Welcome

Dear Friends,

Welcome to the School of Arts & Sciences’ 25th Annual Student Research Symposium. I am excited to see so many students from across all the School of Arts & Sciences’ academic disciplines participating again this year.

The Student Research Symposium is celebrating its silver anniversary, and, with more than 200 student presentations taking place today, it’s the School of Arts and Sciences signature academic event showcasing student achievement and learning.

As the Research Symposium has grown, so too have undergraduate research opportunities within the School of Arts & Sciences. Undergraduate research lost its “for science students only” stigma long ago. Last summer, 187 students across the disciplines stayed on campus to complete undergraduate research projects thanks to research fellowships from the School of Arts & Sciences and other partner organizations.

The result of these opportunities come in the form of presentations such as the politics of vegetarianism, beauty standards of the middle ages, and American cultural imperialism in Chile. Of course, the sciences remain well represented at the Symposium, so be sure to explore talks and poster presentations on topics ranging from the structure of the molecular constituents of oil shale to the numerical methods for detecting chaos.

I’d also like to take the opportunity to thank the faculty of the School of Arts & Sciences. Mentoring undergraduate research is one of the most valuable contributions faculty make to a student’s academic development. It’s a job that requires countless hours, an unwavering commitment to the student’s success, and a good number of cups of coffee.

This morning a display honoring the life of one of our greatest mentors, the late Dr. Robert F. Smart, was unveiled during a ceremony held in the Gottwald Science Center (see back page). I invite you all to stop by the display panels, located on the first floor of the biology wing, and learn more about the former biology professor and Richmond College dean who contributed so greatly to the University of Richmond during his 43 years of service.

Best,

Andrew F. Newcomb
Dean, School of Arts & Sciences
Oral Presentations 1:30 – 1:40 p.m.

Elizabeth Boone
*Devil Walks Among Us: Witchcraft and the Community*
Theatre Complex 117

Chad Crigger, Jack Wisnesfske
*Coal's Exodus*
Booker Hall 216

Anthony Ferguson
*Satire in the Comix of Robert Crumb: An Investigation of “Joe Blow” and “Genesis”*
Theater Complex 102

Teri Preddy
*Trade-offs Associated with Co-rumination in Emerging Adult Friendships*
Gottwald C200

Visit [http://www.richmond.edu/visit/maps/](http://www.richmond.edu/visit/maps/) for a complete campus map. Gottwald Science Center is located down the hill from the Modlin Center for the Arts.

Key
To make it easier for visitors and participants to enjoy talks and poster presentations on topics of personal interest to them, oral presentations and poster presentations are color coded to reflect their connection to the School of Arts & Sciences’ four broad liberal arts disciplines: the arts, sciences, social sciences, and humanities.

All information was correct at the time of publication.
Oral Presentations 1:45 – 1:55 p.m.

- Lauren Davis
  *The Effect of Lip Reading on Learning Second Language Phoneme-Grapheme Mapping*
  Gottwald C 200

- Robert Dow, Steven Richards
  *Water: The Basis for Economic Expansion*
  Booker Hall 216

- Bridgette Weeks
  *Shepard Says, “Obey the Giant”: A Critical Analysis of Shepard Fairey's Street Art as Political Propaganda*
  Theatre Complex 102

- Alyssa Mankin
  *What’s Hot and What’s Not: Beauty in the Middle Ages*
  Theatre Complex 117

Oral Presentations 2:00 – 2:10 p.m.

- Claire Franczyk
  *The Critical Reception of Helmut Newton and the Problem of Porno-Chicness*
  Theatre Complex 102

- Caitlin Harman, Alison O’Keeffe
  *Lessons from Cuba: Restructuring the U.S. Health Care System*
  Booker Hall 216

- Eric VanEpps
  *Especially in this Economy: The Effect of Media Coverage of the Economy on Donation Intentions*
  Gottwald C 200

- Emil Mentz
  *Priest and Prophet Stagger: Puritan Morality and Beer in Early Modern England*
  Theatre Complex 117
Oral Presentations  2:15 - 2:25 p.m.

