

Fall 2018 Awards

Biological Sciences Department

Faculty Sponsor: Dianne Baker

Student: **Rachel Summers** - Embryonic development of the stress hormone axis in teleosts

Faculty Sponsor: Rosemary Barra

Student: **Sara Fioretti** – Combined Effects of Statins and Chemotherapeutic Agents on Cancer Cells

Faculty Sponsor: Lynn Lewis

Student: **William Harrison** – The Effects of Digoxin and Doxorubicin on a breast cancer cell line

Faculty Sponsor: Abby Tomba

Student: **Anna Ruuskanen**– Trematodes of Cyprinids

Faculty Sponsor: Deborah O'Dell

Student: **Olivia Blake**– Dopamine Receptor Expression on Worker Honey Bees in response to Queen Mandibular Pheromone

Faculty Sponsor: Parrish Waters

Student: **Sarah Balenger** - Behavioral acquisition and analysis techniques in bilaterally bulbectomized CD-1 mice

Student: **Anna Rinko**- Patterns of Wheel-Running in Bulbectomized Mice

Faculty Sponsor: April Wynn

Student: **Emily Contompasis** - The Effects of Environmental Conditions on Expression of the ETTIN Gene in Perianthia Mutant Arabidopsis Thaliana

Chemistry Department

Faculty Sponsor: Leanna Giancarlo

Student: **Daniel Arango** – Metal Content of VA Reservoirs

Faculty Sponsor: Davis Oldham

Student: **Lindsey Jones** – Synthesis of piperidine-based inhibitors of KasA, an essential enzyme in M. Tuberculosis

Faculty Sponsor: Randall Reif

Student: **Catherine Zwemer** – The Temporal Dynamics of the Extrinsic Process of Apoptosis

Faculty Sponsor: Kelli Slunt

Student: **Catherine Zwemer** - Investigating the Temporal Dynamics of the Intrinsic Process of Apoptosis

Classics, Philosophy, & Religion Department

Faculty Sponsor: Daniel Hirshberg

Student: **Jarrett Ashby** – Secularism in Nepal: Case Study on the Transition from Monarchy to Secular State

Earth & Environmental Science Department

Faculty Sponsor: Pam Grothe

Student: **Kathleen Elliott** - Isotope Hydrology: the seasonality of oxygen and hydrogen isotopes in meteoric, fluvial and groundwater

Student: **Andrea Moore** - Constraining the Mid-Holocene ENSO Minimum in the Central Pacific Using Geochemistry of a 5,000 year-old Porites Fossil Coral

Student: **Cheyenne Palmo** - Water Isotope Semantics: A survey of paired salinity and $\delta^{18}O$ in Chesapeake Bay and its tributaries

Faculty Sponsor: Ben Kisila

Student: **Grace Rihl** - Sediment Accumulation and trace metal input in Lake Manassas and Lake Occoquan

Students: **Grace Rihl, Daniel Argo, & David Jett** - Sediment accumulation and trace metal input history in Lake Manassas and the Occoquan Reservoir

Student: **Lauren Chartier** - The Effects of Sand Mining on Crop Quality

Student: **Thanh-Binh Duong** - Assessment of Spatial and Temporal Distribution of Micro plastics in the Lower Chesapeake Bay Basin, USA

Geography Department

Faculty Sponsor: Dawn Bowen

Students: **Darby Libka & Jordan Chandler**- Memorialization of World War II on the National Mall

Faculty Sponsor: Jackie Gallagher

Student: **Eli McCleary** - Earthquake Preparedness in Children and Young Adults in Northern Virginia

Faculty Sponsor: Joe Nicholas

Students: - Team VA in the SEDAAG World Geography Bowl Competition

Faculty Sponsor: Melina Patterson

Students: **Lilly Lester, Hannah Woehrle, Lindsey Minges, & Sarah Giuseppe**- Exploring the Geographies of Children

Historic Preservation Department

Faculty Sponsor: Andrea Livi Smith

Student: **Iana Bleich**- The First Competition: Environmental & Cultural Sustainability in the Olympics' Built Environment

Faculty Sponsor: Lauren McMillan

Student: **Elizabeth O'Meara**- Wine Bottle Seals at Nomini Plantation Archaeological Site

Mathematics Department

Faculty Sponsor: Jeb Collins

Students: **Makenzie Clower & Riley Anderson** - Predicting Parameters for Bertini Using Neural Networks

Modern Languages and Literature Department

Faculty Sponsor: Maysoon Al-Sayed Ahmad

Students: **Gail Crunkhorn, Mackenzie Poust, & Chase Lacy** - Capital Area Regional Model Arab League Conference

Music Department

Faculty Sponsor: Michael Bratt

Students: **Arthur Dragone & Samuel Bradshaw** - Electro Acoustic Barn Dance

Psychological Science Department

Faculty Sponsor: Hilary Stebbins

Student: **Megan Jacobs** - Sleep deprivation, circadian rhythm, cortisol, and stress

Theatre and Dance Department

Faculty Sponsor: Gregg Stull

Student: **Patrick Regal** – All the Fine Boys

Students: **Aaron Hoffman, Victoria Fortune, Erin Foster, & Madeline Petroskey** – First Year Showcase Festival