

SOUTHERN UNIVERSITY AND A&M COLLEGE

Office of Sponsored Programs

***Annual
Grants Newsbrief***

**Fiscal Year
2012-13**

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Message from the Director

THE OSP IS COMMITTED TO ASSISTING RESEARCHERS IN THEIR QUEST TO SECURE FUNDING TO CONDUCT RESEARCH IN THEIR AREAS OF INTEREST. OSP IS EMBRACING THE FOLLOWING QUOTES TO PROMOTE A SUCCESSFUL YEAR IN RESEARCH AND TO REAFFIRM OUR NEED FOR EACH OTHER.

COMING TOGETHER IS A BEGINNING.

KEEPING TOGETHER IS PROGRESS.

WORKING TOGETHER IS SUCCESS. **HENRY FORD**

THE INTERNET DIDN'T GET INVENTED ON ITS OWN. GOVERNMENT RESEARCH CREATED THE INTERNET SO THAT ALL THE COMPANIES COULD MAKE MONEY OFF THE INTERNET. THE POINT IS, WHEN WE SUCCEED, WE SUCCEED BECAUSE OF OUR INDIVIDUAL INITIATIVE, BUT ALSO BECAUSE WE DO THINGS TOGETHER. **BARACK OBAMA**

IT TURNS OUT THAT ADVANCING EQUAL OPPORTUNITY AND **ECONOMIC EMPOWERMENT** IS BOTH MORALLY RIGHT AND GOOD ECONOMICS, BECAUSE DISCRIMINATION, POVERTY AND IGNORANCE RESTRICT GROWTH, WHILE **INVESTMENTS IN EDUCATION, INFRASTRUCTURE AND SCIENTIFIC AND TECHNOLOGICAL RESEARCH** INCREASE IT, CREATING MORE GOOD JOBS AND NEW WEALTH FOR ALL OF US. **WILLIAM J. CLINTON**

GOVERNMENTS WILL ALWAYS PLAY A HUGE PART IN SOLVING BIG PROBLEMS. THEY SET PUBLIC POLICY AND ARE UNIQUELY ABLE TO PROVIDE THE RESOURCES TO MAKE SURE SOLUTIONS REACH EVERYONE WHO NEEDS THEM. THEY ALSO FUND **BASIC RESEARCH**, WHICH IS A CRUCIAL COMPONENT OF THE INNOVATION THAT IMPROVES LIFE FOR EVERYONE. **BILL GATES**

RESEARCH IS TO SEE WHAT EVERYBODY ELSE HAS SEEN, AND TO THINK WHAT NOBODY ELSE HAS THOUGHT. RESEARCH IS FOUR THINGS: **BRAINS** WITH WHICH TO THINK, **EYES** WITH WHICH TO SEE, **MACHINES** WITH WHICH TO MEASURE AND, FOURTH, **MONEY**. **ALBERT SZENT-GYORGYI**

A GREAT YEAR IS BEFORE US, DESPITE OUR CHALLENGES!! LET'S WORK TOGETHER!

Norma J. Lemond-Frank

DIRECTOR



The JAGS in AG: Recruitment, Exploration, and Retention project is designed to increase the number of minority students at the collegiate level in Food and Agricultural Sciences (FAS) using innovative approaches to address academic inadequacies of students, allowing them an opportunity to pursue degrees in FAS disciplines. This project will address two objectives: (1) strengthen relationships with public school officials, inclusive of guidance counselors, alumni organizations, college recruiters, and community leaders and (2) enhance college student participants' experiential learning opportunities in research and extension. JAGS in AG will provide experiential learning activities for freshman and sophomore college students in an attempt to expose them to careers in FAS. JAGS in AG will train students in research, experimentation methods, and outreach using current and relevant research from a "community based" and "campus based" approach.



This project will also provide training and learning opportunities to public school officials inclusive of guidance counselors, college recruiters, alumni organizations and community leaders, to enhance their understanding of FAS programs and opportunities at the undergraduate level, the graduate school level and career opportunities upon graduation from college. Through this process we will achieve our principal goal in helping build leaders and productive citizens over the next five to ten years, fulfilling the need of minorities in Food and Agricultural Sciences.

A one day workshop was organized and conducted on the campus of Southern University Baton Rouge for a group of 35 high school guidance counselors, college recruiters, alumni organizations and community leaders to increase the awareness and knowledge of careers in FAS. Some special features of the workshop included discussions of new and emerging career opportunities for graduates with degrees in FAS; academic programs in FAS; requirements for admission to college; and the application process of student financial aid and scholarships available within and external to the university. As part of the workshop, participants visited classroom teaching sites and research laboratories to see firsthand what students will be exposed to as they pursue their degrees. Upon completion of the workshop, participants received Apple iPads uploaded with tools needed to recruit students to Southern University in the field of FAS.

Fourteen students have been selected to participate in the JAGS in AG: Recruitment, Exploration, and Retention Program. As a program participant, students will be provided a stipend of \$1,000 for each spring and fall semesters. Students will be required to maintain a minimum cumulative grade point average of 2.5. Student participants will take part in existing research and extension projects at the Southern University Agricultural Research and Extension Center (SU Ag Center). Participants will remain eligible for this award annually, if all requirements are met. Each student project team (two or more students) will have a research or extension mentor. Teams of recruits will be assigned to mentors based on interest inclusive of climate change, childhood obesity, global food security and hunger, apparel merchandising, food safety, sustainable bioenergy, community and economic development, entrepreneurship, family life, leadership and child development. This team-mentoring approach will demonstrate to participants how research and extension based problems are generally solved using a multi-disciplinary approach. Student participants will conduct assigned activities under the auspices of their mentor with the expectations they will be required to present their work as part of a presentation, oral or poster, at the end of their project period during a Campus Annual Ag Day.

For more information, visit www.jagsinag.org

State Homeland Security Program

by Lt. Joycelyn Johnson

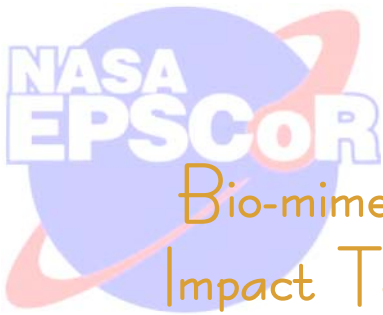
The Southern University Police Department (SUPD) has been under the leadership of Chief Ronald Stevens since October of 2011. Chief Stevens came into the department and made some much needed changes. One of the changes included the assigning of Lt. Joycelyn Johnson as the Grant Coordinator. Lt. Johnson gladly accepted the assignment and went right to work looking for funding opportunities. Lt. Johnson thought of the things that the department needed most, which was Equipment. The first proposal Lt. Johnson applied for was to the La Governor's Office of Homeland Security. The Governor's Office of Homeland Security and Emergency Preparedness awarded Lt. Johnsons' proposal request of \$25,000.00.

