A celebration of student and faculty collaborative achievement in research and the creative arts

University of Richmond • Modlin Center for the Arts • Friday, April 17, 2009
Dear friends,

Welcome to the School of Arts & Sciences' 24th Annual Student Research Symposium. We're excited to see so many students from across all the School of Arts & Sciences' academic disciplines participating in this year's event.

The Student Research Symposium was launched in 1986. Chemistry professor Bill Myers and some of his colleagues and students agreed that science students needed a place to showcase the research results they were achieving in the laboratory. Astronaut and alumnus Leland Melvin, '87, was one of the students who presented his research that year.

Since then, undergraduate research opportunities within the School of Arts & Sciences have exploded. Undergraduate research lost its science "stigma" long ago. Last summer, 170 students received undergraduate summer research fellowships thanks to research support from the School of Arts & Sciences and other partner organizations.

The results of these opportunities come in the form of presentations such as Russian chair dance, twentieth century Irish feminism, and the music of the 2008 Beijing Olympic Games. Of course, the sciences remain well represented at the Symposium, so be sure to go to a full range of talks and poster presentations on topics such as a conformational analysis of HIV-1 protease inhibitors or the effect of membrane thickness on SPMD sensors. With over 150 student participants, there's truly something for everyone.

I want to take the opportunity to thank the faculty of the School of Arts & Sciences. Mentoring undergraduate research is one of the most valuable contributions one can 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.

I hope you will also join us at 7:30 this evening (see inside back cover) for a special tribute to Galileo and the 400th anniversary of his first astronomical use of the telescope. Hosted by the Richmond Astronomical Society and the Department of Physics, we're celebrating the international year of astronomy and the fact that every revolutionary breakthrough begins with just one good idea.

Best,

Andrew F. Newcomb
Dean, School of Arts & Sciences
Oral Presentations 1:00 – 1:10 p.m.

Merrill Greulich
19th Century Academic Art: Revisionist Storytelling in the University and the Museum
Advisers: Margaret Denton and Stephen Addiss
Theatre Complex A102

Joshua Huffines
Cross Cultural Regulation: An Analysis of Pesticide Regulation in the U.S. and Japan
Adviser: Elizabeth Ransom
Booker Hall B217

Oral Presentations 1:15 – 1:25 p.m.

Lisa Williams
Women of French Impressionism
Advisers: Margaret Denton and Stephen Addiss
Theatre Complex A102

Mierka Ross
Bach to the Daily Ground
Adviser: Gene Anderson
Booker Hall B217

Melanie Griguts
Native American Identity and the Jessie Short Case
Adviser: Jan French
Theatre Complex 117

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.

Art
Science
Social Science
Humanities
Oral Presentations 1:30 – 1:40 p.m.

Salmaan Ayaz
Islam and America: What We Share
Adviser: Yucel Yanikdag
Booker Hall B217

Benjamin Delk
An Epic Battle Between Hero and Villain: The Binary Construction of Imagined, Polarized Identities through US History and the Aftermath of 9/11
Advisers: Sheila Carapico and John Treadway
Gottwald Science Center 114

Meagan Estep
The Reliquary of Saint Barbara: Female Corporality and Medieval Piety in 15th Century Germany
Advisers: Margaret Denton and Olenka Pevny
Theatre Complex A102

Julie Kokemor*
Kolkata: Sex Worker and Family Unit
Advisers: Dorothy Holland and Tara Rebele
Theatre Complex 117

Ashley Davis*
Exploring and Developing Painting Techniques Using Acrylic Paint
Adviser: Tanja Softic
Harnett Museum of Art

*Exhibition talk

Oral Presentations 1:45 – 1:55 p.m.

Kyle Bell
A Crisis of Confidence: Jimmy Carter and the Hispanic Community
Adviser: Eric Yellin
Booker Hall B217

Lindsay Ganter
Architectural Identity: The Classification and Comprehension of the Architecture of Antoni Gaudí
Advisers: Margaret Denton and Stephen Addiss
Theatre Complex A102

Sarah Gordon
The Effects of the Political Violence in South Africa on Zulu Gender Relations
Advisers: Jan French and Joseph Obi
Gottwald Science Center 114

Andrew Howell
Remembering and Forgetting: A Dictatorship and a Democracy
Advisers: Catherine Simpson and Carlos Valencia
Theatre Complex 117

Neil Manek
The Intersection of Perimeter Minimization Problems and Epithelial Cell Structure
Adviser: Michael Kerckhove
Gottwald Science Center 112

Sara Perkins*
Art and Faith: Seen and Unseen
Adviser: Tanja Softic
Harnett Museum of Art

*Exhibition talk
Oral Presentations 2:00 – 2:10 p.m.