✧ Laura Bailey, Sarah Yurinich
  The Road to a Bright Future: How Psychosocial Interventions Can Reverse the Effects of Violence Related Stress on Education
  Gottwald C 200

✧ Lindsay Gaskill
  Ambrogio Lorenzetti’s Frescoes in the Sala dei Nove: A Study of Allegory in Image and Text
  Theatre Complex 102

✧ Caitlin Manak, Kaitlin Markoja
  Awareness of Mental Health
  Booker Hall 216

✧ Greg Montine
  TBD
  Theatre Complex 117

Oral Presentations  2:30 - 2:40 p.m.

✧ Nathan Bullock, Keylin Mejia-Tavarez
  Rhetoric of Socialism
  Webb Tower 101

✧ Michael Burns
  The Economic Motivations Behind British Imperialism in Kenya
  Booker Hall 217

✧ Beth Kelly, Emma Berry, Emma Greenspon, Helene Calabrese
  Heartland Alliance and UNICEF: Aiding the Next Generation in Iraq
  Gottwald C 200

✧ John Mancini
  Fluorescent Binol-Based Receptors
  Gottwald D 303

✧ Kaitlin Markoja, Caitlin Manak
  Mental Health in the Developing World
  Booker Hall 216

✧ Elise Reinemann
  Perceptions of Manet: Critical Reception from the 19th century to today
  Theatre Complex 102
Oral Presentations 2:45 - 2:55 p.m.

• Kathleen Lietzau
  Pseudonymous Diary Blogging: A Journey Through Time and Intentions
  Booker Hall 217

• Anna Parker, Tyler Steele
  Comparing theoretical and experimental evidence to describe systems like 8-oxo-2′-deoxyguanosine and similarly damaged DNA nucleotides
  Gottwald D 303

• Graham Sager-Gellerman, Maddie Cleland
  Access to Healthcare for Undocumented Persons in Richmond
  Booker Hall 216

• Dominique Simon
  American Nationalist Identity and the Evolution of a Common Enemy
  Webb Tower 101

• Katrina Spratford, Zack Owen
  Results and Recommendations for the Iraq Study
  Gottwald C 200

• Allison Watkins
  Petrarch and Ideals of Feminine Beauty and Grace in 16th Century Venetian Painting
  Theatre Complex 102

Oral Presentations 3:00 - 3:10 p.m.

• Drew Howell
  The Great Exhibition of 1851: The British and the “Other” Inside the World of the Crystal Palace
  Booker Hall 217

• Laura Major
  Palms in the Peruvian Amazon: a case study of economic and subsistence use on the Ucayali floodplain
  Theatre Complex 117

• Keylin Mejia Tavarez, Nathan Bullock
  Representing America: Socialist Fears and the Everyday Logic of Capitalism
  Webb Tower 101

• Diomedes Saldana-Greco
  Octadienediyne cyclization and conformational analysis of the resulting didehydro-cyclooctatetraene
  Gottwald D 303

• Maria Sebastian, Fran del Rosario
  Access to Healthcare for Undocumented Persons in Richmond
  Booker Hall 216

• Anna Von Heill, Alexandra Marolda
  Breaking the Richmond Bubble from Richmond to Iraq
  Gottwald C 200

• Natalie Franczyk
  Capturing Adolescence: An Analysis of the Film “Stand By Me”
  Theatre Complex 102
### Oral Presentations 3:15 – 3:25 p.m.

- **Nailah Cummings**  
  *Cyber-terrorism: How Real is the Threat?*  
  Webb Tower 101

- **Christopher Hilpl**  
  *Gender and Mourning in Post-War Fiction*  
  Theatre Complex 117

- **Alecia Houston**  
  *The Relationship Between Parental Involvement and Student Achievement at an Urban Elementary School in the Southeastern United States*  
  Booker Hall 216

- **Monica Rocha**  
  *The Scientific Method and Reproductive Technologies*  
  Gottwald C 200

- **Tyler Steele**  
  *Understanding the Conformational Preferences of Tenside Surfactants*  
  Gottwald D 303

- **Curtis Thomas**  
  *Social and Environmental Consequences of the Clean Development Mechanism in Costa Rica and Panama*  
  Theatre Complex 102

