. Moran, FAMU CoPPS

Dr. Redda works with post-docs and doctoral students in his synthetic medicinal chemistry lab, FAMU CoPPS. Photo by: DeNise Gordon, FAMU CoPPS
KARAM F. A. SOLIMAN, PH.D.
2010 FAMU Distinguished Researcher Award Recipient

Distinguished Professor, Basic Pharmaceutical Sciences
RCMI Program Director
Florida A&M University
104 Dyson Pharmacy Building
Tallahassee, FL 32307
Phone: (850) 599-3306
Fax: (850) 599-3667
Email: karam.soliman@famu.edu

EDUCATION: Ph.D., Endocrinology, University of Georgia


DONALD E. PALM, PH.D.

Professor and Assistant Vice President for Academic Affairs
Office of the Provost and Vice President for Academic Affairs
Suite 301, FHAC
Florida A&M University
Tallahassee, FL 32307
Phone: (850) 599-3276
Fax: (850) 561-2551
Email: donald.palm@famu.edu

EDUCATION: Ph.D., Pharmacology, Pennsylvania State University, Milton S. Hershey Medical Center, Hershey, PA

RESEARCH INTERESTS/AREAS OF EXPERTISE: Involvement of Lysosomal Proteases in the Pathogenesis of Stroke and Parkinson’s Disease Oxidative Stress-induced Programmed Cell Death and Neurodegeneration.
R. RENEE REAMS, PH.D.

Professor of Biochemistry
Chair, Medicinal Chemistry Section
FAMU CoPPS
Tallahassee, Florida 32307
Affiliate Member, Pharmaceutical
Outcomes and Policy, University of Fla.
College of Pharmacy
Affiliate Member, Shands Cancer
Center, UF, Gainesville, FL 32611
Ph: (850) 561-2672
Fax: (850) 599-3731
Email: renee.reams@famu.edu or
reenereams.famu@gmail.com

EDUCATION: Ph.D., Biochemistry,
Brigham Young University, Provo, Utah

RESEARCH INTERESTS/AREAS
OF EXPERTISE: Metal Neurotoxicity,
Genomics of Prostate Cancer Health
Disparity.

MANDIP S. SACHDEVA, PH.D.

2010 FAMU Research Excellence Award Recipient

Professor and Section Leader,
Pharmaceutics
FAMU CoPPS
210 New Pharmacy Building
Tallahassee, FL 32307
Phone: (850) 561-2790
Email: Mandip.sachdeva@famu.edu

EDUCATION: Ph.D.,
Biopharmaceutics
Dalhousie University, Halifax, NS,
Canada

RESEARCH INTERESTS/
AREAS OF EXPERTISE: Drug
delivery systems, i.e. liposomes,
nanoparticles, microspheres;
cancer pharmacology, biology
and therapeutics with emphasis
on breast and lung cancer; skin
irritation, permeation (of drugs
and peptides) and skin toxicology
Studies; inhalation and nasal
delivery systems with emphasis on protein and peptide delivery.
BARACK O. ABONYO, PH.D.
2010 FAMU Emerging Researcher Award Recipient

Assistant Professor of Pharmacology
FAMU CoPPS
Division of Basic Sciences
211 New Pharmacy Bldg., Research Wing
Tallahassee, FL 32307
Phone: 850-561-2553 | Fax: 850-599-3347
Email: abonyo.barack@famu.edu

EDUCATION: Ph.D., Physiology, East Carolina University, Greenville, NC

RESEARCH INTERESTS/AREAS OF EXPERTISE: Molecular modulation of eotaxins and CCR receptor expression as a possible strategy for asthma therapy; Profiling cytokines and chemokines involved in neurodegeneration; Profiling cytokines and chemokines involved in cancer metastasis; Chemokines and surfactant interaction during asthma and ARDS; Identification of eotaxin-3 (ccl26) regulated genes in alveolar epithelial type II and I cells using antisense, RNAi and cDNA microarray; and Molecular analysis of African medicinal plant extracts contribution to cancer, asthma and ARDS therapy.

JOHN S. COOPERWOOD, PH.D.

Associate Professor of Medicinal Chemistry
FAMU CoPPS, Division of Basic Pharmaceutical Sciences
308G Frederick S. Humphries Science Research Center
Tallahassee, FL 32307
Phone: (850) 599-3110 | Fax: (850) 599-3323
Email: john.cooperwood@famu.edu

EDUCATION: Ph.D., Medicinal Chemistry, University of Georgia, Athens, GA

RESEARCH INTERESTS/AREAS OF EXPERTISE: Design, synthesis and evaluation of drugs targeting breast cancer through binding to estrogen receptor; Design, synthesis and evaluation of drugs targeting non-small cell lung cancer.

Dr. Cooperwood's laboratory focuses on design and synthesis of small molecules for the treatment of triple negative breast cancer. His laboratory uses molecular modeling to design small molecules in order to optimize anticancer activity. He has several lead compounds displaying promising results.
CARL B. GOODMAN, PH.D.

Professor, Basic Pharmaceutical Sciences, FAMU CoPPS
Division of Basic Pharmaceutical Sciences
308-E Frederick S. Humphries Science Research Center
Tallahassee, FL 32307
Phone: (850) 599-3128
Fax: (850) 412-7113
Email: carl.goodman@famu.edu

EDUCATION: Ph.D., Pharmacology/Toxicology, Florida A&M University

RESEARCH INTERESTS/AREAS OF EXPERTISE:
Biotechnology: Pathways to disease prevention and therapy.