The Southern University Police Department is responsible for response and recovery of the students, faculty and staff at Southern University. The purchase of the equipment is vital to the response and recovery of the SUPD. The Mississippi River which is located on the Bluffs of Southern University has posed problems for the police department in the past. The rivers water levels have been so high that an overflow of water has caused for roads to be blocked and an alternative route for traffic had to be created. This posed a problem for the SUPD in responding to the needs of the SU Community. Officers had to drive off campus and enter the North side, residential area to respond to calls on the north end of the campus.

Lt. Johnson was very pleased with the funding in part, to this particular incident. "I am so excited about the funding of the proposal we submitted. This allows the Police Officers to respond to incidents by means other than the Patrol Unit. Officers can respond to calls for service, and transport equipment and necessities when certain conditions won't allow for a Patrol Unit. We now have the capabilities to go down on the bluff and monitor the area whereas before we had to walk down when there was a need." The equipment the department purchased consisted of: 2 All Terrain Units, 1 Light Tower and a 25K generator. The 25K generator is the best equipment that the department has ever purchased. The generator will allow the SUPD to maintain its full operational capabilities in the event of a power outage. Lt. Johnson did not want to take full credit of the award." I did not do this alone, it took the input of Chief Stevens, the crunching of numbers from Mr. Kevin Johnson and the writing of my magical pen to make this happen."



L-R: Sgt. K. Guy, Lt. Joycelyn Johnson & Cpl. Q. Merrett



Bio-mimetic Self-healing Composite Sandwich for Impact Tolerant NextGen Aerospace Structures

by Dr. Samuel Ibekwe

Research Accomplishments Measured against the Proposed Goals & Objectives

"Bio-mimetic Self-healing Composite Sandwich for Impact Tolerant NextGen Aerospace Structures" is a \$1.4m NASA-BOR EPSCoR funded project that brought together researchers from Louisiana State University (LSU) and Southern University (SU) Baton Rouge with support from NASA researchers at a variety of centers, and industries. This collaborative project engaged a diversified team that combined experienced faculty with young researchers, including both minority and female faculty, to provide a mentoring relationship designed to build research capacity at both institutions and bring the younger team members into prominence. This project with Dr. John P. Weifel as the NASA-BOR EPSCoR director, Dr. Guoqiang Li as the LSU Science and Institutional PI, and Dr. Sam Ibekwe as the SU PI, was developed after 'seed' support provided by Space Grant and EPSCoR and is a natural evolution from these programs.



Dr. Sam Ibekwe (middle) with post doc, Dr. Meng (far right) explaining fabrication process to graduate and undergraduate research assistants.

The goals of this three-year NASA/EPSCoR project are to provide NASA with more durable/reliable/lighter/safer/smarter composite sandwich structures, create knowledge and develop enabling technology in self-healing composite materials/structures, and enhance related research infrastructure and workforce training at LSU and SU. The research objectives are to understand constitutive behavior of shape memory polymer (SMP) fibers programmed by cold-drawing and strain hardening, sensing and self-healing mechanisms of multifunctional SMP based syntactic foam, and impact response and self-healing efficiency of smart hybrid sandwich panel.

The educational objective is to develop a “research-oriented approach” designed to attract and retain a greater number of high caliber students, including minority students, in Science, Technology, Engineering, and Mathematics (STEM) disciplines, and to provide a well-trained workforce for Louisiana and for NASA and related industries.



Southern University NASA-BOR/EPSCoR Team members at NASA Kennedy Space Center.
Left to Right: Dr. Sam Ibekwe (faculty), Mr. Thomas Willis (student), Ms. D’Nealian Butler (student), Mr. Chiedu Odita (student), and Dr. Emmanuel Nzewi (faculty).

Southern University team consists of three faculty members, Drs. Sam Ibekwe, Guoqiang Li, and Zhenyu Ouyang, a postdoctoral research fellow, Dr. Harper Meng, several graduate and undergraduate students. The project is in its third year now and the team has recorded some successes in all the objectives and goals here at Southern University. The research achievements have been reported by several media such as “Chemistry World”, “The UK’s Innovation Agency”, and “Louisiana State University News.” Several research papers have been published in reputed journals with the impact factor ranging from 2.024 to 6.101. Four papers have been selected as the feature articles of particular interest. One of the papers titled “A review of stimuli-responsive polymers for smart textile applications,” was ranked as the most read article in “Smart Materials and Structures, Institute of Physics, UK”. A patent has been filed from the result of the research work so far.



Southern University team with some of the International Space Station payloads behind them at NASA Kennedy Space Center, Florida

Eleven undergraduate students, consisting of 7 males and 4 females, supported on this grant have made a total of 8 undergraduate poster presentations so far at various conferences. Some of them have interned at the following corporations: Exxon-Mobil, Dow, Toyota USA, Entergy, Johnson & Johnson, BASF. Four of these students have graduated, and received their bachelor's degrees. One is pursuing her master's degree program while the other 3 are employed by the companies they interned with. Six graduate students, consisting of 4 males and 2 females, are receiving graduate research assistantships from the grant that is enabling them to participate in the research project. A graduate student has graduated with M.S. in Engineering after completing a thesis that resulted in journal publication. He is now employed by Baker Hughes Corporation. In addition to journal papers published by the faculty members and postdoc, 8 conference proceedings and presentations at international conferences have resulted from their work on this project. Last Spring, the team received \$0.5m grant from the Department of Army to further work on the subject of this project.

The team is continuing work on developing smart self-healing sandwich structure with a hybrid grid stiffened core – a shape memory polymer (SMP) fiber z-pinned, continuous carbon fiber reinforced polymer grid skeleton that is filled in with multifunctional SMP based syntactic foam. While we cannot control the incoming projectile and resulting impact damage, we can control the response of each cell to impact quasi-statically, simply because each cell has elastic boundary and is sufficiently small so that the elastic waves have enough time to reach and be reflected by the cell boundary several times. The educational goal of mentoring undergraduate and graduate students are equally continuing and progressing well on the project.