- **Jonathan Ashe**  
  *Bananas to the Regal*  
  Harnett Museum

### Oral Presentations 3:30 – 3:40 p.m.

- **Lauren Jennings**  
  *Possessing or Possessed? The Female Artist and Self Definition*  
  Theatre Complex 117

- **Emily Miller**  
  *Reverent Revolution: Catholic Feminists and the Reformation of the Church*  
  Gottwald C 200

- **D. Rasheed Nazeri**  
  *Campaign for Change: One Year Later*  
  Booker Hall 216

- **Beth Platt**  
  *Systematic Rape: a Form of Terrorism*  
  Webb Tower 101

- **Mierka Ross**  
  *The Dynamic Frottola: Changes in Italian music of the 1500s*  
  Theatre Complex 102

- **Zachary Soter**  
  *Japanese Expansionism and the Manchurian Incident*  
  Booker Hall 217

- **Bernard Wittmaack, Chad Crigger**  
  *The Propensity for Halogen Bonding in Group 14 Halomethane Analogues*  
  Gottwald D 303

- **Megan Bell**  
  *Distortion of the Urban Landscape*  
  Harnett Museum

* Exhibition talk in Harnett Museum
Oral Presentations 3:45 – 3:55 p.m.

Matthew Bober
Strained Rings and Sandwiches: A Theoretical Analysis of Conjoined Metallocene Complexes
Gottwald D 303

Jamie Brewer
ETA vs. State-Sponsored Terrorism in Spain
Webb Tower 101

Abbe Horswill
Does current US anti-human trafficking policy adequately provide for victim support?
Gottwald C 200

Maria Ribas
Both White and Black: Aesthetics As a Means To Retake Identity in Quicksand by Nella Larsen
Theatre Complex 117

Andrew Slater, Karin Eastby
Virginia the Battleground
Booker Hall 216

Zachary Soter
Gyokusai and Japanese Wartime Propaganda
Booker Hall 217

Amy Szerlong
Work in Progress
Theatre Complex 102

Leigh Donahue
What We Overlook *
Harnett Museum

Oral Presentations 4:00 - 4:10 p.m.

Glenn Carroll, Masato Tsuruta, Matt Llano
Far Away - Student Theatre Production
Theatre Complex 102

Anthony Ferguson
Spiritual Struggle Through Comic Fragmentation *
Harnett Museum

Rory Hilbrand, Victoria Kempter, Brian Kane, Typer Parks, Mengyang Sun
Numerical Methods for Detecting Chaos
Gottwald D 303

Peter Moshang
Torture, Civil Liberties, and National Security
Booker Hall 216

Jigna Solanki
The Effect of the Taliban on Women’s Employment in Afghanistan: Past, Present, and Future
Gottwald C 200

Rebecca Stewart
French Reception of Edgar Allan Poe and William Faulkner
Theatre Complex 117

Behnaz Varamini
The Effects of the 1979 Revolution on Women in Iran: An Everyday Lifestyle
Booker Hall 217

* Exhibition talk in Harnett Museum
<table>
<thead>
<tr>
<th>Time</th>
<th>Oral Presentations</th>
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</table>
| 4:15 – 4:25 p.m. | Dana Leigh Geraghty  
* Russia in a Vice-grip: Demographic Crisis, Alcohol, and the Government’s Response  
* Webb Tower 101  
* Alexa Gruber, Inaayat Wazir, Alex Regan  
* Maternal Health: A Comparison Between Insured and Underinsured Females in America  
* Booker Hall 217  
* Amanda Marziliano  
* A New Look at French Anti-Americanism  
* Booker Hall 216  
* Brittany Taylor  
* A Comedy of Horrors: The Grotesque in the Novels of Frances Burney  
* Theatre Complex 117  
* Ashley Foxen  
* Mind Your Manners *  
* Harnett Museum |
| 4:30 – 4:40 p.m. | Austin Bourdon  
* JC Bach’s Influence on Mozart’s Stylistic Development  
* Theatre Complex 102  
* Erin Clark  
* Mon Livre Ma Fait: Montaigne and Emerson In-progress  
* Theatre Complex 117  
* John Frey  
* Life in the Box *  
* Harnett Museum  
* Eunice Kim  
* Politics of Vegetarianism in the Post-Soviet Russia  
* Webb Tower 101  
* Danielle Lewis  
* On the Constitutionality of Hate Speech Legislation  
* Booker Hall 216  
* Lochrane Smith  
* Livia as Mater Patriae  
* Theatre Complex 117 |