FAMU CoPPS Graduate and Professor, Carl Goodman, Ph.D., prepares DNA samples from rat brain tissues to measure the gene expression by real-time polymerase chain reaction (RT-PCR) of Mu opioid receptor after chronic treatment with morphine. This is the caliber of continual research, service, training, and development activities conducted at FAMU.

Photo by DeNise Gordon, FAMU CoPPS.

CYNTHIA M. HARRIS, PH.D., MABT

Professor and Director
Institute of Public Health
207-E Frederick S. Humphries Science Research Center | Tallahassee, FL
Phone: (850) 599-8655 | Fax: (850) 599-8830 | Email: Cynthia.harris2@famu.edu
EduCAtion: Ph.D., Biomedical Sciences, Meharry Medical College, Nashville, TN

note: Duval County Health Department (DCHD), FL has served as a partner with FAMU for several years regarding community outreach to underserved communities and addressing environmental justice concerns. The synergy between the DCHD, FAMU Institute of Public Health, FAMU School of the Environment, and Florida Department of Health has resulted in a wonderful collaborative in providing environmental health and toxicology education research and training to health care providers, students, and outreach to the urban core communities of Jacksonville. The Jacksonville Racial and Ethnic Environmental Approaches to Community Health (REEACH): An Environmental Health and Toxicology Training Program is raising the public’s and medical provider’s awareness of potential environmental hazards and concerns regarding ash from waste burning incinerators that was deposited in residential communities and posed a potential threat to the public health and the environment. It has facilitated the collaborative partnership between the DCHD and the City of Jacksonville in addressing residents’ questions about the clean-up process and its impact on their communities. The image reflects Principal Investigator, Dr. Harris put on an event held in Jacksonville, Fla. REEACH is funded by the Centers for Disease Control and Prevention Agency for Toxic Substances and Disease Registry 5 R01/TS000108-02; Richard D. Gragg, III, Ph.D., FAMU School of the Environment, is Co-PI of the grant.

Research Interests/Areas of Expertise: Public health, environmental toxicology, general toxicology, risk assessment, health disparities.

Nazarius S. Lamango, Ph.D.
2011 FAMU Research Excellence Award Recipient

Associate Professor of Medicinal Chemistry
Division of Basic Pharmaceutical Sciences
FAMU CoPPS
209-G, Frederick S. Humphries-Science Research Center
Tallahassee, FL 32307
Phone: (850) 412-7377
Fax: (850) 599-3347
Email: nararius.lamango@famu.edu

EduCAtion: Ph.D., University of Leeds, Leeds, United Kingdom


Here, Dr. Lamango (left) is studying PMPMEase inhibition as an avenue towards targeted anticancer therapy.
HONG XIAO, PH.D.
2012 FAMU Research Excellence Award Recipient

Professor and Director of Economic Social and Administrative Pharmacy (ESAP) Division
FAMU CoPPS, Division of ESAP
200 Dyson Pharmacy Bldg.
Tallahassee, FL  32307
Phone: 850-599-3375
Fax: 850-412-7548

EDUCATION: Ph.D., Pharmaceutical Socioeconomics, University of Iowa, Iowa City, IA

RESEARCH INTERESTS/AREAS OF EXPERTISE: Health disparities research using space-time, information system, access to and utilization of health care, Comparative effectiveness and health outcomes research. Patient satisfaction and self-rated health status, Evaluation of pharmacy services, Patient education and self-management of disease.

RASHID I. ELHAG, PH.D.

Instructor, FAMU Department of Biological Sciences
Room 211, Jones Hall
Old DRS, Bldg #63, Room 101
Tallahassee, FL  32307
Phone: (850) 561-2749
Fax: (850) 561-2996
Email: Rashid.elhag@famu.edu

EDUCATION: Ph.D., University of California, Riverside.

RESEARCH INTERESTS/AREAS OF EXPERTISE: Molecular biology, microbiology, general biology, developmental biology--concentrated on deciphering the mechanism of action of anti-cancer and anti-angiogenic drugs, as applied to the highly malignant primary brain tumors, glioblastoma multiforme (GBM).
GOHKAN HACISALIHOGLU, PH.D.
2010 FAMU Research Excellence Award Recipient

Associate Professor of Biology
FAMU Department of Biological Sciences
211 Jones Hall
Tallahassee, FL 32307
Phone: (850) 599-3665
Email: Gokhan.h@famu.edu

EDUCATION: Ph.D., Plant Physiology, Cornell University, Ithaca, NY

RESEARCH INTERESTS/AREAS OF EXPERTISE: Nutrient efficiency in beans & soybeans screening medicinal plants hydrilla effect on nutrients, Wakulla Springs, FL Maximizing Biomass Production for Biofuels.

Dr. Gokhan Hacisalihoglu, an Associate Professor of Biology, is observing water and plant nutrients in North Florida lakes.

