Fall 2016 Awards

**Biological Sciences Department**
Faculty Sponsor: Dianne Baker
Students: **Sara Fioretti Laura Mangano** & - Functional analysis of kisspeptin receptors
Students: **Hannah Kass**- Effect of benzo[a]pyrene on expression of Alzheimer's disease marker genes in zebrafish

Faculty Sponsor: Rosemary Barra
Student: **Sabrina Elliott** – CTGF and the Onset of Fibrosis

Faculty Sponsor: Steve Gallik
Student: **Katherine Qualls** – Developing Plasmids for Cellular Localization Studies

Faculty Sponsor: Allan Griffith
Student: **TJ Muratore** – Soil Biogeochemical Effects on the Distribution of a Rare Aquatic Plant

Faculty Sponsor: Lynn Lewis
Students: **Crystal Cauley & Habiba Noor** – Probiotics and Yogurt's Effect on Lactose Intolerance
Student: **Julie Arnold**– Effects of Sweet basil extracts on Encephalomucarditis Virus

Faculty Sponsor: Deborah O'Dell
Student: **Miguel Marx**– A Comparative Paleo molecular Study Muscle Proteins
Student: **Ashley Otto**– Effect of Bisphenol S on Oncogene Expression in Mammary and Prostate Tissue

Faculty Sponsor: Parrish Waters
Students: **Hannah Belski** - Sex-specific mechanisms of BDNF and CRH in the BNST and influences on stress-related pathologies: a study in the neurobiological mechanisms of anxiety
Student: **Allie Branum**- The effects of ambient temperature in a mouse model of cognition
Student: **Emily Ferguson** - Development of a Novel Cognitive Testing Apparatus Using a Touchscreen and an Arduino
Students: **Phoebe Frye**- Food competition as a method to detect hierarchy in rodents
Students: **Ariel Peldunas**- Enriched Environment leads to physiological and structural changes in the olfactory bulb of rodents

Faculty Sponsor: April Wynn
Students: **Renee Hilelson** - How the Presence of the Genes EARLY RESPONSE TO DEHYDRATION 10(ERD_10), SUES (SEU), AND AINTEGUMENTA (ANT) Affect Developing Arabidopsis thaliana In the Early Stages of Ovule Development and Seed Production

Faculty Sponsor: Deborah Zies
Students: **Jeong Yun Choi** - Determining the Effect of Human MSH2 Mutations Using S. cerevisiae as a Model Organism

**Chemistry Department**
Faculty Sponsor: Nicole Crowder
Student: **Mitchell Greenwood**- Travel to MARCUS, NCUR, and Research on Click Reactions for CO2 Reduction
Student: **Sarah Heisey** - Travel to MARCUS, NCUR, and Research on Click Reactions for CO2 Reduction
Faculty Sponsor: Leanna Giancarlo
Student: **Mathew Tovar & Sarah Balenger** – Optimizing the use of Superparamagnetic Iron Oxide Nanoparticles to induce growth arrest in non-metastatic Glioma

Faculty Sponsor: Davis Oldham
Student: **Grace Henry** – Travel to NCUR and Research on synthesis and purification of KASA inhibitors for treatment of mycobacterium tuberculosis infection
Student: **Kwame Bempong** – Travel to NCUR and Research on synthesis of the enantiomers of chiral organic pollutants via enzymatic separation of 2-ethyl-1-hexanol

**Classics, Philosophy, & Religion Department**
Faculty Sponsor: Angela Pitts
Student: **Liam Deihr** – “Language of Flight in Euripides' Herakles”

Faculty Sponsor: Joseph Romero
Students: **Stephanie Buckler** - FLAVA Conference

Faculty Sponsor: Craig Vasey
Students: **Milen Mehari** - Black Lives Matter Movement: In Philosophy

**Computer Science Department**
Faculty Sponsor: Stephen Davies
Student: **Hannah Zontine** - Opinion Dynamics Research Paper

**Earth & Environmental Science Department**
Faculty Sponsor: Ben Kisila
Student: **Kirstin Frye** - Modeling the Effects of Predicted Increased Impervious Surfaces on Phosphorus Fluxes Using the Soil and Water Assessment Tool in Aquia Creek Watershed, VA, USA
Student: **Coalter Hollberg** - The Role of Floodplain and Wetland Soil Properties in Phosphorus Fluctuation in Aquia Creek, a Sub-watershed of the Chesapeake Bay
Students: **Lauren Mosesso & Lillian Johnson** - The impact of sea level rise on phosphorous dynamics in costal & upstream wetlands of the Rappahannock River, a sub-watershed of the Chesapeake Bay

**Economics Department**
Faculty Sponsor: Shawn Humphrey
Students: **Marina Castro Meirellas, Nancy Milroy, Alli Jakubek, Caitriona Cobb, Stephanie Vega, Leigh Beamer, Rachel Stanford, & Kelly Mason** – Challenge Discovery

Faculty Sponsor: Margaret Ray
Students: **Christopher Flurry, Todd Desgrosseilliers, Leonard Tarango, Hunter Rose, Olivia Nicotera, Nick Korovin & Alli Jakubek** – Fed Challenge Competition

**English, Linguistics, & Communication Department**
Faculty Sponsor: Colin Rafferty
Student: **Hallie Heinzen**- Fredericksburg

**Geography Department**
Faculty Sponsor: Dawn Bowen
Student: **Hallie Heinzen**- Fredericksburg Farmers Market
Faculty Sponsor: Caitlin Finlayson
Student: Clara Ludtke - Conference presentation SE Division of the Association of American Geographers
Student: Meredith Gregory, Clara Ludtke, Christian Meoli, & Michael Ryan - The Geography & Environmental Impacts of Consumer Food Preferences

Faculty Sponsor: Steve Hanna
Student: Christine MacKrell - More than just a Ghost Story; Plantations, Hauntings, and the Trivialization of Dark Tourism Experience

Faculty Sponsor: Joe Nicholas
Students: - Team VA in the World Geography Bowl Competition

Modern Languages and Literature Department
Faculty Sponsor: Mayson Al-Sayed Ahmad
Students: Catriona Cobb, Lydia Grossman, Justin Sevart, Gail Crunkhorn, Emily Rothstein, & Hassa Siddig - Conference presentations

Faculty Sponsor: Ana Chichester
Student: Andrea Mora Garcia - Postmodern Narrative Strategies in Jorge Volpi’s En busca de Klingsor (Honors Thesis), Readings & research on Jorge Volpi and postmodern studies
Student: Riska Perez-Castiello - Contemporary Cuban Women Writers

Music Department
Faculty Sponsor: Mark Snyder
Students: Austin O’Rourke & Danny Arslan - SCI Student National Conference
Students: Austin O’Rourke, Cole Masaitis, Arthur Dragone, Alex Rodriguez, Mya Payne, & Luke Payne - West Fork New Music Festival

Physics Department
Faculty Sponsor: Hai Nguyen
Student: Zaire Sprowal - Calibration of a High Efficiency Summing Detector (HECTOR) with Gamma Sources

Theatre and Dance Department
Faculty Sponsor: Kevin McCluskey
Student: Natascha Zelloe – Advanced Study in Fashion Theory

Faculty Sponsor: Gregg Stull
Student: Jamie Broadhead – Directing THE CHILDREN’S Hour
Student: Meghan Khaziran, Morgan Gresham, Kenneth Bellamy, & Neil Gallini-Burdick – First Year Play Festival