TRiO
UPWARD BOUND MATH·SCIENCE

Contributing Writers: Desiree Ephrom, Julius Turner and Timothy Williams

For many years, the Upward Bound TRiO Programs at Southern University have provided first generation students an opportunity at achieving the *American Dream* by way of services geared to secure high school graduation, college entry, and college graduation. At Southern University, these TRiO programs consist of the **Classic Upward Bound program** and the **Upward Bound Math and Science program**. These programs provide services that can help students improve academically and socially. Examples of those services include: ACT preparation, Core subject review and tutoring, six-week summer intensive enrichment program, cultural and educational tours, professional development, and mentoring. One program that is on the forefront of preparing the next generation of doctors, researchers, entrepreneurs, and scientists is the **Upward Bound Math and Science program**.

The Upward Bound Math and Science program at Southern University is a federally funded college preparatory program designed to strengthen the math and science skills of participating students. The goal of the program is to help students recognize and develop their potential to excel in math and science and to encourage them to pursue post-secondary degrees in math and science, and ultimately careers in the math and science profession. The program is led by Director Earl Lee, who has been devoted to preparing high school students for college and beyond. He has over forty years of service in Upward Bound.

PROGRAM STRUCTURE

The Upward Bound Math and Science program is a year round program of study and discovery for its participants. The academic year sessions are held on Saturdays on the campus of Southern University-Baton Rouge. Instruction is provided in various components such as core subject review, critical thinking and character development, and instructional workshops.

During the summer component, participants are exposed to the academic aspects of non-residential college life, with a full day of academic activities scheduled Monday through Friday. This summer's services included subject review in Math, Science, and English geared to prepare participants for the upcoming school year. In addition, comprehensive ACT review classes were given to participants to strengthen skills needed for ACT success. One final piece of the summer program was the **Special Projects** led by Tutor Mentors. These projects allowed participants to experience extracurricular activities such as dance, choir, drama, newsletter, and step.

WHAT'S SPECIAL ABOUT THE MATH AND SCIENCE PROGRAM?

Just like the other Math and Science programs throughout the United States, the program at Southern University provides services to its participants with the goal of increasing opportunities for high school graduation and eventual college graduation from a four year university. Some of those unique services include: visits by Project Advisors to participants at their respective high schools. These visits allow advisors to monitor participant academic and social performance and structure services around participant's needs. In addition, core tutoring is offered by the Math and Science program on a weekly basis and individualized tutoring is provided as needed.



UBMS participants Erick Clifford, Daidrian Thronton, Daniel Asberry, Aaron Clifford and Vernell Jackson pose for a photo at the Baton Rouge STEM Expo.

UBMS AT THE BATON ROUGE STEM EXPO

Upward Bound Math and Science participants had the opportunity to participate in the first ever **Baton Rouge STEM Expo** on Saturday, October 27, 2012. The event featured area middle school students presenting and competing in various STEM related projects. STEM is the acronym that stands for academic and career studies in **Science, Technology, Engineering, and Mathematics**.

At the STEM Expo, Upward Bound Math and Science participants had the opportunity to physically be part of many of the project demonstrations and gained a heightened sense of the wonderful and numerous job opportunities available in STEM disciplines.

GIVING BACK: A WAY TO SHOW APPRECIATION

In an effort to teach its participants the concept of community support, each year the Upward Bound Math and Science along with its sister program the **Classic Upward Bound program** actively participates in the annual American Heart Association Fundraising Drive. This fundraising year Upward Bound participants donated \$1,188.44 to the American Heart Association. Upward Bound was the highest contributor among all university departments and organizations.



Upward Bound Math and Science participants shown at the American Heart Association Heart Walk



Earl Lee, Director of UBMS, recognized by SWASAP for 40 years of service to TRIO.

COMMITMENT TO SERVICE

Mahatma Gandhi once said that *“the best way to find yourself is to lose yourself in the service of others.”* This is certainly a creed that is followed by Mr. Earl Lee, Director of the Southern University Upward Bound TRiO Math and Science Program. During the 2012 SWASAP (Southwest Association of Student Assistance Programs) Conference, Mr. Lee was awarded with the 40 year Service Award. This prestigious award is impressive since the TRiO programs collectively only began in 1964, proving that Mr. Lee has been a pillar of service since the beginning of the TRiO programs.

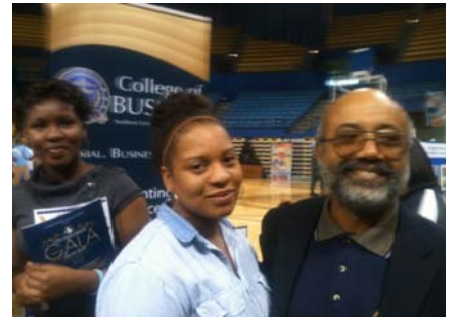


UBMS participants pictured with Wilson Fields, 19th Judicial Court Judge at the 2013 Honors Program

ACADEMICS FIRST

Upward Bound participants were recognized for their scholarly achievements by the Academic Honors Network of Baton Rouge, Louisiana during their “2013 Honors Program” on April 27, 2013. The event recognized students from area schools who had a 3.0 or higher grade point average. The honorees were presented with a certificate of recognition, and a t-shirt. Five hundred dollar book scholarships, an iPad, and special gift baskets from Cox Communications were also given as door prizes.

Upward Bound participants were afforded the opportunity to participate in the 2nd Annual Round Up on the Bluff, Southern University's high school senior and junior student recruitment day. The event, sponsored by the Office of Recruitment, attracted hundreds of potential new members of the Jaguar Nation from across the country!



UBMS participants Precious Gremillion and Danielle Edwards are pictured with Dean Andrews, Chair



Upward Bound participants engage in conversation with a tour guide from Prairie View A&M

HOUSTON...

DO YOU READ ME?

This summer the Upward Bound participants traveled to Houston, Texas on their annual ***College Tour and Cultural Excursion***. Participants were given an opportunity to enhance their cultural and academic awareness through college tours of Prairie View A&M University and Texas Southern University, the Museum of Natural Sciences, and the Houston Symphony. The participants were treated to a showing of the hit Broadway stage play *Wicked*.



UBMS participants admire the Foucault Pendulum at the Houston Museum of Natural Science.



UBMS participants study entomology questions at the Houston Museum of Natural Science.