RAMESH KATAM, PH.D.
2012 FAMU Emerging Researcher Award Recipient

Assistant Professor
FAMU Department of Biological Sciences
Jones Hall, Room 204
Tallahassee, FL 32307
Phone: 850-559-3134
Email: Ramesh.katam@famu.edu

EDUCATION: Ph.D., Plant Sciences (Horticulture), Mississippi State University, Ph.D., Botany (Tissue Culture), M.S. University (Baroda, India)

RESEARCH INTERESTS/AREAS OF EXPERTISE: Expression analysis of cellular and molecular responses during plant-pathogen interaction; Differential expression of transcripts and proteins in plants during various developmental, and abiotic stress responses; Proteome analysis of human and mice cell lines under various abiotic stresses; and Effect of plant extracts on inhibition of cancer cell growth and their regulatory mechanism involving genes and proteins.

FAMU Professor Ramesh Katam, Ph.D. (wearing blue gloves) demonstrating the procedure for extracting total proteins from plant tissue to students during an undergraduate research and training course at Penn State University.
LEKAN M. LATINWO, PH.D.
Professor and Chairman
Department of Biological Sciences
Room 217 Jones Hall
Tallahassee, FL 32307
Tel: (850) 599-3908
Email: lekan.latinwo@famu.edu

EDUCATION: Ph.D., Atlanta University, Atlanta, GA

RESEARCH INTERESTS/AREAS OF EXPERTISE: Investigation of mechanisms underlying the toxification and detoxification of environmental pollutants, specifically understanding the molecular mechanisms of heavy metal intoxication, Molecular basis for the anticancer effect(s) of coumarin analogs in breast and lung cell lines.

Dr. Latinwo examines the cytotoxic effects of new acetoxycoumarin derivatives on lung cancer cells. The drugs were synthesized by Dr. Musa of FAMU’s Department of Chemistry.

MAURICE EDINGTON, PH.D.
Associate Professor
Phone: (850) 599-8494 | Fax: 599-3709 | Email: maurice.edington@famu.edu

EDUCATION: Ph.D. Vanderbilt University

RESEARCH INTERESTS/AREAS OF EXPERTISE: The general theme of our research centers on the use of various techniques of time-resolved laser spectroscopy to investigate condensed phase chemical reaction dynamics in metalloproteins and small molecule systems having a biological or environmental significance. For example, we are currently interested in gaining a comprehensive understanding of the chemistry exhibited by dioxygen activation- and transport-proteins. Our interest in this area is motivated by our desire to develop efficient dioxygen carriers for blood substitutes. We are seeking to determine how the active-site electronic and structural features of non-heme dioxygen transport and activation proteins control their reactions with dioxygen.

EDITH N. ONYEZOZILI, PH.D.
Assistant Professor
Phone: (850) 412-5328 | Email: edith.onyezozili@famu.edu

EDUCATION: Ph.D., Chemistry (Organic), Michigan State University, East Lansing, MI

RESEARCH INTERESTS/AREAS OF EXPERTISE: Organic Chemistry emphasizing organic synthesis and method development; Inorganic Chemistry and inorganic synthesis; Experimental Chemistry; and Chromatographic and Analytical techniques. **Cyclic Allylsilanes in Organic Synthesis**: Goal—finding new lead compounds for drug discovery. This research investigates the reactions of a-oxo cyclic allylsilanes (a-functionalized, and cyclic allylsilanes), with several electrophiles, with a view to generating highly functionalized compounds, which could function as advanced synthetic intermediates for application toward natural products synthesis.
MUSILIYU MUSA, PH.D.
2011 FAMU Emerging Researcher Award Recipient

Assistant Professor | Department of Chemistry
Room 219 Dyson Pharmacy Building Suite 5
Phone: (850) 599-3509
Email: musiliyu.musa@famu.edu

EDUCATION: Ph.D., Synthetic Organic Chemistry, Rhodes University, Grahamstown, South Africa

RESEARCH INTERESTS/AREAS OF EXPERTISE:
Design and synthesis of coumarin derivatives with biological properties utilizing innovative chemical synthetic techniques; In silico screening using Molecular Modeling (Docking) studies; Evaluation of the biological activities of the synthesized coumarin derivatives: (a) in-vitro cytotoxicity studies using various cell lines such as MCF-7 (ER positive breast cancer); A549 (lung cancer) and MDA-MB 231(ER negative breast cancer); (b) cell cycle analysis; (c) determination of the protein expression associated with apoptosis using immunoblot and apoptosis analysis; and (d) binding studies.

JESSE EDWARDS, PH.D.

Associate Professor
Phone: (850) 412-5329 | Email: jesse.edwards@famu.edu

EDUCATION: Ph.D., Iowa State University

RESEARCH INTERESTS/AREAS OF EXPERTISE:
My dissertation discussed the electronic structure of a wide range of small early transition metal containing molecules using the ab initio techniques: SCF, GVB, MCSCF, CASSCF, MRCl and Density Functional Theory. These systems prepared me to take on even greater challenges as a postdoctoral fellow. My postdoctoral work entailed the precise modeling of the potential energy surfaces of van der Waals complexes containing alkali and alkaline earth metals with halides using MRDCI techniques. These species are relevant in the area of laser spectroscopy and photo-induced charge-transfer (“harpooning”) reactions.
CHRISTOPHER O. IKEDIIOBI, PH.D.; FAIC; CPC

Professor  
Phone: (850) 599-8422 | Email: christopher.ikediobi@famu.edu

EDUCATION: Ph.D., Iowa State University

RESEARCH INTERESTS/AREAS OF EXPERTISE:  
Our research interest is in the general area of bioorganic chemistry which explores the organic chemical basis of biological/biochemical reactions and interactions. Specifically, we are interested in the synthesis and biological evaluations of small – molecular weight allylic alcohols that have the potential to attract disease – causing mosquitoes. These compounds can thus be used as baits in mosquito traps which are useful in mosquito control and surveillance programs. The work involves synthesis of analogs of 1-octen-3-ol in which the chain length, position of the double bond and position of the hydroxyl group are manipulated.

