



## 2010 NASA ALABAMA SPACE GRANT CONSORTIUM FELLOWSHIP & SCHOLARSHIP AWARDEES

### *Fellowship and Scholarship Awardees by University*

#### **ALABAMA A&M UNIVERSITY**

##### **Undergraduate Scholars:**

**Ma Queshia Arnessia Brown**, Civil Engineering, BS, May 2012

**Jasmine Collins Long**, Food Science/Chemistry, BS, December 2011

**Quintina Alicia Marable**, Food Science, BS, December 2011

**Kayla Janel Merriweather**, Civil Engineering, BS, December 2011

**Melissa D. Porter**, Biology, BS, December 2010

**\*Breon Jamal Williams**, Mechanical Engineering, BS, May 2011

##### **Graduate Fellows:**

**\*\*Timothy Earl Baldwin**, "GIS and Remote Sensing Multi-scale Analysis of the Effect of Forest Disturbance on Pool Breeding Amphibian Ecology", Plant & Soil Sciences, PhD, May 2012. Advisor: Dr. Yong Wang. NASA Marshall Space Flight Center.

**Quianna S. Johnson**, "The Preparation of Europium Tetrakis (dibenzoylmethide) TEA doped Gd<sub>2</sub>O<sub>3</sub> Thin Films in Structural Damage Sensors", Physics, MS, May 2012. Advisor: Dr. Mohan Aggarwal. NASA Marshall Space Flight Center.

#### **AUBURN UNIVERSITY**

##### **Undergraduate Scholars:**

**John Henry Gray, III**, Electrical Engineering, BS, May 2012

**Christopher Ryan Osterlund**, Aerospace Engineering, BS, December 2012

**Jordan Scott Saverse**, Aerospace Engineering, BS, May 2012

**Brittani Nickiel Smith**, Pre-Optometry, BS, May 2012

**Alexander David Scammell**, Mechanical Engineering, BS, May 2011

**Chelsea Marie Thomason**, Aerospace Engineering, August 2012

##### **Teacher Education Scholars:**

**Emma Catherine Reeves**, Secondary Mathematics Education, BS, May 2012

**Allison Grace Thomas**, Secondary Mathematics Education, BS, May 2014

**Jessica Sarah Stuckey**, Elementary Education (Science & Math), BS, May 2011

##### **Graduate Fellows:**

**\*\*David John Branscomb**, "Minimal Weight Composites Utilizing Advanced Manufacturing Techniques", Polymer & Fiber Engineering, PhD, August 2011. Advisor: Dr. Roy M. Broughton. NASA Glenn Research Center.

**Wesley O. Smith, III**, "Bridging the Gap between Computational Fluid Dynamics and Aero-acoustic Launch Environment", Mechanical Engineering, PhD, May 2012. Advisor: Dr. Malcolm J. Crocker. NASA Marshall Space Flight Center.

## **THE UNIVERSITY OF ALABAMA**

### **Undergraduate Scholars:**

\***Carl J. Breidenich**, Mechanical Engineering, BS, May 2011

\***Edwin A. Bullard**, Mechanical Engineering, BS, May 2011

**Meredith Burton**, Mechanical Engineering, BS, May 2012

**Zachary J. Coppens**, Mechanical Engineering, BS, May 2012

**Daniel R. Jones**, Aerospace Engineering, BS, May 2012

**Chase M. Leibenguth**, Aerospace Engineering, BS, May 2011

**Anthony Ortiz**, Aerospace Engineering, BS, Dec. 2010

**Chris J. Searcy, Jr.**, Mechanical Engineering, BS, May 2010

\***Kristen M. Stovall**, Chemical & Biomedical Engineering, BS, May 2011

### **Teacher Educator Scholar:**

**Ann Marie Thomas**, Mathematics Education, BS, May 2012

### **Graduate Fellows:**

**Justin K. Headley**, "Applications of Modular Robotic Systems to In Situ Resource Utilization", Computer Engineering, MS., May 2011. Advisor: Dr. Kenneth Ricks. NASA Marshall Space Flight Center.