COLLEGE IN SIGHT

Upon successfully completing high school, participants in the Upward Bound Math and Science program are given an opportunity to take part in the “Bridge Scholars” program at the host institution. This year, four participants accepted the opportunity to bridge with the Upward Bound Math and Science program and enrolled in summer classes at Southern University. Those Bridge Scholars were recognized for their hard work and dedication to achieving a college degree at the First Annual Lois F. St. Amant Bridge Student Dinner, named after the long-time director of the Upward Bound Program at Southern University. Danielle Edwards, who will be attending the University of Louisiana at Lafayette majoring in health care administration, said she “feels tremendously grateful and blessed to be a member of the Upward Bound family”. Her sentiments were echoed by parents and fellow students alike. When asked how the Upward Bound Math and Science program has impacted her, Precious Gremillion, who will be attending Southeastern Louisiana University majoring in chemistry, said “the program has helped me formulate and execute an after-high school plan that will enable my future success.”



Earl Lee, Director of the Upward Bound Math and Science program, places a TRIO Alumni stole on Calliegh Robins.



Members of the Upward Bound TRIO Bridge Scholar Class of 2013, with Rhonda Robinson, Director of Classic Upward Bound, and Earl Lee, Director of Upward Bound Math and Science

REESTABLISHING SUCCESS

The Center for Energy and Environmental Studies (CEES)

The Center for Energy and Environmental Studies (CEES) has reestablished itself as a premier self-funded entity for research and contracting opportunities, securing over twenty five million dollars in contracts and partnerships with various federal, state, and private agencies. The center was developed in 1986 with the purpose of promoting interdisciplinary research and coordinating environmental energy curricula development activities. CEES has served as a catalyst and foundation for the growth and development of contracting initiatives at the university, such as the DoD Mentor Protégé Program. The success of this program opened the door to today's contracting initiatives.

The Center is one of few centers at a Historically Black College and University to serve as prime contractor on three federal IDIQ contracts with the US Army Corps of Engineers and subcontractor on fifty plus contracts with agencies such as the US Air Force, US Navy, NASA, US Department of Agriculture, Nuclear Regulatory Commission and the Louisiana Department of Environmental Quality and Department of Health and Hospitals.

Recently, CEES established "The NEW Southern Laboratory Alliance" (SLA). This alliance is the Center's unique business initiative which provides total solutions to the environmental industry. With SLA, Southern University's capabilities and resources increase opportunities for government contracting in the environmental chemical arena. The laboratory capacity has increased from two analytical laboratories to over thirty different laboratories across the United States. This places Southern University in a position to provide environmental services across the country.

During the 2013-14 academic year, CEES plans to restore its partnerships with faculty across the university's five campuses. This outreach program is an effort to engage, reenergize, and expose, faculty researchers to contracting opportunities within the Center. In the past, CEES has engaged faculty and students to participate in research, training, summer fellowships, intern and coops from various disciplines throughout the campus. This collaboration also opens the door for faculty who are seeking assistance with program management of current projects.

Dr. Samuel Washington is at the helm of the Center's continued success. Mr. Ademola Oloko serves as the Fiscal and Resource Manager and Mrs. Deanna Smith is Program Manager for Contracts and Proposal Development. For more information regarding The Center for Energy and Environmental Studies please feel free to contact our office at (225) 771-4724.



Energy...Environmental...Sustainability...Remediation Projects....We are The Center for Energy and Environmental Studies.

SUSTAINABILITY WEEK 2013



SOUTHERN UNIVERSITY AND A&M COLLEGE

CREATING A CULTURE OF SUSTAINABILITY

Southern University and A&M College hosted Sustainability Week, April 22-26, 2013, Creating a Culture of Sustainability: Where Blue and Gold Meets Green. Faculty, staff and students from the Southern University and A&M College System were involved in this week-long event. Sustainability is a field of study where all disciplines collaborate and partner to find solutions to the national and international problems that face our environment, economy and society today and tomorrow. The week-long event included daily campus-wide sustainability activities led by student groups, an evening of student showcase and demonstration, a day for student research competition and professional development for faculty and staff.

Student led Sustainability activities encouraged the campuses to be more conscious of their actions and adopt more sustainable practices whether it is with energy use, food, water, transportation or waste. The first guest speaker on Tuesday, April 23, was Dr. Kesavalu M. Bagawandoss, Ph.D., J.D., Corporate Technical Director of Accutest Laboratories. He discussed different opportunities for Cleaner Fuel. The focus that evening was that of Student Showcase and Demonstrations. Students from various departments showcased the practical application of the concepts learned in the classroom.

Student Research was the focus of Wednesday's activities (April 24) including the Research Poster Competition, Workshops and Presentations. Students from the Southern University System's campuses submitted abstracts that were reviewed by an outside panel. Over 60 abstracts competed in five categories (Health & Biomedical Sciences; Advanced Materials & Nanotechnology; Energy, Ecology & the Environment; Understanding Human Behavior, Institutions and Cultures; and Business, Commerce & Workforce Development, Cyber Infrastructure & Collaborative Environments. President Ronald Mason, Jr. provided congratulatory remarks and made a presentation to the SU System winners.

April 25-26th, faculty and staff engaged in professional development sessions. The facilitators for these sessions were the National Institute of Standards and Technology, the National Science Foundation and the U.S. Department of Energy. In addition, each of the system's campuses recognized their outstanding faculty and staff at an invitation only Research Recognition Banquet. Mr. James Colon, Vice President of Toyota Product Communications, served as the guest speaker. He commended the faculty and staff for their achievements and encouraged them to continue to strive for excellence in research and teaching.



Symposium Poster Contest—First Place Winners

Submitted Proposals (July 1, 2012-June 30, 2013)