Enantiomers of chiral analogs are resolved and pure enantiomers tested for biological activities under laboratory and field conditions using the mosquito olfactometer and MMX traps, respectively. Our aim is to ultimately isolate the receptor protein responsible for olfaction in mosquitoes, carry out binding and molecular modeling studies and gain better understanding of the organic structural requirements for mosquito attraction.

NGOZI UGOCHUKWU, PH.D.

Professor And Chair, Department of Chemistry  
118 Fred Humphries Science Research Building | 219 Jones Hall, Tallahassee, FL 32307  
Phone: (850) 412-7124 | Email: ngozi.ugochukwu@famu.edu

EDUCATION: Ph.D., Biochemistry, University of Benin, Benin City

RESEARCH INTERESTS/AREAS OF EXPERTISE:  
Biochemical education, diabetes/obesity research: drug discovery; caloric restriction, pharmaco/nutrigenomics of bioactive food components in chronic diseases (colon cancer; congestive heart disease), environmental biochemistry research.
NELLY N. MATEEVA, PH.D.
2010 FAMU Emerging Researcher Award Recipient

Associate Professor
FAMU Department of Chemistry
Room 223, Jones Hall
Tallahassee, FL 32307
(850) 412-5662; Nelly.mateeva@famu.edu

EDUCATION: Ph.D., Analytical/Organic Chemistry, Sofia State University (Bulgaria)

RESEARCH INTERESTS/AREAS OF EXPERTISE:
- Drug design and discovery:
- Synthetic and natural flavonoids as anti-cancer agents and HIV-integrase inhibitors
- Amyloid fibrillation inhibitors -Biodegradable polymers
- Electrospun nanofibers
- Drug delivery systems
- Extraction and concentration tools for chemical and biological toxins

Dr. Mateeva (with plate in hand) and her research team of graduate students: Shihab Deiab (far left), along with Alexander Foster and Ling Wang (to Dr. Mateeva’s right) discuss the properties of the polyaniline/chitosane electrospun fibers within a product from an electrospinning experiment just taken from an electrospinner chamber. What tests now need to be done, how to analyze and characterize them, as well as further developments of this project...somewhat similar to other disciplines represented in this FAMU Research Statement of Capabilities.
CLEMENT ALLEN, PH.D. (CIS FACULTY)

Student Facilitation
Associate Professor
310A
(850) 412-7359
(850) 599-3221
clement.allen@famu.edu

EDUCATION: Ph.D. in Computer Science from the University of Alabama at Birmingham

FAMU CENTER FOR SECURE COMPUTING AND INFORMATION ASSURANCE (FCSCIA)

CURRENT RESEARCH

Information Assurance (IA) Education Topics: Active Learning Approaches to IA Education, Cross-disciplinary IA Concentration, Designing IA Laboratory Exercises

COMPUTER FORENSICS TOPICS:
Digital Forensic Tools for Mobile Device
Digital Forensic Tools for Identifying Fake Pictures (Stenography)

PRESENTATIONS/PROJECTS/PUBLICATIONS:


(2011) Crystal Williams - Project Title: Digital Forensics Tools for Identifying Fake Pictures (Stenography)
(2009) TaCoria Jones - Project Title: Tools for Identifying Doctored Images
**Browser Security Topics:**
- Browser Extensions for Security Vulnerabilities
- Smart Trusted Indicators for Browsers (STIB)

**Research and Publications:**
- Poster Presentation at ADMI 2009 (Won 1st Place)

**Honeypots Topics:**
- Cyber Threat Analysis for University Networks via Virtual Honeypots

**Research and Publications:**

**Secure Software Topics:**
- Teaching Secure Coding to STEM Students
- Designing Smart Alumni Systems

**Research and Publications:**
- Indira Gandham (M.S., Graduate: Fall 2011)
  - Thesis Title: A Framework for Designing Smart Alumni Systems
  - Paper Presentation at ADMI 2011
- John Brown, Jr. (M.S., Exp. Graduate: Summer 2012)
  - Thesis Title: A Framework for Teaching Secure Coding to STEM students

**Cloud Computing Topics:**
- Parallel Computing in Cloud Environments

**Research and Publications:**
- (2011) Robert Dunn - Project Title: Parallel Computing in Cloud Environments

**Database Security Topics:**
- Database Security in Social Networking Environments

**Research and Publications:**
- (2011) Alex Mack
  - Project Title: Database Security in Social Networking Environments

**Virtualization Topics:**
- Virtualization Tools for STEM educators

**Research/Publications:**

*Pictured above: CIS Professors Edward Jones, Ph.D., (at lectern) FAMU Chair, Department of CIS announces a National Science Foundation grant with other FAMU CIS faculty (L-R) Clement Allen, Ph.D., and Jason Black, Ph.D.*
Owen Watson prepares for a demonstration of the Chiara robot. Owen is now working on a master’s degree in Robotics at the University of South Florida, Tampa.
VASILE LAURIC, PH.D.