*A* Exhibition talk in Harnett Museum
<table>
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<th>Time</th>
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| 4:45 – 4:55 p.m. | ![Benjamin Fancy](null)  
*A Vulgar Tradition: Moral Unity in Cinderella Variants*  
Theatre Complex 117  

![James Farr](null)  
*Lacan avec Russell: Have I Ever Met Myself?*  
Booker Hall 216  

![Drew Howell](null)  
*Confronting the Past: The Spanish Democracy and Francoist Sites of Memory*  
Theatre Complex 102  

![Gabrielle Misiewicz](null)  
*Atsiagbekor, Traditional Ensemble of the Anlo-Ewe*  
Booker Hall 217  

![Benjamin Morano](null)  
*Medvedev’s State of the Nation: Real Progress or Empty Rhetoric?*  
Webb Tower 101  

![Amy Mathis](null)  
*Utterances of Broken Space*  
Harnett Museum  

* Exhibition talk in Harnett Museum  

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| 5:00 – 5:10 p.m. | ![Tiffany Ferris](null)  
*Battered, Bloody, and Broken: Graphic Violence and Spectacle of Early Christian Martyr Accounts*  
Booker Hall 217  

![Rebecca Knight](null)  
*Early College High Schools and the Transition to College*  
Theatre Complex 117  

![Alexis Reynolds](null)  
*Don’t be Silly, Barbie Can’t Beat up G.I. Joe: Male Victims of Female Domestic Abuse*  
Booker Hall 216
Poster Presentations  1:30 – 2:30 p.m.

All poster presentations will be held in the atrium of the Modlin Center for the Arts.

- **Haseeb Ahmed, Matt Fanelli, Carol Parish**  
  *A Theoretical Investigation of the Structure and Reactivity of the Molecular Constituents of Oil Sand and Oil Shale*

- **Bryn Allen, Stephen Wilson**  
  *Novel Open alpha-alpha diimine ligands based on 2-formyl 1,8-naphthyridine: potential catalyst for CO2 reduction*

- **Nina Antani, Kerrissa Richards, Scott Masarkey**  
  *The effect of catecholamines on the iNOS pathway in the RAW264.7 Murine Cell Line*

- **Elvira Barron**  
  *Cognitive Differences between Aging Bilinguals and Monolinguals*

- **Emma Berry, Ivori Zvorksy**  
  *Gender Differences in Implicit Cognition*

- **Farren Billue**  
  *The Role of Methionine Residues in Activity and Subunit Communication in Malate Dehydrogenase*

- **Cain Bonniwell, Ben Pauerstein, J. M. Allmond, C.W. Beausang**  
  *Investigation of Structure of Gd and Tb Nuclei using STARS and LiBerACE*

- **Mackenzie Brown**  
  *Cell Quantification in the Lymphatic Hearts of Xenopus laevis*

- **George Byrnes, Allison Parker, Brian Sacchetta, Bennett Peterson**  
  *Effects of larval nutritional stress on vector immune traits in the yellow fever mosquito*

- **Justin Cook**  
  *Combustion of Asphaltenes*

- **Calina Copos**  
  *Testing Analysis Algorithms for the 2H(e,e'p)n Reaction*

- **Jasmine Cottle**  
  *Are own race faces processed more holistically?*

- **Smaranda Craciun, Stephanie Corsi, Eric Etchill, Brian Southall**  
  *Toward a One-Pot Heteroconjugate Addition – Oxidation – Diels-Alder Reaction*

- **Chad Crigger**  
  *Analysis of Heavy Analogues of Carbon: Dipole Moments, and the Linear Transit from Tetrahedral to Square Planar*

