# March Update 2004
# College of William and Mary
# Applied Research Center Student Newsletter

## Who has been using the equipment this month?

Mohamed Zayed Old Dominion University, Ph.D. Candidate in Electrical and Computer Engineering, is working on Melting of Nanocrystals using Reflection High Energy Electron Diffraction (RHEED). He is using the Atomic Force Microscope (AFM) to characterize his samples.

Shannon M. Watson, College of William and Mary Ph.D. Candidate in Applied Science is using the AFM to characterize materials she is working on. Her thesis work is on the effect of large-scale roughness on giant magnetoresistive multilayers and she is preparing the samples using DC Magnetron Sputtering.

Laura Wasylenki, visiting from Virginia Tech, PhD, (post-doc) in Geosciences. Laura is working with ToF-SIMS to analyze calcite crystals.

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Photographer: Natalie Pearcy and Olga Trofimova

Shameika Vick, Norfolk State University 2nd year graduate student in Materials Science using the Scanning Tunneling Microscope to characterize her samples.

## Lab Tours:

William and Mary Professor Jack Kossler (middle) and John Nemeth (left), the Vice President of Oak Ridge Associated Universities, toured the ARC and the FEL on Friday, March 19. Zhengmao "Frank" Zhu discussed his polymer work and the basics of the Fourier Transform Infrared Spectrometer (FTIR) during the tour.

## Featured Researcher:

## Christine Conrad

Christine Conrad is a graduate from Coastal Carolina University with a BS in Chemistry and Environmental Science. She is now a Ph.D. student at William and Mary's Virginia Institute of Marine Science, and is doing research in the investigation of molecular-level interactions between heavy metals and environmentally important reactive phases. For more information about Christine and her research, visit her JLab website at: http://www.jlab.org/ARC/WM/304/conrad.html