No.	Principal Investigator	Agency Name	Proposal Title	Proposal Amount
1	Abdollahi, Kamran	USDA	Demonstration Forest at Southern University and A&M College	\$120,000.00
2	Al-Raoush, Riyadh	LSU	UTC: Cutting-Edge Solutions for Transportation Challenges in Repair, Safety and Sustainability	\$25,000.00
3	Andrews, Donald	US Department of Commerce	University Center for Economic and Entrepreneurial Development	\$1,000,000.00
4	Bagayoko, Diola	NSF	Predictive Calculations of Properties of Selected Semiconductors	\$544,563.00
5	Bagayoko, Diola	LSU	Louisiana Graduate Alliance for Training Engineers and Scientists	\$262,500.00
6	Bagayoko, Diola	NIH	Alliance to Increase Minorities in Biomedical Education and Research (AIMBER)	\$150,000.00
7	Bagayoko, Diola	Prairie View A&M University	Computational Studies of Materials for Applications in Catalysis	\$50,000.00
8	Bai, Shuju	NSF	S12-CHE: Distributed Cyberinfrastructure for Multi-level Parallelism in Heterogeneous Computing Environments	\$138,564.00
9	Blevins, Edgar	LSU	Improving Louisiana Competitiveness in Experimental Astrophysics: A Rotation Modulation Gamma Ray Imaging Telescope	\$150,000.00
10	Bobba, Rambabu	DoD	Advanced Cathodes and Graphene-Ionic Liquid (GIL) Nanocomposite Materials for Next Generation Electrochemical Energy Storage Devices	\$496,000.00
11	Bobba, Rambabu	DOE/NETL	Optimization of Thermoelectric Figure of Merit in Disilicides and Skutterudites for High Temperature Sensing Devices	\$200,000.00
12	Butler, Doze	USDA	Creating Cultural Competence and Enhancing Economic Development through Experiential Learning in Apparel and Merchandising and Textiles	\$149,634.70
13	Finley, Rachel	NSF	CC-NIE Networking Infrastructure: ACCESS - Advancing Cyberinfrastructure for Computing Education and Synergistic Science	\$500,000.00
14	Flowers, Greta	NSF	CAREER: NMR and 3D Visualization to Study Pore Size Distributions in Cements	\$564,561.00
15	Gray, Wesley	NIH	Enhancement of Academic Research at Southern University Baton Rouge	\$370,498.00
16	Gray, Wesley	LA BOR	Demonstrating that Biz-2Fr.3 Induces G2/M Cell Cycle Arrest in LNCaP and DU145 Prostate Cells using Flow Cytometric Analysis	\$4,500.00
17	Gwee, Nigel	LA BOR	Development of Heuristic Computational Solutions to NP-Hard Dance Choreography and Music Composition Problems	\$146,796.00
18	Harris, Kinesha	NSF	CAREER: Design, Synthesis and Structural and Functional Studies of Peptide Nucleic Acid (PNA) - Peptide Conjugates	\$500,000.00
19	Jana, Amitava	LSU	Research on Composite Energy Materials using Parallel Molecular Dynamics Simulation and Stereographic CAVE-based Visualization	\$34,664.00
20	Jana, Amitava	LA BOR	Research on Novel Composites: Energy and Structural Materials using Parallel Molecular Dynamics Simulation and Stereographic CAVE-based Visualization	\$118,512.00
21	Jerro, H. Dewayne	DOE	Southern University Sustainable Campus Roadmap	\$150,000.00
22	Jerro, H. Dewayne	The Boeing Company	Collaboration of Southern University and The Boeing Company in the Systems Supports of the International Space Station (ISS) Program	\$104,203.00

No.	Principal Investigator	Agency Name	Proposal Title	Proposal Amount
23	Jin, Yoonyoung	LA BOR	Enhancement of Characterization Capability for Next Generation Composite CREST Center at SUBR	\$100,500.00
24	Jin, Yoonyoung	LA BOR	Next Generation Ultra-Sensitive Nanocomposite Materials	\$75,148.00
25	Johnson, Joycelyn	LA Governor's Office of Homeland Security & Emergency Preparedness	Homeland Security Equipment Program	\$77,224.67
26	Johnson, Joycelyn	US DoJ	Enhancing Community Policing in the Campus Community	\$194,760.00
27	Jones, Conrad	DoD	Self-Assembled Nanomaterials for Defense Applications	\$450,000.00
28	Jones, Conrad	NSF	CAREER: Porous Materials as Heterogeneous Catalysts for	\$442,501.00
29	Jones, Conrad	US Department of	The Synthesis, Characterization and Detection of Inorganic	\$50,000.00
30	Joshi, Ghanashyam	DoD	Single Crystal Superalloy CMSX-486 and Ceramic Matrix Composites: Characterization and Integrated Computational Modeling	\$449,994.00
31	Kaliba, Aloyce	Colorado State University	Developing Innovations and Recommendation for Managing Livestock Production Risk and Mitigating Potential Impacts of Climate Change in Southern Ethiopia and Northeastern Kenya	\$499,128.00
32	Kaliba, Aloyce	University of Louisiana at Lafayette	Collaborative Research: Linking Social and Natural Sciences to Improve Planning and Education for Sustainable Coast	\$75,000.00
33	Kaliba, Aloyce	USDA	Designing, Testing and Promoting Multipurpose Animal-Drawn Implements for Agricultural Transformation in Tanzania	\$40,000.00
34	Kaliba, Aloyce	USDA	Increasing Female-Farmers in Nile Tilapia Culture in	\$39,955.00
35	Khosravi, Ebrahim	NASA	Facility Preparation - Facility Infrastructure Setup and	\$39,948.00
36	Kundu, Madan	US DoEd	Project Work Opportunity through Resource and Capacity Building (WORC): Transition Age African American Youth with Emotional, Intellectual and Behavioral Disabilities	\$600,000.00
37	Lam, Pui-Man	Louisiana Biomedical Research Network (LBRN)	Theoretical and Computational Biophysics of DNA under an External Force	\$290,559.00
38	Lam, Pui-Man	LSU	Theoretical and Computational Biophysics of DNA under an	\$18,945.00
39	Landor-Ngemi, Jarrett	LA BOR	Assessing STEM Students' Cognitive Learning of EHR	\$10,000.00
40	Landor-Ngemi, Jarrett	LA BOR	Travel Grant for Emerging Faculty (TGEF)	\$1,200.00
41	Lee, Earl	US DoEd	Upward Bound Math and Science Project	\$1,249,999.90
42	Li, Guoqiang	DoD	Multiscale Modeling and Testing of Damage in Lightweight	\$647,545.00
43	Li, Guoqiang	DoD	Bio-inspired Shape Memory Polymer Fiber Reinforced Thermosetting Polymer Composite for Self-healing Structural-length Scale Damage	\$563,246.00
44	Li, Guoqiang	US Army Research	High Velocity Impact Tolerance of Steel Tube Grid	\$50,000.00
45	Li, Guoqiang	LSU	Hypervelocity Impact Tolerance of Steel Tube Grid Stiffened Aluminum Composite Panel	\$36,822.00