- **Kelly Crowley**  
  *Studies on the effect of C8 steric bulk in the replication of 8-oxo-2’-deoxy-guanosine by Klenow Fragment-exo*

- **Nailah Cummings**  
  *How Much Genetic Diversity is in the African Frog Hemisus marmoratus?*

- **Kendra Cunningham**  
  *Glide/Ligand Docking of Inverse Designed HIV-1 Protease Inhibitors*

- **Elvira Barron**  
  *Cognitive Differences between Aging Bilinguals and Monolinguals*

- **Emma Berry, Ivori Zvorksy**  
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- **George Byrnes, Allison Parker, Brian Sacchetta, Bennett Peterson**  
  *Effects of larval nutritional stress on vector immune traits in the yellow fever mosquito*
Poster Presentations 1:30 – 2:30 p.m. (continued)

- **Sarah Dinces, Tasha Baah, Jen Bodary, Sarah Byce, Tajh Ferguson, Kelly Rafferty, Desiree Sedio, Annie Sprick, Haddis Tujuba, Christopher Wright, R. Adam Franssen, PH.D., Craig H. Kinsley, PH.D.**
  Beware the Mom Rat: Reproductive experience makes the female braver, stronger and smarter

- **Sarah Dinces, Jane Berry**
  Singing and Breathing Effects on Cognition and Mood in Musicians

- **Callie Dowdy**
  Electrochemical Studies of Thin Films of Gold Nanoparticles: The Importance of Electronic Coupling

- **Jessica Dowe**
  How do images of Marie Antoinette represent changing gender definitions during her own time and subsequent centuries?

- **James Eaton, Lauren Firish, John Stafford, Peter Barelli, Emily Kluball, Nakul Telang, John Gupton**
  The Application of Haloenoic Acids and Derivatives to an Efficient Synthesis of Highly Functionalized Pyrrolinones

- **Lyrica Fils-Aime**
  Symptoms of ADHD and Relationship Quality

- **Sally Fisher, Jenna Landers, Meredith Weck**
  Molecular Dynamics Study of the Kinesin Cargo-Binding Domain

- **Nathan Follin**
  Correcting for Thermal Drift in Atomic Force Microscopy

- **Garrett Graham, Natalie Omattage, Caitlin Smith, Jack Shaw**
  The Transfer Function for the Heat Stress Detector in Mammalian Cells

- **Amanda Haviland**
  Coins of the Ancient World

- **Shannon Hedrick**
  The Varied Roles of Conserved Arginine Residues near β-turns in Glyoxysomal Malate Dehydrogenase

- **Rory Hiltbrand, Victoria Kempter, Brian Kane, Tyler Parks, Mengyang Sun**
  Numerical Methods for Detecting Chaos

- **Nellie Jenkins, Eric VanEpps, Tenaj Ferguson**
  I-Cubed Model of Weight

- **Daniel Kinka, Kathryn Roberts, Cindy Bukach**
  The interaction of structural and conceptual information determines object confusability

- **Patricia Laverty, Will Lambdin, Sadia Gado, Jordan Cates**
  Wavelets and their Applications

- **Claire Ligon**
  Studies into the Extension Past the Promutagenic DNA Lesion 8-oxo-2'-deoxyguanosine with Two Bacterial Polymerases

- **Kaitlin Markoja**
  Examining the Effect of ADP on the Stability of Glutamate Dehydrogenase

- **Kim Ray**
  Surface Tension: Pattern, Texture, and Rhythm in Art from the Collection

- **Kristen Rhaney, Lyrica Fils-Aimé, Teri Preddy, Kelly Larsen, Bethany Palmer, Kellie Clark, Matt Llano, Kristen Rhaney, Beth Kelly, Emma Greenspan, Melanie Watkins**
  Co-Rumination in three close relationships

- **Hao Zhong**
  Conformational Study of Adenine-based Fluorescent Receptors
Poster Presentations 2:30 – 3:30 p.m.

All poster presentations will be held in the atrium of the Modlin Center for the Arts.

