



November/December 2009 College of William and Mary



Applied Research Center Student Newsletter

James River Institute for Archeology



From left to right: Nicholas Moore, Merry Outlaw, David Hazzard, Nick Lucchetti, and Amy Wilkerson

On December 10th, Nick Lucchetti of the James River Institute for Archeology came to the Surface Characterization Lab along with David Hazzard of the Virginia Department of Historic Resources and Merry Outlaw of Archaeological and Cultural Solutions to view more samples from an excavation on Roanoke Island in North Carolina. Mr. Lucchetti is working with the First Colony Foundation performing archaeological research at the Fort Raleigh National Historic Site (NHS) on Roanoke Island. Fort Raleigh NHS is the site of America's first English colony which was established in the 1580s. At the excavation site, several artifacts have been found including a necklace of copper plates.

Nicholas Moore analyzed the samples and investigated a group of "reed" like fibers surrounding the necklace of copper plates. Using the Hirox Microscope, he was able to give Mr. Lucchetti and his fellow archeologists a more in depth view of the samples, including a three dimensional rotational microscopy analysis. This information will help them determine what the samples are made of and the technique used to create them. Mr. Lucchetti plans to use this information along with his other research findings, to support a proposal for a more massive and comprehensive excavation of the area where the necklace was found.

Laser and Plasma Technologies



Brandt Robertson is pictured here with Jim Newton and Teh-Hwa Wong of Laser and Plasma Technologies. Brandt provided an FTIR training sessions for them while they were visiting the lab.

William and Mary Students in the Labs



Doug Beringer and William Roach, William and Mary graduate students, joined the team at the lab on December 7th for training on the Atomic Force Microscope. Since completing the training session provided by Olga Trofimova, Doug has returned to the lab to complete research under Dr. Lukaszew.