William & Mary Geology
Senior Research Saturday, April 21st 2012
McGlothlin-Street Hall Room 219

Morning Session (10:00 a.m. – noon)
10:00 Opening Remarks
10:05 Ryan Love  
Morphometrics of Miocene Shark, Marine Mammal, and Reptile Teeth from the Calvert Formation, Mid-Atlantic Coastal Plain, USA
10:20 Amanda Grant  
Investigation of Pleistocene Oyster Population Structure and Growth Rates in a Piankatank River Reef, Virginia
10:35 Christine Solon  
Sexual Dimorphism and Species Selection in Late Cretaceous Ostracodes from the U.S. Gulf Coastal Plain
10:50 Isaac Clark  
Flow and Density Driven Sediment Dynamics shown by Dual Frequency Acoustic Sounder of the York River Estuary, Chesapeake Bay, Virginia
11:05 Dylan Reilly  
Determining the Significance of Agricultural Buffer Bypassing Channels
11:20 Doug Rowland  
Hydrologic and Geochemical Variables and their Effect on Groundwater Quality at Jamestown Fort, Virginia
11:35 Tess Engebretson  
Assessing Residence Time of Lead in Montane O Horizons, New England

Afternoon Session (1:00 p.m. – 2:45 p.m.)
1:00 Stephen Dronfield  
Tracking Mineralogical Changes in Stream Sediment Composition in the Vicinity of Willis Mountain, Virginia
1:15 Erin Kwon  
Task Value in Introductory Geology Courses and its Role in Student Learning & Retention
1:30 Megan Ambrose  
The Kinematic History of Brittle Deformation in the Petersburg Granite, Richmond, Virginia area
1:45 John Hollis  
Brittle Deformation in the Hylas Zone, eastern Piedmont, Virginia
2:00 Ben Huff  
Magnetic Anomalies in the eastern Blue Ridge, central Virginia: a Magnetic Interpretation of Subsurface Structure
2:15 Molly Hahn  
Structural Analysis of Brittle Deformation in the eastern Blue Ridge, central Virginia
2:30 Andrea Jensen  
Origin and Tectonic Significance of the Albemarle-Nelson Soapstone Belt and Associated Metagabbros, central Virginia
GEOLOGY HONORS PRESENTATIONS 2012

Lyndsey Funkhouser
Using GIS to Quantify Riparian Buffer Bypassing in the Coastal Plain of Virginia within the Chesapeake Bay Watershed

Emma Caverly
Ephemeral Organic Carbon Fluxes to the Chesapeake Bay Watershed from Agricultural Runoff on the Virginia Coastal Plain

Matt Sparacino
Variability of Erodibility in Bedrock-floored Channels Produced by Differential Weathering

Kevin Quinlan
Structural Geology of the Scottsville Mesozoic Basin, Virginia

A reception will follow the presentations in the Geology Department