

**2005-2006 ALABAMA SPACE GRANT CONSORTIUM
FELLOWS and SCHOLARS**

THE UNIVERSITY OF ALABAMA

Undergraduate Scholars:

Bryan Coley, Mechanical Engineering, BS, May '07.

John W. Crawford, Mechanical Engineering, BS, May '06.

Matthew Fitzgerald, Mechanical Engineering, BS, May '06.

Jason Steele Prater, Chemical Engineering, BS, May '07.

Olivia De'Haven Underwood, Metallurgical Engineering, BS, Dec. '07.

Graduate Fellows:

Nicholas J. Bridges, "Hydrophilic Ionic Liquids: For Separation and Other Novel Application", Inorganic Chemistry, PhD, May '07. Advisor: Dr. Robin Rogers. NASA MSFC.

Amanda Canol Cole, "Achieving Ultra-high Storage Capacity for NASA Data Collection Missions", Metallurgical and Materials Engineering, PhD, May '08. Advisor: Dr. Gregory Thompson. NASA MSFC.

AUBURN UNIVERSITY

Undergraduate Scholars:

Mary Ophelia Aboko-Cole, Zoology, BS, May '07.

Lauren Cammack, Molecular Biology, BS, May '07.

***Daniel J. Dunn, II**, Aerospace Engineering, BS, May '06.

Kiersten Alexis Koen, Biomedical Science, BS, May '07.

***John C. Worley**, Aerospace Engineering, BS, May '06.

Teacher Education Scholars:

Stephanie Altenbach, Mathematics Education, BS, May '06.

Ashley McCullough, General Science Education, BS, May '07.

Margaret Anne Rivers, Mathematics Education, BS, December '05.

Heather D. Smith, Mathematics Education, BS, December '06.

Graduate Fellows:

***Abby Anderson**, "Development of an Autonomous Blimp", Electrical Engineering, MS, Dec. '05. Advisor: Dr. A. S. Hodel. NASA MSFC.

Brittany Arin Consuegra, "Dynamic Stability and Vibration Characteristics of Advanced Liquid Rocket Engines", Mechanical Engineering, MS, May '07. Advisor: Dr. George Flowers, NASA MSFC.

Anthony T. Owens, "Fracture Behavior of Micro-scale Devices". Mechanical Engineering, MS, Dec. '06. Advisor: Dr. Hareesh Tippur. NASA-Langley.

UNIVERSITY OF SOUTH ALABAMA

Undergraduate Scholars:

***Sejal R. Amin**, Biomedical Sciences/Chemistry, BS, May '06

Tam Do, Chemical Engineering, BS, May '06.

Lance C. Outerbridge, Electrical Engineering, BS, Aug. '07.

Bradley West, Physics/Chemistry, BS, Dec. '05.

Aaron Vincent O'Neal Wright, Mechanical Engineering, BS, May '06.

Graduate Fellow:

Robert Williams, Jr., "Symmetric Galerkin Boundary Element Modeling of the Effects of Particulate Aggregates on Crack Propagation in a Heterogeneous Material", Mechanical Engineering, MS, May '06. Advisor: Dr. Anh Vu Phan. NASA MSFC.

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Undergraduate Scholars:

Idris Lawal, Biomedical Engineering, BS, May '06.

G. Hugh Nichols, Mechanical Engineering, BS, Dec. '06.

Jessica Record, Chemistry, BS, May '07.

Brad Thompson, Electrical Engineering, BS, May '06.

Graduate Fellows:

***Urcun "John" Tanik**, "An Intelligent Design Framework for Optical Backplane Engineering Leveraging Axiomatic Design and the Semantic Web", Computer Engineering, PhD, Aug. '06. Advisor: Dr. Gary J. Grimes. NASA MSFC.

Christina Richey, "UV Photolysis of Icy Planetary Analogues", Physics, PhD May '08. Advisor: Dr. Perry Gerakines. NASA GSFC.

TUSKEGEE UNIVERSITY

Undergraduate Scholars:

Joseph David Bostic, Jr., Electrical Engineering, BS, May '06.

Christel Embry, Electrical Engineering, BS, May '06.

***Rodney Lamar Williams**, Electrical Engineering, BS, May '06.

ALABAMA A&M UNIVERSITY

Undergraduate Scholars:

Kamal H. Henderson, Biology, BS, May '06.

Tony Lamar Lee, Electrical Engineering, BS, May '06.

***Mark C. Mizell**, Mechanical Engineering, BS, May '06.

Anthony J. Nix, Jr., Biology, BS, May '06.

***Angela R. Reedy**, Biology/Chemistry, BS, May '06.

Teacher Education Scholars:

Gregory L. Emanuel, Biology Education, BS, May '06.

Erin Lott, Biology Education, BS, May '06.

Leah Patton, Biology Education, BS, Dec '06.

Angela Shull, Biology Education, BS, May '06.

Graduate Fellows:

***Burl H. Peterson**, "Novel Two-photon Optical Limiting Materials for Protection of Remote Sensors in Future NASA Mission", Applied Physics (Optics), PhD, Dec. '06. Advisors: Dr. Jai-Ching Wang and Dr. Sergey S. Sarkisov. NASA MSFC.

Ricardo P. Polius, "Recombinant DNA Technology", Food Science, PhD, May '08. Advisor: Dr. Hortense Dodo. NASA MSFC.

THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

Undergraduate Scholars:

Michelle K. Christensen, Mechanical Engineering, BS, May '06.

Elise Robichaud Haley, Computer Engineering, BS, May '07.

Crystal E. Lewis, Biology, BS, '06.

***Kevin Losser**, Mechanical and Aerospace Engineering, BS, May '06.

Dustin Eugene Wood, Mechanical and Aerospace Engineering, BS, May '07.

Teacher Education Scholars:

Lajai E. Davis, Mathematics Education, BS, Dec. '06.

Kristen M. Fabick, Mathematics Education, BS, May '07.

Graduate Fellows:

***Amanda Gates Duffell**, "Detection of Chemical and Biological Compounds through Fluorescent Emission in a Hollow Core Optical Fiber", Optical Science and Engineering, PhD, May '07. Advisor: Dr. Don Gregory. NASA MSFC.

****Divya Pradhan**, "Subtilisin-like Serine Protease from Novel Bacillus sp. of African Soda Lake Origin", Biotechnology, PhD, May '05. Advisor: Dr. Joe Ng. NASA/MSFC.