Associate Professor
FAMU Dept. of Mathematics
Phone: (850) 412-5234 | Email: vasile.lauric@famu.edu

EDUCATION: Ph.D. in Mathematics, Functional Analysis/Operator Theory, Texas A&M University, College Station, Texas

RESEARCH INTERESTS/AREAS OF EXPERTISE: Operators on Hilbert space (structure, spectral theory), Orthogonal Polynomials on ellipses and band matrices, Special classes of operators (subnormals, hyponormals related), a-Commutativity with a nonzero compact.

Topography with Adam Hurdle, Dr. Vasile Lauric, Quesley Daniel, and Bruce Hardaway

K BENESH BLAYNEH, PH.D.

Associate Professor
FAMU Department of Mathematics
Room 304 | Tallahassee, FL 32307
Phone: (850) 412-5228 | Fax: (850) 599-8567 | Email: kbenesh.blayneh@famu.edu

EDUCATION: Ph.D., Applied Mathematics, University of Arizona, Tucson, AZ

RESEARCH INTERESTS/AREAS OF EXPERTISE: Mathematical Biology

Group photo of participants includes FAMU Mathematics Professor, Dr. Kbenesh Blayneh (in white shorts) at the National Institute for Mathematical and Biological Synthesis (NIMBioS) Investigative Workshop on Malaria Modeling and Control. Photo courtesy of NIMBioS

DESMOND STEPHENS, PH.D.

Associate Professor of Mathematics
314 Jackson-Davis Hall | Tallahassee, FL 32307
Phone: 1 850-412-5238 | Fax: 1 850-599-8567 | Email: desmond.stephens@famu.edu

EDUCATION: Florida Institute of Technology, Applied Mathematics, Ph.D.

RESEARCH INTERESTS/AREAS OF EXPERTISE: Calculus sequence, linear algebra and engineering mathematics.
ROSELYN E. WILLIAMS, PH.D.

Associate Professor  
FAMU Department of Mathematics  
Jackson-Davis Bldg. 403  
Tallahassee, FL  32307  
Phone: (850) 412-5236  
Fax: (850) 599-8571  
Email: roselyn.williams@famu.edu

EDUCATION: Ph.D., Florida State University, Tallahassee, FL, Mathematics

RESEARCH INTERESTS/AREAS OF EXPERTISE:  
Hopf Algebras, representation theory, number theory.

Dr. Williams (far right corner smiling in white), is in research heaven when she’s enhancing diversity in graduate education (particularly in mathematics) for women. Here, at FAMU, she organized the 2011 EDGE for Women Program which included: 16 female, graduate, mathematical sciences students, as well as four instructors, and three mentors from colleges and universities around the country.

DEPARTMENT OF PHYSICS

CHARLES A. WEATHERFORD, PH.D.
2011 FAMU Distinguished Researcher Award

Professor and Chairman,  
Department of Physics and Director, FAMU Center for Plasma Science and Technology (CePAST)  
Tallahassee, FL 32307  
Telephone: (850) 599-3767  
Telefax: (850) 599-3577  
charles.weatherford@famu.edu

EDUCATION: Ph.D., Physics, Louisiana State University, Baton Rouge

RESEARCH INTERESTS/AREAS OF EXPERTISE:  
Computational atomic and molecular physics, chemistry, materials science, and plasma physics; Scattering theory—electron/positron-molecule, atom-ion charge exchange; Laser interactions with molecules and materials; quantum control; New methods to calculate many-body wave functions with a particular emphasis on electron correlations.

Spheromak diagnostics platform and capacitor banks. FAMU Department of Physics featuring CePAST Personnel. Bottom, from left to right—Brandon Alexander (Lead Technician), James Titus (physics graduate student); Top left to right—Sidney Williams (physics undergraduate student), Kyron Williams (physics faculty), and Charles Weatherford (physics faculty and CePAST director).
LEWIS E. JOHNSON, PH.D.
2012 FAMU Research Excellence Award Recipient

Associate Professor of Physics
Center for Plasma Science and Technology (CePaST)
Florida A&M University
2077 E. Paul Dirac Drive
Tallahassee, FL 32310
Phone: (850) 599-3943
Fax: (850) 599-3901
Email: lewis.johnson@famu.edu

EDUCATION: Ph.D., Physics, Duke University, Durham, NC

RESEARCH INTERESTS/AREAS OF EXPERTISE: Laser-Induced Breakdown Spectroscopy (LIBS): Plasma Physics and Applications; LIDAR and Active Laser Based Standoff Sensor Systems; Free Electron Lasers and Synchrotron Radiation Sources: Development and Applications; X-ray Spectromicroscopy; Extreme Ultraviolet and Advanced Lithography; and Physics Education.