**Timothy B. Shirey**, "Perchlorate Reduction and Biochemistry in the Atacama Desert: The Search for Bio-signatures of Life in a Martian Analog Environment", PhD, Biology, May 2013. Advisor: Dr. Julie Olson. NASA Ames Research Center.

## **THE UNIVERSITY OF ALABAMA AT BIRMINGHAM**

### **Undergraduate Scholars:**

**David Allen Cooper**, Mechanical Engineering, BS, May 2011

**Andrew Douglas Fox**, Biomedical Engineering, BS, May 2012

### **Graduate Fellows:**

**Laura Brianna Gast**, "Analysis of NASA Satellite Datasets to Determine Long-term Land-use Change in the Southern Amazon City of Puerto Maldonado, Peru and Implications for Dengue Control", Epidemiology/ International Health, PhD, December 2011. Advisor: Dr. Sarah Parcak. NASA Marshall Space Flight Center.

**Sarah Thomas**, "Rare Earth Materials Under Extreme Conditions", Physics, PhD, May 2013. Advisor: Dr. Yogesh Vohra. NASA Marshall Space Flight Center.

## **THE UNIVERSITY OF ALABAMA IN HUNTSVILLE**

### **Undergraduate Scholars:**

**Thomas Jones Adams**, Physics, BS, May 2012

**William Schafer Beatty**, Aerospace Engineering, BS, December 2011

\***Christian Philip Bonnell**, Physics, BS, May 2011

**Tamara Lee Cottam**, Aerospace Engineering, BS, May 2012

**George Everett Edwards**, MIS, BS, May 2011

**Paul Pritchett Ferguson**, Chemistry/Biology, May 2012

**Brittani Shaunte Giles**, Biology, BS, May 2012

\***Jennifer A. Hunt**, Aerospace Engineering, BS, December 2011

**Hassan Robert Liaghati-Mobarhan**, Physics, BS, May 2012

**Graduate Fellows:**

**James Michael Burgess**, "Investigating the Low Energy Response of the Fermi LAT via an Energy Dispersion Analysis", PhD, May 2012. Advisor: Dr. Rob Preece. NASA Marshall Space Flight Center.

**Ross Jared Cortez**, "Comparison of Directly Coupled and Inductively Coupled Fusion Propulsion Systems", Aerospace Engineering, MSE, May 2011. Advisor: Dr. Jason Cassibry. NASA Marshall Space Flight Center.

**UNIVERSITY OF SOUTH ALABAMA**

**Undergraduate Scholars:**

**Christopher Courtney Buchanan**, Physics, BS, May 2012

\***Gregory James Schoepen Hickman**, Mechanical Engineering/Mathematics, BS, December 2011

\***Angel Huot**, Mechanical Engineering, BS, May 2011

\***Rachael Michele Penton**, Meteorology, BS, May 2011

**Graduate Fellows:**

**Daniel Brian O'Keefe**, "Dynamics and Control of Fuel Cell Systems", Chemical Engineering, MSE, May 2012. Advisor: Dr. Srinivas Palanki. NASA Marshall Space Flight Center.

**Alexander Michael Scruggs**, "Design of a Microtensile Testing Stage that Induces Thermo-mechanical Fatigue to Composite Materials", Mechanical Engineering, MSE, May 2010. Advisor: Dr. Gail Jefferson. NASA Marshall Space Flight Center.

**TUSKEGEE UNIVERSITY**

**Undergraduate Scholars:**

**Brittanie Leshae Brown**, Electrical Engineering, May 2012

**Shayla Kimie Givens**, Aerospace Engineering/Physics, May 2011

**Hugh Lester Hutchins**, Electrical Engineering, May 2011

\***Jonathan T. Rice**, Electrical Engineering, May 2011

**Mei-Chanda Chivonne Stewart**, Aerospace Engineering, May 2011

\* *Denotes renewal of a previous Fellowship or Scholarship*