- Lauren Butler, Kilb, Usubalieva, Butler, Wicher, Berry
  I’d Recognize You Anywhere (or Not...I Blame My Age!)

- Lauren Davis, Katie Apolinario
  The Effect of Lip Reading on Learning Second Language Phoneme-Grapheme Mapping

- Carolyn Doherty
  Greening the tourism sector of the Caribbean region with alternative energy sources

- Benjamin Fancy
  Knowledge and Virtue in Marguerite de Navarre’s Heptameron

- Daniel Kinka, Jessie Lustig, Cindy Bukach
  Do Shared Dimensions Inhibit Object Perception

- Jessica Knight, Jane Berry and Kristen Stalter
  The Effects of Physical Fitness on Memory and Well-Being in Older Adults

- Kristen Jobes
  Rational development of an electrocatalyst for reduction of carbon dioxide to carbon monoxide

- Lauren Butler, Kilb, Usubalieva, Butler, Wicher, Berry
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- Kristen Jobes
  Rational development of an electrocatalyst for reduction of carbon dioxide to carbon monoxide

- Robert Heler, Daniel Darakchiev
  Computation Integrity in Distributed Volunteer Computing Platforms

- Michael Henry, Alan DeLorenzo
  Theoretical and Experimental Studies of the Half- and Full Sandwich Complexes of the Phenalenyl Radical

- Christopher Hooper
  Evidence for a symbiotic relationship between bacteria and the octocoral leptogorgia virgulata

- Diana Iovan
  Cross-Coupling Reactions of Hydroborated Vinyl Compounds

- Xin Jia, Mona Hovaizi, Scott Welden, Kayleigh Hall, Kara Finzel, Peter Barelli, Nakul Telang
  The [2,3]-Sigmatropic Rearrangement of Vinamidinium Salt Reduction Products

- Kristin Jobes
  Rational development of an electrocatalyst for reduction of carbon dioxide to carbon monoxide

- Thomas Johnson
  Theoretical Chemistry

- Matthew Jordan
  Determining the Systematic Uncertainties of the Fifth Structure of the Deuteron

- Daniel Kinka, Jessie Lustig, Cindy Bukach
  Do Shared Dimensions Inhibit Object Perception

- Jessica Knight, Jane Berry and Kristen Stalter
  The Effects of Physical Fitness on Memory and Well-Being in Older Adults

- Jenna Landers, Sally Fisher
  A Molecular Dynamics Study of a Tetraicopeptide Repeat Protein
Poster Presentations 2:30 – 3:30 p.m. (continued)

- **Courtney Lee**  
  Do we know what we know? Self-assessment across the Life Span

- **Virzhiniya Lekova**  
  *The Effects of Nucleotides on Hexamer Stability of Glutamate Dehydrogenase*  

- **Shijii Liu**  
  How Does Stress Affect Working Memory and Executive Function in Adulthood?

- **Sarah Lucier**  
  *The Permeability of Social Cliques from Real Worlds to Virtual Worlds*

- **Emily Marshall**  
  Isolation and Characterization of Pigments Produced by Bacteria Associated with Chesapeake Bay Sponges

- **Melanie Martin**  
  Spirituality and Religiosity of First Year Students

- **Nathaniel Mason**  
  Modular decomposition in heat shock systems

- **Andrew Massaro**  
  Selective filtration in the tropical marine sponge Rhopaloeides odorabile: impacts of elevated seawater temperature on feeding

- **Timothy McLlarky**  
  Death Valley Microbes - They’re Hot!

- **Paige Miller**  
  Anther structure in the Tomatillo, Physalis philadelphica (Solanaceae)

- **Jessica Miller, Emily Ruzich**  
  Styles of perceptual expertise processing as a function of training: an ERP study

- **Mark Moog**  
  Neutron Detection Efficiency of the CLAS12 Detector

- **Emily Nelson**  
  *Graphics Based Simulation Programming*

- **Cecilia O’Leary**  
  Identification & Localization of Bacterial rRNA Inside Soil Nematodes Using Fluorescent in situ Hybridization

- **Daniel Ochoterena**  
  Assessing the impact of different output gap estimates on the Taylor rule

- **Emily Pratt**  
  *Nutrition and Exercise Perceptions*
Poster Presentations 3:30 – 4:30 p.m.