🌟 Ramon Bullard  
*The Project: Bahamian Farmworkers in the United States*  
Advisers: Eric Yellin and Robert Kenzer  
Booker Hall B217

🌟 Lucy Green  
*Snap, Crackle, and POP: the art, photography, and attitude of Andy Warhol*  
Advisers: Margaret Denton and Richard Waller  
Theatre Complex A102

🌟 Ethan Long  
*Linguistic Landscape of Three Streets in Barcelona: The Relationship Between Demographic Composition and Language Visibility in Public Space*  
Adviser: Sharon Feldman  
Gottwald Science Center 114

🌟 Lindsay Myerberg, Sarah Burd, Zachary Lake, Yin Ming Leung, Katherine Mariani, Mallory Montgomery, Lindsay Myerberg, Ryan Smout, Haddis Tujuba, and Bridget Wiede**  
*Russian Chair Dance*  
Adviser: Anya Baranova  
Theatre Complex 117

🌟 Daniel Shoemaker*  
*Video Works*  
Adviser: Tanja Softic  
Harnett Museum of Art

**Performance  
*Exhibition talk

Oral Presentations 2:15 – 2:25 p.m.

🌟 Kristy Burkhardt  
*The Politics of Country Music*  
Adviser: Paul Achter  
Theatre Complex 117

🌟 John Chase  
*General Jonathan M. Wainwright and his Experiences as a Prisoner of the Japanese*  
Adviser: Robert Kenzer  
Booker Hall B217

🌟 Brent Follin  
*Measuring the B-mode Polarization of the Cosmic Microwave Background*  
Adviser: Ted Bunn  
Gottwald Science Center 112

🌟 Kelly Hughes  
*The Greco-Roman Inheritance Of Byzantine Coinage*  
Advisers: Margaret Denton and Olenka Pevny  
Theatre Complex A102

🌟 Jennifer Proch  
*An Investigation into the Roots of Ethnic Conflict in Sri Lanka*  
Adviser: John Gordon  
Gottwald Science Center 114

🌟 Emily Viviani*  
*Explorations in Narrative*  
Adviser: Tanja Softic  
Harnett Museum of Art

*Exhibition talk

**Performance  
*Exhibition talk
Oral Presentations 2:30 – 2:40 p.m.

Jennifer Donohue  
*Catholic Nationalism and Feminism in Twentieth Century Ireland*  
Advisers: John Gordon and Robert Kenzer  
Booker Hall B217

Sarah Gehrke  
*Tracking of Students in Secondary Education: Then and Now*  
Adviser: Jennifer Erkulwater  
Gottwald Science Center 114

Audie McDougall  
*An attack on Modernism: How Hitlerian Art Shaped a Culture*  
Advisers: Margaret Denton and Richard Waller  
Theatre Complex A102

Rachel McFarland  
*Violence as Symbolism: Basque Nationalism under Fascism and Democracy*  
Adviser: Kevin Kuswa  
Theatre Complex 117

Meredith Stackhouse*  
*A physiological exploration of the figure*  
Adviser: Tanja Softic  
Atrium

*Exhibition talk

Oral Presentations 2:45 – 2:55 p.m.

Jill Eisenberg  
*On the Record: The Visibility of Race, Class, Gender, and Age in Richmond, Virginia’s Newspaper Coverage of the 1960s Sitdown Movement*  
Advisers: Robert Kenzer, Melissa Ooten, and Amy Howard  
Booker Hall B217

Lauren Grewe  
*Creating the Modern Myth: Skepticism, Authority and the Other in T.S. Eliot’s The Waste Land and Hart Crane’s The Bridge*  
Adviser: Peter Lurie  
Booker Hall B216

Christina Moore  
*Communicative Violence in Romantic Relationships*  
Advisers: Archana Bhatt  
Theatre Complex 117

Zachary Orefice  
*Augustan Classicism: The Visual Language which Defined an Empire*  
Advisers: Margaret Denton, Olenka Pevny, and Julie Laskaris  
Theatre Complex A102

Erik Stofberg  
*Federal Support of Public Secondary Education*  
Adviser: Jennifer Erkulwater  
Gottwald Science Center 114
Oral Presentations 3:00 – 3:10 p.m.

Christopher Florio
*The Politics of Insurrectionary Possibilities*
Advisers: Eric Yellin and Robert Kenzer
Booker Hall B217

Stephen Hess
*A More Perfect Union*
Adviser: Suzanne Jones
Booker Hall B216

Michael Rogers
*Learning about the N Word through the Boondocks*
Advisers: Kevin Kuswa, Paul Achter, and Andrea Simpson
Theatre Complex 117

Olivia Romeo
*Pierre Bonnard: His life and works through a modernist lens*
Advisers: Margaret Denton and Stephen Addiss
Theatre Complex A102

Jennifer Williams
*The Courts as Policy-Makers: A Medical Malpractice Case Study*
Adviser: Jennifer Erkulwater
Gottwald Science Center 114

Oral Presentations 3:15 – 3:25 p.m.

