Congratulations to OUR
Discovery Day 2005 Award Winners!!

MILLIKEN & COMPANY
Best Poster Overall:
- Kelvin Moore (Chemical Engineering), Development of Non-Precious Metal Cathode Catalysts for PEM Fuel Cells; Mentor: Dr. Branko N. Popov, Department of Chemical Engineering

Top three posters:
- Rachel Hipp (Chemistry), Hollow Tubular Metal-Organic Frameworks: Synthesis, Characterization, and Thermal Properties; Mentor: Dr. Hans-Conrad zur Loye, Department of Chemistry and Biochemistry
- Ashley Metcalf (Chemical Engineering), Synthesis of Copper-Palladium Bimetallic Catalysts using Electroless Deposition; Mentor: Dr. Christopher T. Williams, Department of Chemical Engineering
- Thomas Styslinger (Chemistry), Synthesis of a novel tris(pyrazole) compound for use in virus bioconjugation; Mentor: Dr. Qian Wang, Department of Chemistry & Biochemistry

BIOMEDICAL ENGINEERING
1. Stephanie Lareau (Chemical Engineering), Strain Gauge Usage for Determination of the Effects of Platelet Derived Growth Factor on Fibroblast Populated Collagen Gel Contraction; Mentor: Dr. Jonathan Bender, Department of Chemical Engineering
2. Mary Jo Manuse (Chemistry), Synthesizing Conjugated Polymers for Pathogenic Sensing; Mentor: Dr. John J. Lavigne, Department of Chemistry and Biochemistry
3. Nidhi Kumar (Biology), Applications of Nanoparticles in Cancer Research; Mentor: Dr. George Khushf, Department of Philosophy

EARTH SCIENCE
1. Elyse Walker (Marine Science), Growth Rates of the Toxic Dinoflagellate Karenia brevis in Response to Variations in Light and Grazing; Mentor: Dr. Tammi Richardson, Department of Biological Sciences
2. Steven Traynum (Marine Science), Mixing and sediment transport near a tidal node during high discharge conditions; Mentor: Dr. Richard Styles, Department of Geological Sciences
3. Bonnie Coggins (Marine Science), Radiocesium Distribution in North American River Otters on the Savannah River Site; Mentor: Dr. Machelle Wilson, Savannah River Ecology Laboratory

ENGINEERING AND MATERIAL SCIENCE
1. Kelvin Moore (Chemical Engineering), Development of Non-Precious Metal Cathode Catalysts for PEM Fuel Cells; Mentor: Dr. Branko N. Popov, Department of Chemical Engineering
2. Rachel Hipp (Chemistry), Hollow Tubular Metal-Organic Frameworks: Synthesis, Characterization, and Thermal Properties; Mentor: Dr. Hans-Conrad zur Loye, Department of Chemistry and Biochemistry
3. Ashley Metcalf (Chemical Engineering), Synthesis of Copper-Palladium Bimetallic Catalysts using Electroless Deposition; Mentor: Dr. Christopher T. Williams, Department of Chemical Engineering
ENVIROMENTAL ISSUES
1. Mary Lohman (Exercise Science) and Kathryn Vignone (Baccaluareas Artium et Scientiae), The Georgetown Steel Mill in Georgetown, SC: The avoidance of “Beaufortization” and the effects of an industrial economy; Mentor: Dr. Thomas Lekan, Department of History
2. Victoria Boozer (Advertising), Jessica Foster (Journalism), and Gabrielle Sinclair (Journalism), Taking Action: An analysis of methods used to reduce the impact of tsunamis; Mentor: Dr. Evan Paleologos, Department of Geological Sciences
3. Sara Saylor (English), Ryan Holt (Political Science), and Kenneth Bryan, (History), Preservation or Utilization? The Question of Drilling in the Arctic National Wildlife Refuge; Mentor: Dr. Evan Paleologos, Department of Geological Sciences

LIFE SCIENCE
1. Jennifer Lake (Exercise Science), The Immunological Effects of Oat β-Glucan Consumption and NSAID-Administration with Exercise, Mentor: Dr. J. Mark Davis, Department of Exercise Science
2. Leah M. Brown (Psychology), Prenatal Cocaine Exposure: Dose-Dependent Increase in Intentional Tremor; Mentor: Dr. Charles F. Mactutus, Department of Psychology
3. Ian Kane (Biology), Heart disease and diabetes: the role of α1-integrin and mitogen-activated protein kinases in transducing cardiac fibroblast response to hyperglycemia and mechanical stretch; Mentor: Dr. Wayne Carver, USC School of Medicine

NATURAL SCIENCE
1. Sarah Refi (Biology), Identification of LeMKK4-interacting proteins from tomato; Mentor: Dr. Johannes Stratmann, Department of Biological Sciences
2. Samantha N. Roberson (Chemistry), Combinatorial Optimization of Extractions and Capillary Electrophoresis for Forensic Analysis of Dyes from Textile Fibers; Mentor: Dr. Stephen L. Morgan, Department of Chemistry & Biochemistry
3. Jae Jun Kim (Physics), Measurement of Neutrino Induced Quasi-Elastic (QE) Cross Section; Mentor: Dr. Sanjib Mishra, Department of Physics and Astronomy

PSYCHO-SOCIAL
1. Michael Chajewski (Psychology), University Students’ Projected Moral Disengagement Mechanisms on Peer Offenders; Mentor: Dr. Thomas Cafferty, Department of Psychology
2. Ryan J. Newsom (Psychology), Influence of skill acquisition on social behavior and other skills; Mentor: Dr. Sandra J. Kelly, Department of Psychology
3. Bobby Frankenberger, Lesya Lasota, Jeni Mehta, Sara Peters, Ray Saut, and Raquel Vaca (all Psychology) Phonological and Semantic Influences on Working Memory; Mentor: Dr. Amit Almor, Department of Psychology

SOCIAL AND POLITICAL COMMUNICATION
1. Kristie Etson (Marine Science) and Paula Johns (International Studies), What is an Artist’s Book?; Mentors: Dr. Susan Hogue, Department of Art and Dr. Claudia Smith Brinson, South Carolina Honors College
2. Jeremiah Wolfe (Russian), The True New Russians: Opinions on terrorism, democratic governance, and US-Russian relations among Russian university students; Mentor: Dr. Gordon Smith, Department of Political Science
3. Caitlin Coker (English), Tranculturation and Gender in Japanese Contemporary Dance; Mentor: Susan Anderson, Department of Theatre and Dance