All poster presentations will be held in the atrium of the Modlin Center for the Arts.

- Julia Czecfh, Amy Nicholas  
  Hacimusalar Excavation 2009

- Lyrica Fils-Aimé  
  Social Enterprises: Evaluation of Performance Management

- Gabriel Gigliotti  
  Impact of Government Stimulus Programs on the Economy

- Juliette Jeanfreau, Nicole Rahl, Audrey Innella, Hannah Rolfes, Brianna Leporace Lauren Milam, Natalie Perkins, Kate Reilly, Katie Nunziata, Alex Voie  
  Strapped

- Victoria Kidder, Mauricio Olazabal, Max Prokell, Kevin Romesser  
  Hook the Sharks

- Daniel Kinka, Tim Vickery, Steven Daniel, Emily Schworer, Cindy Bukach, Isabel Gautheier  
  Are label associations necessary for the acquisition of expertise?

- Alyson Koonin, Colin Sweeney, Ivori Zvorsky  
  The effect of physical setting on explicit alcohol cognitions

- Maria Lindell  
  Using Nucleotide Analogues to Better Understand the Replication of 8-oxo-2’-deoxyguanosine by Pol I from a Thermophilic Bacteria

- Rachel McMullan, Phil Durney  
  Using Chiral-HPLC to Identify and Quantify Enantiomeric Products

- Gabrielle Misiewicz  
  Atsiagbekor, Traditional Ensemble of the Anlo-Ewe

- Mark Moog  
  Neutron Detection Efficiency of the CLAS12 Detector

- Sarah Nagel  
  Visual Narration: Children’s Literature

- Dalsher Nagra  
  Reactions of Pyrroles with An Electron-Rich Pi-Basic Tungsten Complex

- Katherine Nicholas, Spencer Harris  
  Isolation and Characterization of Pigments Produced by Bacteria Associated with Chesapeake Bay Sponges

- Benjamin Pauerstein, C. Bonniwell, C. W. Beausang, J. M. Allmond  
  Gamma Ray Spectroscopy of Gadolinium and Terbium Nuclei

- Dan Popescu  
  Stochastic Signal Transduction by G-protein Coupled Receptors

- Sarah Porter  
  Running Western to Examine Role of Chaperone in Protein Cleavage Mediated Polyglutamine Toxicity

- Kyle Quinn  
  The Effect of Prolonged Exposure of E. coli with Macrolide Antibiotics

- Kristen Qutub  
  Proteomics of Machado-Joseph Disease Using a Drosophila-melanogaster Model

- Jimmy Rague  
  Zinc-Catalyzed Addition of Terminal Alkynes to Dimethyl Acetals in the Presence of TMSOTf

- Sarah Rhoads, Brian Borkowski  
  Characterizing the Binding Domain of the NR2D Ionotropic Glutamate Receptor

- Steve Richards  
  Transcriptional Dysregulation and SOD2 in a Fly Model of MJD
Poster Presentations 3:30 – 4:30 p.m. (continued)

✿ Megan Riley
FISHing for Fungi

✿ Hannah Rolfs
Tangent Relations

✿ Megan Sebasky
Predictive Habitat Modeling of the Mountain Monkey Flower, Mimulus tilingii

✿ Andrew Simmelink
Genetic Manipulation of CREB Binding Protein Expression and its Role in the Human Brain Degenerative Disease Spinocerebellar Ataxia-3 / Machado Joseph Disease in the Fly Eye

✿ Emberly Sinclair, Lindsay Myerberg, Amy Demoreuille
Self-Regulation and Forgiveness

✿ Nicki Smith
Conformational Analysis of the Neurosteroids PregaS and PS

✿ Alison Smith
I think I can, I think I can, I think I can...Swim!