Rebecca Frazier
*Can She Ever Be “The Man”?: The Effect of Gender on Implicit Perceptions of Leadership Ability in an Applied Hiring Task*
Advisers: Crystal Hoyt and Cindy Bukach
Gottwald Science Center 114

Jacob Johnson
*Political Slavery and National Identity: Revolutionary Rhetoric of Eighteenth-Century Irish and American Patriots*
Advisers: John Gordon, Woody Holton, Robert Kenzer
Booker Hall B217

Brianna May
*Fighting for Better Race Relations, Fighting to Maintain White Privilege: Thea and Lyle in Christine Wiltz’s Glass House*
Adviser: Suzanne Jones
Booker Hall B216

Sarah Singletary
*The masculine victim in Serbian nationalism*
Adviser: Tuba Inal
Theatre Complex A102

Jessica Thaller
*Lines of Nation, Lines of Flight: Retroping U.S. Immigration Policy*
Adviser: MariLee Mifsud
Theatre Complex 117
Oral Presentations 3:30 – 3:40 p.m.

- **Genna Murray**
  Mixing Business with Pleasure: An Examination of Interracial Relationships During Slavery
  Advisers: Robert Kenzer and Woody Holton
  Booker Hall B217

- **Jennifer Patchen**
  *A Dialogue Between Sisters: The Dangerous Lover in the Texts of the Brontes*
  Adviser: Elisabeth Gruner
  Booker Hall B216

- **Danielle Pycroft**
  *The time taken for female athletes to recover to optimum performance levels after extensive knee surgery*
  Adviser: Anya Baranova
  Gottwald Science Center 114

- **Sarah Smith**
  *Montaigne’s cabbage garden: living "Virtue" in Renaissance France*
  Adviser: Lidia Radi
  Theatre Complex 117

- **Alexandra Young**
  *Eugenics, Then and Now*
  Adviser: Ladelle McWhorter
  Theatre Complex A102

Oral Presentations 3:45 – 3:55 p.m.

- **Benjamin Fancy**
  *The Virtuous Path to Knowledge in Renaissance France*
  Adviser: Lidia Radi
  Theatre Complex 117

- **Erin Michaud**
  *Escapism in Ancient Roman Comedy*
  Adviser: Julie Laskaris
  Booker Hall B216

- **Eric VanEpps**
  *Compelled to Give: The Effect of Guilt Appeals and Monetary Anchors on Charitable Donations*
  Adviser: Jeni Burnette
  Gottwald Science Center 114

- **Jessica Thaller**
  *Whose Porn Is It, Anyway?*
  Advisers: Ladelle McWhorter
  Theatre Complex A102
Oral Presentations 4:00 – 4:10 p.m.

★ Lauren Grewe  
_Virtue through Error: Monsters during the Renaissance_  
Adviser: Lidia Radi  
Theatre Complex 117  

★ Christopher Stiffler  
_The Roman Credit Crisis of 33 CE_  
Adviser: Julie Laskaris  
Booker Hall B216  

★ Melanie Waligura  
_Underdogs on the rise: Perceptions of disadvantaged groups as they shed their disadvantaged status_  
Adviser: Scott Allison  
Gottwald Science Center 114  

Oral Presentations 4:15 – 4:25 p.m.

★ Victoria Allen  
_Party Pushing: Exploring the Phenomenon of the Heterosexual Girl Kiss_  
Adviser: Glyn Hughes  
Theatre Complex A102  

★ Smaranda Craciun  
_Structure and Bonding in Bis(Phenalenyl) Complexes of Divalent Metals from Across the Periodic Table_  
Adviser: Kelling Donald  
Gottwald Science Center 112  

★ Hana Qugana  
_Coubertin, the Qin and China: Instrumental Lessons on Empire at the 2008 Beijing Olympic Games_  
Advisers: Andy McGraw and Tze Loo  
Booker Hall B216  

Oral Presentations 4:30 – 4:40 p.m.

★ Nyketha Lyken  
_West Indian Women's False Notions of Superiority_  
Adviser: Andrea Simpson  
Theatre Complex A102
Poster Presentations 1:30 – 2:30 p.m.

