

**Research Experiences for Undergraduates at
The College of William and Mary in Virginia
Summer 2004**

Kyle Arnold, (Mentor: James Boyce), *Impact of Thomson X-rays on the FEL Mirrors.*

Keith Bechtol, (Mentor: Jeff Nelson), *Measurement of the Magnetization Curves in conjunction with MINOS.*

Crystal Bertoncini, (Mentor: Mark Hinders), *Ectobots.*

Sara Campbell, (Mentor: Russell Wincheski), *Eddy Current Analysis of Reinforced Carbon Carbon and Flowliner.*

Bryan DeBono, (Mentor: Phillip Williams and Russel Wincheski), *Separation of Carbon nanotubes in various solutions and surfactants.*

Peter de Castro, (Mentor: Genfa Wu), *ECR Particle Simulations.*

John DuChateau, (Mentor: Mark Hinders), *Proof-of-Concept studies in using Ultrasound Transducers in Non-Linear Acoustic Concealed Weapons Detection.*

Nathaniel Elberfeld, (Mentor: W. J. Kossler), *Positron Lifetime Measurements.*

Amelia Seleste Greer, (Mentor: Gwyn Williams), *Terahertz Light and its Applications.*

Brian Hahn, (Mentor: Todd Averett), *Frequency Sweep NMR on Polarized ^3He Target Cells.*

Pamela Jeppson, (Mentor: Jeff Nelson), *Analysis of Data taken from the Far Detector.*

Kristina Little, (Mentor: Michael Kelley), *Characterization of Oxide Surfaces for Planar Proxies.*

Donna McLaughlin, (Mentor: Michael Kelly and Jia Huang), *A Study of Organic Impurities on Optical Mirrors using Surface Characterization Techniques.*

Joseph D. Rowley, (Mentor: Gina Hoatson), *Nuclear Magnetic Resonance Spectroscopy: Using Model Compounds to understand Complex Structures.*

Rita Schneider, (Mentor: Gregory D. Smith), *Monte Carlo Simulation of Instantaneously-Coupled Ryanodine Receptors.*

David Sicilia, (Mentor: W. J. Kossler), *Magnetic Field Distributions in Type-II Superconductors.*

Meghan Snyder, (Mentor: Jeff Nelson), *MINOS Scintillator Testing in Preparation for R&D on the Proposed MINER ν A Experiment.*

David Wolcott, (Mentor: John Kane and Kevin Smith), *Measurement of μ^+ Lifetime through Cosmic Ray Shielding and its Application to MECO.*