BIDHAN C. SAHA, PH.D.
2012 FAMU Distinguished Researcher Award Recipient

Professor, FAMU Department of Physics
Director, Physics Graduate Committee
Co-PI, National Science Foundation, CREST Center for Astrophysical Science and Technology (CePaST)
301-B Science Research Center
Direct: (850) 599-3768
Lab: (850) 599-8381
Bidhan.saha@famu.edu

EDUCATION: Ph.D., Physics, Calcutta University, India

RESEARCH INTERESTS/AREAS OF EXPERTISE: Theoretical and Computational Atomic and Molecular Physics (AMP) My current research, being at the interface of AMP with astrophysics, needs very accurate and complete AMP data to facilitate reliable interpretation and modeling of astronomical observations. Employing the quantum-mechanical prescriptions we investigate a wide range of problems in quantum collision theory. His research includes the investigation of charge transfer due to ion-atom and ion-molecule collisions for wide energy range. We are evaluating a comprehensive set of total and state-selective charge transfer data for important reactions relevant to the astrophysical modeling.
MARK A. JACK, PH.D.
Associate Professor  
FAMU Department of Physics  FH-SRC  301C  
Tallahassee, FL 32307  
Phone: 850-599-8457  Fax: 850-599-3577  
E-mail: mark.jack@famu.edu

EDUCATION: Ph.D., Humboldt-Universität zu Berlin, Berlin, Germany, Theoretical Physics

RESEARCH INTERESTS/AREAS OF EXPERTISE: Electrons on a curved manifold: Electronic and optical properties of nanoscale toroidal quantum ring structures. Project with Mario Encinosa (FAMU). Electron-phonon coupling of low-energy phonon modes in carbon nanodevices. Project with Michael J. Leamy (Georgia Institute of Technology) and Mario Encinosa (FAMU). Metamaterials and Quantum control theory: Manipulation of optical excitations and transitions in carbon nanotube rings. Project with Mario Encinosa (FAMU). Theory of exciton generation, charge separation and charge transport in organic photovoltaic cells and related biological systems and materials. Project with Jesse Edwards (FAMU), Ray O’Neal (FAMU) and Reginald Parker (510nano inc.).

CAROL Y. SCARLETT, PH.D.
Assistant Professor  
Astro/Particle Physics  
National High Magnetic Field Lab. Room 340  
Jones Hall, Room 111-F  
Phone: (850) 599-3470;  
Email: carol.scarlett@famu.edu

EDUCATION: Ph.D., Physics, University of Michigan

RESEARCH INTERESTS/AREAS OF EXPERTISE: Exotic Particles (Dark Matter/Energy), Beta Decay (Related to solar evolution).
Dr. Akpovo is inspecting the inside of a femtosecond four-pass amplifier for damaged optics.

FAMU's team (above), led by Prof. Jim Zheng (center), Department of Electrical and Computer Engineering with Prof. Eric Kalu (left), Department of Chemical and Biomedical Engineering and Prof. Mark Weatherspoon (right), Department of Electrical and Computer Engineering, has focused its research on energy storage. (excerpted from FAMU-FSU College of Engineering Research Report)

The Future Renewable Electric Energy Delivery and Management (FREEDM) Systems Center, headquartered on North Carolina State University’s Centennial Campus, is one of the latest Gen-III Engineering Research Centers (ERC) established by the National Science Foundation in 2008. The FREEDM Systems Center will partner with universities, industry, and national laboratories in 28 states and nine countries to develop technology to revolutionize the nation’s power grid and speed renewable electric-energy technologies into every home and business. The center is supported by an initial five-year, $18.5 million grant from National Science Foundation (NSF) (award #0812121, Division of Engineering Education and Centers) with an additional $10 million in institutional support and industry membership fees.

The Center’s core United States universities are Florida A&M University (FAMU), North Carolina State University (NCSU), Arizona State University (ASU), Florida State University (FSU), and Missouri University of Science and Technology (MUST). The Center’s core international universities are RWTH Aachen University in Germany and the Swiss Federal Institute of Technology in Switzerland. A large number of utility companies, electrical equipment manufacturers, alternative energy start-ups, and other established and emerging firms are part of this global partnership. http://www.freedm.ncsu.edu/
SUBRAMANIAN RAMAKRISHNAN, PH.D.
2011 FAMU Emerging Researcher Award Recipient

Associate Professor
Department of Chemical and Biomedical Engineering
FAMU-FSU College of Engineering
2525 Pottsdam Street, A131, Tallahassee, FL 32301
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E-mail: subramanian.ramakrishnan@famu.edu

EDUCATION: Ph.D., Chemical Engineering, University of Illinois at Urbana-Champaign

RESEARCH INTERESTS/AREAS OF EXPERTISE: Group focus on understanding the physics, chemistry and the processing of complex fluids with the aim of producing useful materials for engineering applications.

CARL A. MOORE, JR., PH.D.

Associate Professor
Department of Mechanical Engineering
FAMU-FSU College of Engineering
2525 Pottsdam St., B373A
Tallahassee, FL 32301
Phone: (850) 410-6367
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Fax: (850) 410-6337
Email: Carl.moore@famu.edu

EDUCATION: Ph.D., Mechanical Engineering, Northwestern University

RESEARCH INTERESTS/AREAS OF EXPERTISE: Robotics, Design and Control of Intelligent Machines, Human-Robot Interaction, Haptic interface design and control and teleoperation.

MARK H. WEATHERSPOON, PH.D.

Associate Professor
Department of Electrical and Computer Engineering
Phone: (850) 410-6442 | Email: Mark.weatherspoon@famu.edu

Education: Ph.D., University Of South Florida

RESEARCH INTERESTS/AREAS OF EXPERTISE: Modeling of active devices using artificial neural networks, Uncertainty analysis using Monte Carlo simulations, Modeling of bioluminescence in dinoflagellate organisms for mitigation, Microwave and millimeter-wave measurements, Noise and noise temperature measurement and modeling, Microwave and millimeter-wave circuit design.
REGINALD J. PERRY, PH.D.

