

Fall 2017 Awards

Art and Art History Department

Faculty Sponsor: Marjorie Och

Student: **Nina Witrich** – A Disputation: Lucrezia Borgia, Female Virtue, and the Hall of the Saints

Biological Sciences Department

Faculty Sponsor: Dianne Baker

Student: **Sara Fioretti** - Functional analysis of kisspeptin receptors

Students: **Laura Mangano, Reina Irby, & Makenzie Katzer**- Effect of benzo[a]pyrene on expression of Alzheimer's disease marker genes in zebrafish

Faculty Sponsor: Rosemary Barra

Student: **Abigail Barnett** – Apoptosis and caspase-3 activation in Cultured Lung Cancer Cells

Faculty Sponsor: Steve Gallik

Student: **Sarah Roche** – Nuclear Localization Studies with Green Fluorescent Protein

Faculty Sponsor: Lynn Lewis

Student: **Kirsten Littlefield** – The Effects of Treatment with Ultra-Dilute Phytolacca on MMTV Progression

Faculty Sponsor: Abby Tomba

Student: **Ana Ruuskanen**– Life Cycles of Digenetic Trematodes Infecting *Elimia virginica*

Faculty Sponsor: Parrish Waters

Student: **Alex Piercy** -The influence of cognitive exercise on memory

Students: **Shannon Becker & Mary Nethery**- Potential relationships between anxiety, dominance and central Serotonin

Faculty Sponsor: April Wynn

Students: **Rachel Evans** - Spatial and Temporal Gene Expression of ANTEGUMENTA (ANT) & EARLY RESPONSE TO DEHYDRATION 10 (ERD10) in *Arabidopsis thaliana*

Chemistry Department

Faculty Sponsor: Nicole Crowder

Student: **Poornima Sunder**- Honors Research on Synthesis of Tethered Electrocatalyst systems

Faculty Sponsor: Leanna Giancarlo

Student: **Andrew Franklin** – Sediment Accumulation rates and Pollution Analysis in Lake Manassas and Lake Occoquan

Faculty Sponsor: Davis Oldham

Students: **Sean Morris, Poornima Sunder, Ava Keefer, Lindsey Jones, & Hoang Anh-Tran** – Student presentations at SERMACS

Faculty Sponsor: Randall Reif

Student: **Kimberly McFarland** – Optimization of RNA Purification for SELEX

Student: **Sean Morris** - Temporal Dynamics of Apoptosis

Classics, Philosophy, & Religion Department

Faculty Sponsor: Jennifer Barry

Students: **Esther Hethcox & Julia Mitchell** – COPLAC Conference Presentations

Earth & Environmental Science Department

Faculty Sponsor: Pam Grothe

Student: **Andrea Moore** - Pavona Corals: A Novel Paleoclimate Archive

Faculty Sponsor: Ben Kisila

Student: **Grace Rihl** - Sediment Accumulation rates and Pollution Analysis in Lake Manassas and Lake Occoquan

Student: **Grace Rihl & Andrew Franklin** - Environmental Evolution of two Virginian reservoirs

Economics Department

Faculty Sponsor: Steve Greenlaw

Student: **Pablo Castillo** - How Student Usage Patterns of Adaptive Courseware Affect Learning Outcomes

Faculty Sponsor: Shawn Humphrey

Students: **Ryan Berry, Logan Burum, Mark Herring, Alli Jakubek, Liam Missios, & Hannah Rothwell** - La Ceiba Microfinance

Faculty Sponsor: Don Lee

Students: - Economic Scholars Program at the Federal Reserve Bank of Dallas

Faculty Sponsor: Margaret Ray & Tim Schilling

Students: **Allan Beers, Austin Edwards, Zainab Imbabi, Alli Jakubek, Christian Potter & Theodosius Zotos** – Fed Challenge Competition

Geography Department

Faculty Sponsor: Dawn Bowen

Student: **Hallie Heinzen**- Fredericksburg Farmers Market

Faculty Sponsor: Caitlin Finlayson

Student: **Katie Boston**- (Im) Perfect Food: A Visual Analysis of the Ugly Food Movement

Faculty Sponsor: Jackie Gallagher

Student: **Alistair Andrulis** - Drainage Basin Characteristics of a Small Stream at Crow's Nest

Faculty Sponsor: Steve Hanna

Student: **Eli McCleary**- Commemorative Inertia in Fredericksburg

Faculty Sponsor: Joe Nicholas

Students: - Team VA in the World Geography Bowl Competition

History & American Studies Department

Faculty Sponsor: Claudine Ferrell

Student: **Elisha Sese-Khalid**- The War Theatre of Jazz and Jim Crow

Modern Languages and Literature Department

Faculty Sponsor: Ana Chichester

Student: **Bernice Kear** - Spanish 491: Gender & Racial Representation in Afro-Caribbean & African Literature

Music Department

Faculty Sponsor: Kevin Bartram

Students: **Bethel Mahoney, Elyse Ridder, and Juliette Guilloux** - Unearthing America's Musical Treasures: The Library of Congress Project

Faculty Sponsor: Michael Bratt

Student: **Luke Payne** - Present original musical composition "Echoes of Yesteryear" at EMM conference

Physics Department

Faculty Sponsor: Maia Magrakvelidze

Students: **Brandon Rozek, Julia Arrington, & Ethan Ramirez** - High Performance Cluster System for Research and Education

Psychological Science Department

Faculty Sponsor: Hilary Stebbins

Students: **Katherine Hatton, Megan Jacobs, Erin Kaila, & Mollie Rhoades** - The interaction between sleep deprivation and dopamine levels on reward based learning

Theatre and Dance Department

Faculty Sponsor: Gregg Stull

Student: **Jamie Broadhead** – Directing THE CHILDREN'S Hour

Student: **Kevin DiCicco** – Devising 6 People Trapped in a Bunker

Students: **Neal Gallini-Burdick, Victoria Fortune, Madeline Petroskey, Cynthia Mullins, Erick Boscana, & Jessica Elkins** – First Year Showcase Festival