

Fall 2015 Awards

Art and Art History Department

Faculty Sponsor: Carole Garmon

Student: **Taylor White** – On Amplitude

Faculty Sponsor: Joe DiBella

Student: **Courtney Greathouse** – Exploring Portraiture: Senior Portfolio

Faculty Sponsor: Rosemary Jesionowski

Student: **Tyler Duenas** – Gathering Mass

Biological Sciences Department

Faculty Sponsor: Dianne Baker

Students: **Erica Falvey, Laura Mangano**– Development of the stress hormone axis in two model fish species

Faculty Sponsor: Rosemary Barra

Student: **Samuel Clark** – Complementary & Alternative Medicine in the Treatment of Ewing's Sarcoma

Faculty Sponsor: Steve Gallik

Students: **Kristina Krumpos, Rachel Thomas, Kristin Jones**– Engineering a Plasmid Expression Vector for Nuclear Localization Studies

Students: **Viraj Munshi, Aaron Sawyer** - A Study of Protein Diffusion Across the Nuclear Envelope

Faculty Sponsor: Alan Griffith

Student: **Kevin Speray**– Exploring the relationship between shade and incidence of seeding death, *Aeschynomene virginica*

Faculty Sponsor: Lynn Lewis

Student: **Sara Murphy** - A Study of the Antiviral Effects of Chloroquine & Rapamycin on Mouse Mammary Tumor Virus

Student: **Alexander Priest** - Identification of inhibitors of Fatty Acid Synthesis Enzymes in *Mycobacterium smegmatis*

Students: **Sara Murphy, Alexander Priest, Dana Baragh, Habiba Noor, Crystal Cauley, Julie Arnold, Amy Jayas**– Virginia Branch of the American Society for Microbiology Meeting

Faculty Sponsor: Deborah O'Dell

Student: **Tyrrell Graham**– Tau and Beta-Amyloid Interactions in Alzheimer's Disease

Student: **Brittany Hylander**– Relationship between S100B protein and RAGE expression in Vertebrates

Student: **Virginia King**– Cell phone Radiation Induced Mitotic Rate and Apoptosis levels in Human Glioblastoma Cells

Faculty Sponsor: Abbie Tomba

Students: **Teresa Nguyen, Margaret Magliato**– Molecular Identification of Digenetic Trematodes in the Rappahannock River

Faculty Sponsor: Parrish Waters

Students: **Hannah Belski, Meagan Darling**– A novel environment to examine social stress and hierarchy in mice

Student: **Emily Ferguson** - Developing a novel technological tool to assess cognition in laboratory mice

Chemistry Department

Faculty Sponsor: Davis Oldham

Students: **Kelly McDaniel, Lonnie Harris**– Synthesis of the stereoisomers of DEHP and its metabolites

Faculty Sponsor: Randall Reif

Student: **Samuel Clark**– Optimization of SELEX Parameters for RNA Aptamer Selection

Faculty Sponsor: Randall Reif

Student: **Sean Morris** - Temporal Dynamics of Caspase Activity on Jurkat Cells

Faculty Sponsor: Kelli Slunt

Student: **David Nunez**– Development of Biochemical Assays for Phthalate Ester Ligand

Earth and Environmental Sciences Department

Faculty Sponsor: Ben Kisila

Students: **Taylor Coxon, Rachel Hensen** - Modeling the Distribution of Trace Metals within the James River

Student: **Lauren Mosesso, Lillian Johnson** - Phosphorus Dynamics in Wetlands of the Rappahannock River Basin

Student: **Taylor Coxon**- The temporal and spatial distribution of trace metals in the fluvial and lacustrine environments of the southern Chesapeake Bay basin

Faculty Sponsor: Melanie Szulczewski

Students: **Maura Slocum, Taylor McConnell** - Initial Investigation into the Use of Phytoremediation to Address Legacy Pollution at a Virginia Site Affected by Acid Mine Drainage

Faculty Sponsor: Neil Tibert

Student: **Tammy Prescott, Megan Clevenger, Miles Neilson**- Sea Level Change in Tidal Marshes

Economics Department

Faculty Sponsor: Shawn Humphrey

Students: **Ana Hecton, Aashna Jain, Alex Rodriguez, Sepehr Sobhani, Nicole Scotti, Caitlin Turner-Lafving, Stephanie Loftus, Sam Fortier, Pete Shammass, Kelly Mason** - La Ceiba Microfinance

Faculty Sponsor: Margaret Ray

Student: **4 Students**- Economic Scholars Program at the Federal Reserve Bank of Dallas

Geography Department

Faculty Sponsor: Caitie Finlayson

Students: **Colin Cate, Steven Fernando** - Making Space Sacred in a Nontraditional Setting

Student: **Phillip Devine** - Visualizing Sacredness using Mental Maps and GIS

Student: **Christine Mackrell** - Gendered Experiences in Mosques: The Utilization of Sacred Space as a Tool for Marginalization

Faculty Sponsor: Steve Hanna

Students: **Ian Spangler, Xavier Griffin** - Searching for the enslaved in the "Cradle of Democracy": Virginia's James River plantation websites and the reproduction of local social memories

Faculty Sponsor: Joe Nicholas

Students: **3 Students**- Team Virginia in the World Geography Bowl Competition

Historic Preservation Department

Faculty Sponsor: Michael Spencer

Student: **Mary Fesak** - Gender and early-20th Century Equine Architecture

History and American Studies Department

Faculty Sponsor: Claudine Ferrell

Student: **Phillip Buterbaugh** - Harris & Janie Porter Barrett: Early Civil Rights Powerhouse Couple

Student: **Nathaniel Levine** - Law and Risk in nineteenth-century America: The Farwell Case

Faculty Sponsor: Claudine Ferrell

Student: **Christopher Noebels** - Shel Silverstein: Interpreting America

Mathematics Department

Faculty Sponsor: Randall Helmstutler

Student: **Christopher Lloyd**- Cryptology with Generalizes Dihedral Groups

Music Department

Faculty Sponsor: Mark Snyder

Student: **Austin O'Rourke** - West Fork New Music Festival

Student: **Mary Paige Rodgers** - West Fork New Music Festival

Student: **Daniel Shea** – Private Composition

Student: **Michael Prime** - West Fork New Music Festival

Political Science and International Affairs Department

Faculty Sponsor: John Kramer

Student: **Girard Bucello** - The European Security Community: A Case Study of European Policy towards the Baltic States

Faculty Sponsor: Chad Murphy

Student: **Emily Lowrie** – Data Analysis and Politics

Student: **Alexander Obolensky** - Data Analysis and Politics

Psychology Department

Faculty Sponsor: David Stahlman

Students: **Robyn Ellis, Antonio Nazario-Bortz** - The control of navigational variability in invertebrates

Faculty Sponsor: Laura Wilson

Students: **Robyn Ellis, Shawn Fraine, Jennifer Freud, Hannah Walker** – Meta-analysis of sexual victimization

Theatre and Dance Department

Faculty Sponsor: Gregg Stull

Student: **Julia Wells** - Directing EURYDICE