Professor & Associate Dean for Student Affairs and Curriculum
(850) 410-6465 or 410-6423; Reginald.perry@famu.edu

EDUCATION: Ph.D., Electrical Engineering, Georgia Institute of Technology

RESEARCH INTERESTS/AREAS OF EXPERTISE: Include rapid prototyping using field-programmable logic devices, CMOS based optoelectronics, and engineering education. Since 1999, he has been a co-PI and the project director for the Florida A&M University-Undergraduate Program project. This project, sponsored by the National Science Foundation, is designed to better prepare science, technology, engineering, and mathematics (STEM) students for advanced degrees in the STEM fields.

PRIMUS “AKWANZA” MTENGA, PH.D.

Associate Professor
Department of Civil and Environmental Engineering Director, Structural Mechanics Laboratory
Phone: (850) 410-6130 | Email: Primus.mtenga@famu.edu

EDUCATION: Ph.D., Civil Engineering, University of Wisconsin-Madison

RESEARCH INTERESTS/AREAS OF EXPERTISE: Application of Non-Destructive Evaluation (NDE) in structural condition assessments; structural systems performance and reliability, wood structures and bio-composites; forensic and diagnostics engineering, bio-composites, engineering mechanics, and decision support systems. He’s a structural/materials engineer specialized in structural condition assessment retrofit design and forensic engineering.

Professor Mtenga was also awarded the Fulbright Scholar grant for 2011-12 and is currently in Tanzania working with the University of Dar es Salaam.

DECATURE B. ROGERS, P.E., PH.D.

Executive Assistant to the President, STEM Programs

EDUCATION: Ph.D., Mechanical Engineering, Vanderbilt University

FAMU Pre-College STEM Programs facilitated:
• 2009 STEM Spring Academy for K – 5th grade youth (Sponsored by Shell Company)
• 2009 STEM Spring Institute for 6th – 8th grade youth (Sponsored by Shell Company)
• 2009 STEM Summer Academy for K – 5th grade youth (Sponsored by Shell Company)
• 2009 STEM Summer Institute for 6th – 8th grade youth (Sponsored by Shell Company)
• 2009 STEM Bound Summer Program for 9th – 12th youth (Sponsored by from St. James AME Church and FAMU Industrial Cluster Members)
• 2009 Engineering Concept Institute for high school graduates who are accepted to FAMU Engineering (Sponsored by Boeing)
EGWU E. KALU, PH.D.
Associate Professor of Chemical and Biomedical Engineering

Education: Ph.D., Texas A&M University

Awarded a Fulbright Scholar grant to lecture and conduct research at Covenant University, Ota in Nigeria during the 2010-2011 academic year. Kalu conducted research in collaboration with Covenant University Faculty colleagues in renewable energy systems by investigating the development of a continuous reactor and catalyst system for the production of biodiesel.

CLAYTON CLARK, II, PH.D.
Civil and Environmental Engineering
clayton.clarkii@famu.edu

RESEARCH INTERESTS/AREAS OF EXPERTISE: Economically beneficial methods of safely reducing waste volume from contaminated sites, hazardous volume reduction by chemical and physical treatment processes, treatment of wastes focusing on degradation of recalcitrant wastes to less hazardous forms, sonichemical degradation, and dechlorination by iron and other metallic substrates.
The Institute for Building Sciences endeavors to foster excellence in scholarly inquiry, research, and service activities that increase knowledge, enhance the environment, and serve mankind. Within these broad goals and in the spirit of academic freedom, the Institute encourages all initiatives of the faculty without regard to topic, philosophical orientation, or potential for external funding necessarily.

- The Institute for Building Sciences is the point of coordination for all research, continuing education, and public service activities of the School of Architecture (SoA) at Florida A&M University (FAMU).
- Before any proposal is submitted for review by anyone outside the School of Architecture, it must be submitted to the Institute for internal review and approval. All research proposals that are to be submitted for external funding must also be reviewed and approved by the FAMU Division of Sponsored Research. All proposals to conduct continuing education activities must also be submitted to the FAMU Division of Continuing Education for review and approval.
- All proposals, whether for research, continuing education, or service, and regardless of funding amount or source, are reviewed by the Director of the Institute and the Dean of the School of Architecture for compliance with the following criteria:
  - Compliance with University rules and procedures.
  - Ability to be completed in an exemplary manner within the proposed time and budget.
  - Consistency with the mission of the School.
  - Compliance with professional practice limitations.
  - Possible unfair competition with the profession.
  - Potential conflict of interest.
  - Potential for educational involvement of students.
  - Potential risks and liability for the School.
  - Faculty are encouraged to pursue their intellectual interests and to apply or increase their skills and abilities throughout all areas of the discipline, without regard to any particular philosophy or doctrine. Therefore, no proposals are reviewed or screened on any basis other than the criteria listed above.

