

Contributors: Amy Wilkerson, Olga Trofimova, Brandt Robertson, Nicholas Moore, Song Vick, and Thomas Dushatinski

ARC LAB October 2014

XRF Workshop

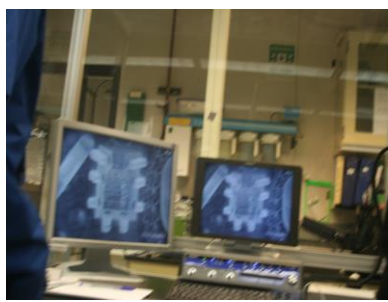


Amy and Brandt attended an XRF workshop led by Bruce Kaiser of Bruker AXS at the Williamsburg Foundation. The workshop included the basics of photon interaction theory, technology and safety, along with analysis with a handheld XRF analyzer called the Tracer.



L.E. Balance Electrical Services, Inc. performed infrared thermographic imaging along with visual and mechanical inspections of the electrical distribution system in Lab 119 on October 6th.

Lab Highlights



Kurtis Bartlett (Jefferson Lab) brought a sample they manufactured using a 3-D printer from Wooter Deconick, William & Mary Associate Professor in Physics, to the lab for analysis with the Hirox microscope.



Hani E. Elsayed-Ali, Professor of Electrical Engineering and Eminent Scholar at Old Dominion University, brought Dan Henkel, Research Manager at the Commonwealth Center for Advanced Manufacturing to the lab for a tour, and Amy was able to provide the lead for this request.

Lab Highlights



A group of Norfolk State University graduate students attended Hirox microscope, AFM, FT-IR and Phenom SEM training at the lab during October as part of their Materials Characterization Class given by Michael Kelley. The group included David Scott, Sohiela Mashhadi, Lumu Manandhar, Min Hyuck Kim, Irving Cashwell, Vincent Romo, Kevin Tanyi and Andre Taylor.



Clare Boczon, a William and Mary undergraduate, continued her research using the Phenom SEM and Lopa Das, a William & Mary graduate student, performed her research using the Tof-Sims.



Here's a great Hirox image taken by Brandt. Can you guess what it is?