✿ Ryan Smout
Spatial strategies for interpreting math

✿ Gregory Springsted
Molecular Dynamics Analysis of HIV Protease

✿ Kristen Stalter
Self-Efficacy on Musical Performance in Aging Musicians

✿ Rachel Starr
Concepts of “The Feminine” in Ancient Art

✿ John Stewart
Building Bridges: Rationalizing Structural Preferences in the Group 12 dibalide Trimers (MX2)3 M = Zn, Cd and Hg; X = F, Cl, Br, I.

✿ Colin Sweeney, Ivori Zvorsky, Alyson Koonin
The effect of physical setting on implicit alcohol cognitions

✿ Crystal Thornhill, Sarah Yurinich
Implicit cognition and balanced identity: Are men and women on or off-balance?

✿ Gabriela Timoney
The Effect of Fatty Acid Chain Length and Saturation on Kv4.2 Channel Inhibition

✿ Joanna Ubiwa, Hannah Ornell
Race and emotional expression

✿ Eric VanEpps
Compelled to give: Morality, self-construal and charitable intentions

✿ Morgan Vargo, Tran Doan
Protein electrochemistry of azurin at nanoparticle film assemblies vs. self-assembled monolayers: Molecular level interfacial control

✿ Melanie Waligura
From Underdog to Top Dog: Changes in Evaluations of Competitively Disadvantaged Individuals

✿ Thomas Walter
The Role of NtrBC and Nac in Shigella Virulence

✿ Greg Wells
Testing the Mechnosensitivity of a Sponge Potassium Channel

✿ Bernard Wittmaack, Chad Crigger, Kelling Donald
Charge Distribution and the Propensity for Halogen Bonding in Group 14 Halomethane Analologues

✿ Matthew Llano, Glenn Carroll
Far Away

✿ Arts ✿ Social Sciences ✿ Sciences ✿ Humanities
The School of Arts & Sciences is the largest of the University of Richmond’s five schools, composed of more than 2,000 liberal arts majors and the University’s entire first year class. The school is made up of 22 departments, 12 interdisciplinary programs, three academic support centers and both the University Museums and the Modlin Center for the Arts.

The School of Arts & Sciences is dedicated to helping students explore the liberal arts through intellectual inquiry, shared investigation, and creativity. Faculty and staff want to build a community whose members pursue knowledge for its intrinsic value and its contributions to professions, society, and the world.

To accomplish that goal, the School of Arts & Sciences is in equal parts devoted to providing students with undergraduate teaching that blends intimacy with rigor, undergraduate research experiences that expose students to primary research early and often, and undergraduate advising that helps students visualize, and prepare for, just how far a degree in the liberal arts can take them.

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A display commemorating the life of Dr. Robert F. Smart and his contributions to the University of Richmond was unveiled this morning during a ceremony held in the Gottwald Science Center. The display is located on the first floor of the biology wing, outside of room A101.

As a young man, Dr. Robert Smart wanted to be a farmer. Instead, he decided to attend Mississippi College on the advice of his father, but retained a life-long interest in the study of botany.

Smart graduated from Mississippi and headed north to Harvard University. After earning his master's degree, he accepted the position of associate professor of biology at Richmond, where he would work for the next 43 years.

Robert and his wife Eleanor bought a home in Westham, off University Drive. They welcomed the birth of their son Robert in 1933, and daughter Eleanor Tucker in 1940. In 1941, Smart became chair of the biology department, along with chair of the division of sciences and mathematics. He served in both positions for 16 years.

In 1957, Smart was asked to replace the much beloved Dean of Richmond College, Raymond Pinchbeck, after Pinchbeck's death. Reluctant to leave the classroom entirely, Smart continued to teach a one-credit hour course in human biology. As a result of that class, Smart taught every young man who attended Richmond between 1957 and 1969, building relationships that would last long after his career ended.

The last five years of Smart's career at Richmond were spent serving as the university's first provost, working under both presidents George Modlin and Bruce Heilman.

Smart retired in 1972, and the university conferred upon him an honorary doctorate of science. He didn't disappear from campus, however. Students and faculty frequently saw him on his early morning nature walks around the lake, and he remained active in the life of the biology department. He and Eleanor traveled to far off places and enjoyed their grandchildren. Smart died in 1997 and is buried in Hollywood cemetery, where a grave marker reads, “An educator by nature.”