No.	Principal Investigator	Agency Name	Proposal Title	Proposal Amount
46	Li, Guoqiang	NSF	A Biomimetic Composite Sandwich for Impact Mitigation and Damage Healing	\$324,326.00
47	Martinez-Ceballos, Eduardo	NSF	CAREER: Molecular Mechanism of Hoxa1 Action in Mouse ES Cells	\$532,317.00
48	Martinez-Ceballos, Eduardo	NIH	Regulation of Nnat Gene Expression by Hoxa1 and its Role in GABAergic Neuronal Differentiation	\$319,374.00
49	Martinez-Ceballos, Eduardo	LSU	Role Hoxa1 on the Genomic Distribution of H3K27me3 in ES Cells	\$3,750.00
50	Mbarika, Victor	NSF	REU: Interdisciplinary Research on Globally Dispersed Teams and Digital Media at Southern University and DePaul University	\$495,797.00
51	Mbarika, Victor	LA BOR	Southern University Health Information Technology Laboratory (SUHIT)	\$112,156.00
52	Mbarika, Victor	LA BOR	Implementing an Artifact and Theorizing E-Democracy and Citizen Participation in Sub-Saharan Africa	\$10,000.00
53	Mbarika, Victor	NSF	Broadening Participation Research Grant: Speech and Natural Language Based Access and Interaction with the Internet using Landline Phones or Mobile Devices	\$493,391.00
54	McGee, Bernestine	USDA	Designing a Weight Gain Prevention Intervention for Late Adolescents in the College Environment	\$550,759.00
55	McGee, Bernestine	USDA	Preventing Childhood Obesity: An Innovative After School Approach for African American Adolescents	\$2,735,224.00
56	Meng, Qinghao	LA Transportation Research Center	A Smart Asphalt Sealant	\$30,000.00
57	Mensah, Patrick	NSF	IGERT - An Interdisciplinary Educational Strategy for Production of Valuable Fuels and Chemicals from Renewable Resources: A Molecules-to-Market Approach	\$583,113.00
58	Mensah, Patrick	NSF	SU International Research Experiences for Students: A Collaboration to Provide Opportunities for Global Research Activities in Sustainable Water Supply and Purification	\$349,874.00
59	Mensah, Patrick	US Nuclear Regulatory Commission	Scholarships to Increase Minority Access to Nuclear Education at Southern University and A&M College	\$200,000.00
60	Mensah, Patrick	LSU	Nano-Mechanical Memory for Space Exploration	\$167,097.00
61	Meyinsse, Joseph	LA BOR	Project MISE/RIPPLE	\$210,009.66
62	Munoz, Humberto	LA BOR	SUBR-MP Graduate Fellowship	\$144,000.00
63	Murphy, S.N.	Louisiana Biomedical Research Network (LBRN)	Exacerbation of Atherosclerosis by the Dietary Combination of Hcy and Cholesterol	\$310,000.00
64	Namwamba, Fulbert	LSU	Process-Based Modeling and Mitigation of Nitrogen and Phosphorous Inputs in Boeuf River Watershed	\$60,000.00
65	Namwamba, Fulbert	USDA	Enhancement of Spatial Technologies Facilities Supporting Environmental and Global Climate Change Instruction	\$149,999.30
66	Perry, Huey	US Office of Juvenile Justice of Delinquency Prevention	Evaluation of the Juvenile Justice Reform and Reinvestment Initiative	\$700,000.00
67	Perry, Huey	US Bureau of Justice Statistics	A Statistical Analysis of the Determinants of Presidential Pardon Outcomes	\$350,000.00
68	Shin, Hak-Chul	NSF	Characterization of Sustainable Rehabilitation Layer Placed on Existing Concrete	\$246,002.00
69	Shin, Hak-Chul	Missouri University of Science and Technology	University Transportation Center Tier 1: Research on Concrete Applications for Sustainable Transportation (RE-CAST)	\$130,000.00

No.	Principal Investigator	Agency Name	Proposal Title	Proposal Amount
70	Simon, Gary	USDA	Louisiana - Science, Technology, Engineering, Agriculture and Mathematics (LA-STEAM)	\$150,000.00
71	Taylor, Cheryl	US DHHS	SDS-Scholarships for Disadvantaged Students	\$2,200,000.00
72	Thornton, Alma	US DoEd	Southern University Ronald E. McNair Post-baccalaureate Achievement Program Application	\$1,144,000.00
73	Thornton, Alma	US DoL	Southern University Re-Integrating, Innovating and Educating Women (SU-RENEW)	\$1,500,000.00
74	Thornton, Alma	DOE	University and Community Sustainable and Resilient Communities Workshop	\$135,000.00
75	Thornton, Alma	US DoL	Southern University Community Jobs for All (SU-JA)	\$1,400,000.00
76	Thornton, Alma	US DHHS	SU - HIV/AIDS and Substance Abuse Prevention Program	\$900,000.00
77	Walker, Edwin	LSU	Helium-3 Production from Natural Gas Sources with Efficient Separation Based on Quantum Confinement	\$318,621.00
78	Wang, Weihua	NSF	CAREER: Fundamental Study of Green Deep Eutectic Solvents Formed from Natural Organic Compounds	\$400,000.00
79	Wang, Weihua	LA BOR	Enhancement of FT-Raman Capability in the Environmental Sciences for Research and Teaching at Southern University	\$122,649.00
80	Woldesenbet, Eyassu	LSU	Development and Characterization of Graphene Platelets Syntactic Foam for Aerospace Applications	\$23,139.00
81	Woldesenbet, Eyassu	NSF	NEXT Generation Composites Crest Center, NextGenC3	\$100,000.00
82	Yang, Shizhong	NSF	CAREER: An Integrated Study on the Oxidation of High Entropy Alloy	\$575,000.00
83	Yang, Shizhong	NIH	HSV-1 gK, gB, and gH/gL Interactions through Computer Simulation	\$310,000.00
84	Yang, Shizhong	LSU	Simulation and Experiment Study on High Entropy Alloy	\$12,000.00
85	Yang, Shizhong	US DoE	DOE CAREER: An Integrated Design of High Temperature High Entropy Alloy	\$750,000.00
86	Yang, Shizhong	DOE/NETL	TST[b] An Integrated Study on a Novel High Temperature High Entropy Alloy	\$200,000.00
87	Yang, Shizhong	NSF	DMREF: Computational Design and Experiment Characterization of High Temperature High Entropy Alloys	\$1,599,272.00
88	Zhao, Guang-Lin	NSF	New High Efficiency Thermoelectric Materials for Thermal Energy Harvesting	\$2,000.00
89	Zhao, Guang-Lin	NSF	Identifying Electrocatalytic Reaction Sites on Nitrogen Functionalized Carbon Nanotubes and Graphene as New Catalysts for Energy Technology Applications	\$299,970.00
Total				\$33,131,311.23

