

Pending Grant Proposals

Allain, Eric; Karatan, Ece; and Marland, Eric; “A Multidisciplinary Study of Cell Free Production of Ethanol”, North Carolina Biotechnology Center. Requested \$163,900, October 2006.

Babiyak, Carol (PI); Sigmund Sammuella (Co-PI); Puckett, Libby (Senior Personnel) Tuberty Shea (Co-PI); **Tomlinson, John (Senior Personnel); Williams, Stephen (Senior Personnel)** “Improving Laboratory Experiences for Science Majors and Non-Majors at Appalachian State University through Implementation of Inquiry Based Learning with State of the Art Equipment”, submitted to the National Science Foundation CCLI Phase I Exploratory Projects. Requested \$146,945), May 2006.

Babiyak, Carol (PI), Georgescu, Lucian; Schwab, Alexander and Tomlinson, John; “Systematic Initiative for North Carolina Wine Quality (SMART)”. Submitted to the North Carolina Wine and Grape Council and Viticulture Consortium East. Requested \$13,391. October 2006.

Babiyak, Carol and Anderson, William; “Effects of Borehole Storage Time and Variable Pumping Schedules on the Concentration of Arsenic in Fractured Bedrock Aquifers”. Submitted to the Water Resources Research Institute of the University of North Carolina. Requested \$62,979. October 2006.

Bennett, Nicole; Ramey, Michael; Utter, Alan; **Allain, Eric;** Cherry, Todd; Crepeau, Richard; Eloranta, Jari; Grady, Dennis; McDaniel, Tanga; Raichle, Brian; **Ramsdell, Jeff;** Salinas, Rene; **Williams, Steve.** “THE APPALACHIAN STATE UNIVERSITY LANCY SCHOLARS ENERGY COALITION (LS-EC): A Program of Undergraduate/Faculty Research Collaboration and Community Action” Submitted to the National Conference on Undergraduate Research Lancy Initiative. Status: Pending [\$62,500 NCUR/Lancy; Requested \$91,700, August 2006.

Bennett, Nicole; Tomlinson, John and Venable, Mark; “A Multidisciplinary Study of *Didelphis virginiana* Serum”. Submitted to the North Carolina Biotechnology Center. Requested \$140,000. October 2006

Bennett Nicole (Co-PI); Holder Grant (PI); Georgescu, Lucien (Co-PI); Nicole Thompson (Co-PI, Vocational and Technical Department, James Sprunt Community College) and Penny Peeler (Co-PI, Coordinator, Environmental Science Technology/Water Resource management, Western Piedmont Community College); **Marta Sanchez-Lastowska** (Senior Personnel); Kay Ruth (Senior Personnel, Wake Technical Community College); “The North Carolina Community Colleges for Excellence in Quality (NCCC-EQUAL) Program”; Submitted to the NSF-ATE Program. Requested \$493,000, October 2006.

Ramey, Michael. “Appalachian State University: The ChemSTAR Science Education Academy” Submitted to the Camille and Henry Dreyfus Foundation: Special Grant Program in the Chemical Sciences. Requested \$27,800 / 2 years, August 2006

Holder Grant and Georgescu, Lucian; “CLEVER: Center for High Altitude Viticulture Research and Production – Phase 1 Asset Survey”. Submitted to: Upper Mountain Research Station, NC Cooperative Extension, Appalachian State University, Creston Vineyards, Grandfather Vineyards, NC Rural Economic Development Center. 2006-2008. Requested \$15,000.

Holder Grant and Georgescu Lucian; “FERTILE: Feasibility of a Research Greenhouse Complex for Value-Added Agriculture and Industrial Economy”. Submitted to: Appalachian State University, UNC-Asheville, NC A&T, NCSU, Foothills Bio-Energetics LLC. Requested \$74,300. 2006

Puckett, Libby; “Forensic Science Curriculum Enhancement Project”. Submitted to the North Carolina Biotechnology Center. Requested \$66,700. August 2006.

Russell, Ray; Badureck Christopher; Colby, Jeffrey and **Holder, Grant;** Vineyard Management Data using Expert System (VINDEX), submitted to the North Carolina Grape Council. Requested \$14,997.57, October 2006

Steve Seagle, Johnny Waters, **Claudia P. Cartaya-Marin** and James Young. “Southern Appalachian Environmental Research and Education Center (SAEREC)”, submitted by **Chancellor Dr. Kenneth E. Peacock** to Federal agenda, Requested \$10M, (\$2.5M for the Department of Chemistry). January 2006

Alexander Schwab, “Metal Ligands Cross-Linked Elastomers: Recyclable Smart Materials”. Submitted to the Research Corporation. Requested \$64,809. May 2006.

Williams, Stephen; “Computational Quantum Chemistry Investigation of Oxygenated Species in Combustion”; Petroleum Research Fund; Request: \$55,000 July 21, 2006.

Tomlinson, John (PI), Babyak, Carol; Georgescu, Lucian and Schwab, Alexander; ”Health **B**enefits of North Carolina Vines: A Bioanalytical Survey of **A**nti-Oxidant Properties (BENEVOLENT)”. North Carolina Wine and Grape Council and Viticulture Consortium East. Requested \$13,050. October 2006.

Funded Grant Proposals

Allain, Eric “Ultrasonic Enhancement of Enzyme Activity on Cotton and Other Cellulosic Substrates” United States Department of Agriculture, \$28,970, 2006

Bennett, Nicole; Ramey, Michael; Wheeler, Dale; Cartaya-Marin, Claudia; Holder, Grant. "Providing Students with a Complete Toolbox for Chemical Analysis: Adaptation and Implementation of Problem Based Experiments Across the Curriculum at

Appalachian State University" Submitted to the Curriculum, Laboratory, and Instructional Division of the NSF. \$114,480 NSF; \$139,488 Appalachian State University/ 3 years], 2003.

Bennett, Nicole; Babyak, Carol, Cartaya-Marin, Claudia; Karatan, Ece, Neufeld, Howard; **Tomlinson John**, Tuberty, Shea and Venable, Mark; "From Molecules to Organisms: The Merck/AAAS Cross-Disciplinary Scholars (MACS)Program at Appalachian State University, Merck/AAAS Undergraduate Science Research Program, \$60,000 (for three years), 2005

Georgescu, Lucian and Holder, Grant; "WISELAB Mobile Laboratory Platform". GoldenLEAF Foundation. \$299,923. 2005

Georgescu, Lucian; Holder, Grant and Tomlinson J; "VALUE from byproducts of the Southern wine grape industry. Appalachian State Enology Group, Sandy Cross Vineyards, USDA (SSARE). \$9,925. 2006

Holder, Grant and Georgescu Lucian; Appalachian State University (US Government, Small Business Administration, GoldenLEAF Foundation, and Office of the President, UNC System. \$986,287. 2005

Holder, Grant; "Transatlantic Curricula in Agricultural Principles applied to Oenology, Viticulture, Natural Products, TAVPO". Submitted to the U.S. Department of Education, \$65,000. 2006