RESEARCH AWARDS: 2011 GREAT MINDS IN STEM TECHNICAL POSTER COMPETITION

Electronic Engineering Technology (EET) student Alicia Oliver won Second Place and a $600 prize in the 2011 Great Minds in STEM Technical Poster Competition. Ms. Oliver presented research in the area of electromagnetism and its effects in plants. EET student Zachariah Blackmon also presented on Two Color CMOS based signal detector research in the optoelectronic field. Although he did not place, his poster was among the best in the competition. In order to be invited to present, each abstract and poster had to first be reviewed by a minimum of two STEM professionals based on two principles — Intellectual Merit and Broader Impact — as described in the National Science Foundation Strategic Plan for FY 2006-2011: Investing in America’s Future (NSF 06-48). Both students are conducting their research with Antonio Soares.

“Systematic research is a fundamental complement to advanced study.”
WILL GUZMÁN, PH.D.

Assistant Professor, History & African-American Studies Department
Associate Director, Meek-Eaton Southeastern Black Archives, Research Center, & Museum
Director, Office of Black Diasporan Culture (OBDC)
Black Archives/Museum, Room 129
850-599-3020
will.guzman@famu.edu
www.famu.edu

EDUCATION: Ph.D. - History, University of Texas at El Paso


KAWACHI A. CLEMONS, PH.D.

Assistant Professor of Music & Director
FAMU Institute for Research in Music & Entertainment Industry Studies
(850) 599-8540 office (850) 561-2399 fax
kawachi.clemons@famu.edu

The Florida A&M University Institute for Research in Music and Entertainment Industry Studies (IRMEIS) was created to assess the current and future state of popular music in America through the development of innovative student-centered programming and research.

The Institute’s research and academic arm focuses on popular music in its historical, cultural, and aesthetic domains and its linkages to other artistic forms of representation. While the Institute promotes scholarly inquiry in all world musics, its core research centers on Black popular music of the Americas.

EDUCATION: Ph.D., University of North Carolina at Chapel Hill


Dr. Clemons works with journalism students to help produce a pilot show for a series that will tell the candid stories of the individuals/groups that created and developed the art form known as hip hop. The first guest was rapper/actor Big Daddy Kane.
FAMU students are mentored by administrators and faculty to study abroad in order to further enhance their global research experiences (in countries including Accra, Ghana, West Africa, for example), through short-term language and cultural immersion; they complete a research project led by a FAMU faculty member.

Keith C. Simmonds, Ph.D., Principal Investigator and Director/Assistant Dean, College of Arts and Sciences and Professor, Political Science

Gary Paul, Ph.D., Co-Principal Investigator and Professor, Political Science

Ms. Erika Hill, CGSIA Program Director

Vision: Broaden exposure, deepen understanding and expand the pool of qualified minority and women for significant employment in the Intelligence Community.

Mission: To provide students and faculty exposure to national intelligence interests and, in the process, motivate students and faculty to become interested in conducting research relevant to the IC.

Who We Are: Funded by a grant awarded by the Office of the Director of National Intelligence, we have been designated an Intelligence Community (IC) Center for Academic Excellence. Our two-fold mission is to ensure that Florida A&M University develops and implements a competitive program in global security and international affairs, while assisting to diversify the intelligence workforce with eligible applicants who possess critical core skills. Two major programmatic elements of the Center are the IC Scholars Program and the Certificate/Minor in Global Security.
Transforming Phenomena into Reality: It's a Total Transcendence
“Moving from Bench to Bedside”

I. COLLEGE OF ARTS AND SCIENCES ........................................ (850) 599-3430/3431

II. COLLEGE OF EDUCATION ................................................ (850) 561-2989
    or (850) 599-3482/3483

III. COLLEGE OF AGRICULTURE AND FOOD SCIENCES .......... (850) 561-2644

IV. COLLEGE OF PHARMACY AND PHARMACEUTICAL SCIENCES .. (850) 599-3301

V. FAMU–FSU COLLEGE OF ENGINEERING .............................. (850) 410-6161

VI. SCHOOL OF ALLIED HEALTH SCIENCES .............................. (850) 599-3818

VII. SCHOOL OF ARCHITECTURE ............................................ (850) 599-3244

VIII. SCHOOL OF BUSINESS AND INDUSTRY .......................... (850) 599-3565

IX. SCHOOL OF GRADUATE STUDIES AND RESEARCH ............... (850) 599-3505/3315

X. SCHOOL OF JOURNALISM AND GRAPHIC COMMUNICATION ...... (850) 599-3379/3387

XI. SCHOOL OF NURSING ..................................................... (850) 599-3017

XII. SCHOOL OF THE ENVIRONMENT ..................................... (850) 599-3550

XIII. COLLEGE OF LAW ....................................................... (407) 254-3268
      (ORLANDO, FL)

DIVISION OF RESEARCH

OFFICE OF THE VICE PRESIDENT FOR RESEARCH ..................... (850) 412-5102

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    AND COMMERCIALIZATION .............................................. (850) 412-7232

SCHOOL OF GRADUATE STUDIES AND RESEARCH .................... (850) 599-3505
FAMU students gain state-of-the-moment experiences in diverse laboratories.

**Today, allow no excuses, just do the work. Go create success!**
- Sharon Frame

**Failure is just another opportunity to more intelligently begin again.**
- Henry Ford

**Ninety-nine percent of all failures come from people who have a habit of making excuses.**
- George Washington Carver

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Historic Lee Hall at twilight stands symbolic, diagonal from the perpetual illumination of the Eternal Flame in the FAMU Quadrangle.

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