Funded Proposals (July 1, 2012-June 30, 2013)

No.	Principal Investigator	Project Title	Agency Name	Amount
1	Abdollahi, Kamran	Enhancing Urban Forestry Program at Southern University and A&M College	USDA	\$92,200.00
2	Abdollahi, Kamran	Urban Forest Educational Forest	USDA	\$120,000.00
3	Bagayoko, Diola	The Sankofa Academy (21st Century Community Learning Center)	LA DoEd	\$50,000.00
4	Bagayoko, Diola	Louisiana Alliance for Minority Participation Senior Alliance Institutional Agreement with Southern University - Baton Rouge	LA BOR	\$144,000.00
5	Bagayoko, Diola	Louisiana EPSCoR Research Infrastructure Improvement: Computational Materials SUBR Subcontract	LA BOR	\$350,262.00
6	Bagayoko, Diola	Investigating and Characterizing Catalytic Activity in Novel Materials and Processes using Experimental and Computational Techniques	Prairie View and A&M University	\$75,000.00
7	Bagoyoko, Diola	Louisiana Alliance for Minority Participation Senior Alliance Statewide Office of SUBR	LA BOR	\$383,000.00
8	Blevins, Edgar	ExxonMobil Bernard Harris Summer Science Camp	ExxonMobil Bernard Harris Foundation	\$80,000.00
9	Borskey, Erma	Louisiana Child Welfare Comprehensive Workforce Project Training	LSU	\$18,080.00
10	Butler, Doze	Delta Obesity Prevention Research Unit - SUBR	USDA	\$136,775.00
11	Campbell, Will	Louisiana Small Business Development Center	LA SBDC	\$190,000.00
12	Carriere, Patrick	2013 National Summer Transportation Institute (NSTI)	LA DOTD	\$52,158.00
13	*Chavis, Kim	Title III Program	US DoEd	\$5,331,795.00
14	Doomes, Edward	Environmentally Persistent Free Radicals, Structure and Properties of Metal Oxide Particle-Absorbate Systems	LSU	\$23,953.00
15	Doucet, Patricia	Educational Talent Search #1 - Classic	US DoEd	\$452,457.00
16	Duncan, Cecil	Substance Abuse Prevention Training: Youth Access to Tobacco: Statewide Substance Abuse Process and Outcome Evaluation	LA DHH	\$104,514.00
17	Dutta, Alo	Rehabilitation Counselor Training Program with Specialization in Rehabilitation of Ethnic Minorities	US DoEd	\$147,380.00
18	Dutta, Alo	MIND Alliance for Minority Students with Disabilities in Science, Technology, Engineering and Mathematics	Hunter College	\$188,016.00
19	Gray, Wesley	Demonstrating that Biz-2Fr.3 Induces G2/M Cell Cycle Arrest in Lncap and DU145 Prostate Cells using Flow Cytometric Analysis	LA BOR	\$4,500.00
20	Harrison, Ronnie	Title I - Grants to Local Education Agencies	LA DoEd	\$97,897.00
21	Harrison, Ronnie	Title II, Part A, Teacher and Principal Training and Recruiting Fund	LA DoEd	\$8,238.00
22	Harrison, Ronnie	Mastering English/Language Arts in High Stakes Testing Grades	LA State Board of Elementary and Secondary Education	\$2,818.00
23	**Hughes, Ernie/ Stubblefield, Michael	Center for Business Opportunities and Disaster Recovery Assistance	US Department of Commerce	\$1,000,000.00
24	Ibekwe, Samuel	Bio-Mimetic Self-Healing Composite Sandwich for Impact Tolerant NextGen Aerospace Structures	LSU	\$187,278.00
25	Johnson, Joycelyn	State Homeland Security Program (SHSP)	Governor's Office of Homeland Security and Emergency Preparedness	\$25,000.00

*Institutional Aid

**Jointly submitted by the SUBR campus & the S.U. System Foundation

No.	Principal Investigator	Project Title	Agency Name	Amount
26	Jones, Conrad	Synthesis, Characterization and Detection of Inorganic Based Green Energetic Materials (GEMs)	Oak Ridge Institute for Science and Education	\$50,000.00
27	Kundu, Madan	Rehabilitation Training - Vocational Education & Work Adjustment (VEWA)	US DoEd	\$98,253.00
28	Kundu, Madan	Comprehensive System of Personnel Development in Rehabilitation Counseling Online (CSPD-RCO)	US DoEd	\$196,506.00
29	Kundu, Madan	Rehabilitation Capacity Building Project for Traditionally Underserved Populations (RCBP-UP)	US DoEd	\$273,295.00
30	Landor-Ngemi, Jarrett	Assessing STEM Students' Cognitive Learning of EHR Technologies: A Multi-Media Case Study Approach	LA BOR	\$10,000.00
31	Lee, Earl	Upward Bound Math and Science Project	US DoEd	\$250,000.00
32	Li, Guoqiang	Bio-inspired Shape Memory Polymer Fiber Reinforced Thermosetting Polymer Composite for Self-healing Structural-length Scale Damage	US Army	\$563,246.00
33	Marshall, Renita	JAGS in AG: Recruitment, Exploration and Retention	USDA	\$149,838.00
34	Martinez-Ceballos, Eduardo	Role Hoxa1 on the Genomic Distribution of H3K27me3 in ES Cells	LSU	\$3,750.00
35	Mbarika, Victor	Implementing an Artifact and Theorizing E-Democracy and Citizen Participation in Sub-Saharan Africa	LA BOR	\$10,000.00
36	Meng, Qinghao	A Novel Impact-Tolerant 3D Biomimetic Fabric Composite for Aerospace Structures	LSU	\$37,791.00
37	Mensah, Patrick	Computation and Measurement of Insulation Properties in Extreme Environments	LSU	\$36,390.00
38	Meyinsse, Joseph	Project RIPPLE/MISE	LA Tech University	\$48,611.25
39	Meyinsse, Joseph	LIGO Science Education Partnership (SUBR)	NSF	\$425,000.00
40	Namwamba, Grace	Agricultural Marketing Services (AMS) Student Enrichment Program at Southern University and A&M College	USDA	\$35,000.00
41	Ning, Zhu	An Ecosystem Approach to Global Climate Change Education	NASA	\$338,932.00
42	Nzewi, Emmanuel	2012-13 Dwight David Eisenhower HBCU Fellowship Program	US DoT	\$7,500.00
43	Nzewi, Emmanuel	2012-13 Dwight David Eisenhower HBCU Fellowship Program	US DoT	\$10,000.00
44	Peoples, VerJanis	Common Core State Standards and Assessment: K-12/ Postsecondary Alignment (CTC)	LA BOR	\$4,000.00
45	Porter, David	Launching English Intellectual History: The Construction of the First English Encyclopedia at Canterbury in the 7th Century	National Endowment for the Humanities	\$50,400.00
46	Rami, Janet	Scholarships for Disadvantaged Students	US DHHS	\$450,000.00
47	Robinson, Rhonda	The Classic Upward Bound Project	US DoEd	\$591,877.00
48	Smith, Raife	Sensors Nanotechnology Research for C4ISR and EW Technical Thrust	Clarkson Aerospace Corporation	\$90,000.00
49	Stubblefield, Michael	ACE Implementation Grant: The New Energy Workforce: Sustainable Materials, Energy and Technology	NSF	\$99,600.00
50	Thornton, Alma	Title IV-E Child Welfare Training and Curriculum Development	LA Department of Social Services	\$163,232.14

No.	Principal Investigator	Project Title	Agency Name	Amount
51	Thornton, Alma	Minority Serving Institutions HIV/AIDS Demonstration Initiative and Capacity Building Projects	Abt Associates, Inc.	\$52,000.00
52	Thornton, Alma	LA Bucket Brigade	LA Bucket Brigade	\$2,200.00
53	Uppu, Rao	Confocal Microscopic Study of Uptake and Sub-cellular Localization of LHRH-SPIONs (LBRN Summer Research Program)	LSU	\$7,500.00
54	Uppu, Rao	Molecular Docking/Dynamics Studies of Binding a Bisphenol A, Its Analogs and Metabolites (LBRN Summer Research Program)	LSU	\$7,500.00
55	Walker, Ernest	Detection and Sensing of Environmental Chemical Substances using Ad-hoc Wireless	US DOE	\$286,671.00
56	Walker, Ernest	Detection and Analysis of Chemical and Radionuclides	Alabama A&M University	\$60,000.00
57	Walker, Ernest	Integrated Trajectory Information Processing and Management of Aircraft Safety (ITIPS)	University of New Orleans	\$240,000.00
58	Washington, Samuel	Analytical Services for Marine Corps Recruit Depot Parris Island - Parris Island, South Carolina	Tetra Tech, Inc.	\$8,019.27
59	Washington, Samuel	A Regional Program for Production of Multiple Agricultural Feedstock and Processing to Biofuels and Biobased Chemicals	LSU	\$120,000.00
60	Washington, Samuel	Technical Specification for Laboratory Services Naval Support Activity	Tetra Tech, Inc.	\$45,134.88
61	Washington, Samuel	Marine Corp Recruit Depot (MCRD) Parris Island, South Carolina Comprehensive Long-Term Environment Action	Tetra Tech, Inc.	\$17,832.58
62	Washington, Samuel	NSA Crane Navy Clean for Analytical Services	Tetra Tech, Inc.	\$24,026.40
63	Washington, Samuel	Navy Clean Analytical Services for Marine Corps Recruit Depot (MCRD) Parris Island, Parris Island, South Carolina	Tetra Tech, Inc.	\$10,230.40
64	Washington, Samuel	Mentor Protégé, Ayuda	EM-Assist	\$25,000.00
65	Washington, Samuel	Laboratory Analytical Services for Tetra Tech RAD EMAC, Hunters Point Shipyard, San Francisco, CA	Tetra Tech, Inc.	\$105,000.00
66	Washington, Samuel	NSA Crane Navy Clean for Analytical Services	Tetra Tech, Inc.	\$4,158.97
67	Washington, Samuel	NSA Crane Navy Clean for Analytical Services	Tetra Tech, Inc.	\$8,009.40
68	Washington, Samuel	Analytical Services for Seaplane Lagoon at Alameda Point, Alameda California by Naval Facilities Engineering Command, Southwest Division	Tetra Tech, Inc.	\$50,000.00
69	Washington, Samuel	NAS JRB Willow Grove, Pennsylvania	Tetra Tech, Inc.	\$137,217.60
70	Washington, Samuel	Treasure Island Lab Services	Tetra Tech, Inc.	\$25,000.00
71	Washington, Samuel	Alameda Lab Services	Tetra Tech, Inc.	\$61,000.00
72	Washington, Samuel	Laboratory Services for Marine Corp Recruit Depot (MCRD)Parris Island, South Carolina	Tetra Tech, Inc.	\$4,300.33
73	Washington, Samuel	Chemical Monitoring Well Sampling - Courthouse Point Confined Disposal Facility, Cecil County, Maryland	Tetra Tech, Inc.	\$16,180.00
74	Washington, Samuel	Radiological Monitoring Well Sampling - Courthouse Point Confined Facility - Cecil County, Maryland	Tetra Tech, Inc.	\$36,447.32
75	Yang, Shizhong	Simulation and Experiment Study on High Entropy Alloy	LSU	\$6,000.00
76	Zhao, Guang-Lin	Study of Electromagnetic Wave Absorption Properties of Carbon Nanotubes-Based Composites	US Department of the Air Force	\$150,000.00
77	Zhao, Guang-Lin	New High Efficiency Thermoelectric Materials for Thermal Energy Harvesting	NSF	\$2,000.00
	Total			\$14,769,970.54

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Auxiliary Research Support

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SMITH-BROWN MEMORIAL STUDENT UNION

THURSDAY, APRIL 25, 2013

Most Proposals Awarded

Alma Thornton

Millionaire Club Inductees (2009-2012)

Diola Bagayoko

Karen Crosby

Alo Dutta

Mary Joseph

Ella Kelley

Madan Kundu

Guoqiang Li

Stephen McGuire

Patrick Mensah

Joseph Meyinsse

Zhu Ning

VerJanis Peoples

Carolyn Person

Frank Puckett

Janet Rami

Rhonda Robinson

Michael Stubblefield

Alma Thornton

Rao Uppu

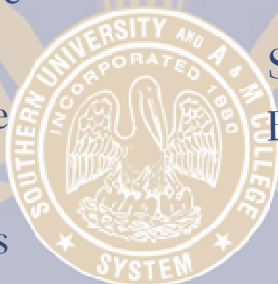
Edwin Walker

Samuel Washington

Eyassu Woldesenbet

Luria Young

Guang-Lin Zhao



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