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

Betel Aklilu
A Survey of Endocrine Disruptors in the Chesapeake Bay and Suggestions for Possible Management Plans

Dana Bartlett
Affect of Two Component Regulatory System QseBC on the Invasion of Colon Cells by Shigella flexneri

Hilbert Billones
Thermodynamics of ligand binding to a ribose biosensor wild-type and site-directed mutants

Chung Lung Chan
Male rats’ sexual preference on reproductive experience of female rats

Rachel Chikowski
Untethered

Brandon Cieniewicz and Siyu Ding
Function and Downstream targets of the PaxB, a conserved developmental gene

Aaron Daugherty
Phenotypic Analysis of Oxidative Stress Response in Shigella flexneri

Rianna DiBartolo-Cordovano
Calcium carbonate test formation in the ciliate Coleps

Rachel Dillon
Insight into substrate recognition by MutY, a DNA repair glycosylase

Carolyn Doherty
“Analysis of climate change mitigation projects in the Caribbean region”

Mary Drake
Glandular Structures on Leaf Surfaces of Stizophyllum Riparium

Jasmine Felder and Megan Riley
Molecular Fingerprinting of Soil Nematode Communities

Erin Fields
Effects of Estrogen on Human KCNQ1/KCNE1 Potassium Current

Sally Fisher
Experimental and Computational Determination of the 3-D Structure of Kinesin Light Chain Tetratrico peptide Repeats

Jennifer Fitts
Using ArcGIS Network Analyst to Model Handicapped Accessibility Issues on a College Campus

Lauren Folgosa and Scott Masarky
The Effect of Polysubstituted Pyrrole Compounds on the Inflammatory Response

Katelin French
The Effect of Maternal Experience on Maternal and Predatory Behavior through Competitive Stimuli

John Frey
Association of Asian Tiger Mosquito Productivity and Female Nutritional Status with Aspects of the Larval Habitat.

Margaret Gustafson
Replication of the damaged nucleotide 8-oxodeoxyguanosine by a polymerase from a thermophilic bacteria

Spencer Harris and Katie Nicholas
Exploring the Symbiotic Relationship between Freshwater Sponges and Carotenoid-Producing Bacteria

Charles Kline
Climate Change Education and Awareness and the UNFCCC in Costa Rica and Nicaragua

Zachary Lake
Bacterial symbionts within Leptogorgia virgulata (octocorallia)

Ashley LeClare
Investigation of Marine Sponge Population Structure via ISSR Based Microsatellites

Christopher Manieri and Giles Thomson
Identification of Secondary Metabolites in Chesapeake Bay Sponges
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<td>Electrochemical Characterization of Crown-Ether Modified Nanoparticle Films as Optical Sensing Materials for Metal Ion Detection</td>
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**Andrew Massaro**
Ecological and Evolutionary Influence of Symbiosis on Sponge Heterotrophy

**James McCormick**
Role of yfhK, yfhA, and glnB in Shigella flexneri virulence

**Kelly McDaniel**
Leucine’s effect on Glutamate Dehydrogenase

**Timothy McLlarky**
Bacterial Diversity of Soil Samples from Death Valley National Park

**Ashley McQuillin**
Analysis of cp23S Domain V to assess zooxanthellal diversity among clionaid sponges from Caribbean and Pacific reefs

**Agathamarie Mushi**
One Global Challenge, Many Mitigation and Adaptation Recipes

**Archana Narla**
Archaeal Community Structure in Death Valley Soils

**Cecilia O’Leary**
Determining Feeding Preferences in Nematodes using fluorescence in situ hybridization (FISH) staining

**Charles Parsons**
Granite Rock Outcrop Soils as a Habitat for Nematodes

**Ericka Poppell**
Microbial Symbionts and Sponge Heterotrophy; morphological and molecular aspects of sponge:symbiont integration

**Monica Rocha and Brian Borkowski**
The Binding Specifications of the NR2D Subunit of the NMDA Receptor Protein

**Annie Sprick**
Symbiotic Bacteria in the Octocoral Leptogorgia viruglata

**Gabriela Timoney**
The Structural Determinants of Fatty Acid Modulation of Kv4 Channels

**Lindsay Ward and Katherine Malczewski**
Adrenergic Receptor Expression in RAW264.7 Macrophages

**Benjamin Weinstein**
Genetic Diversity in Polypedates leucomystax: a widespread Southeast Asian frog

**Hao Zhong**
Conformational Study of Adenine-based Fluorescent Receptors

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

**Berta Darakchieva**
A study of the population patterns of Gd-154 in the (p, t) reaction

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Optical Responses of Functionalized Hollow Gold Nanoshells

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Electrochemical Characterization of Crown-Ether Modified Nanoparticle Films as Optical Sensing Materials for Metal Ion Detection
Benjamin Giglio
Vinylogous Iminium Salt Based Approaches to the Synthesis of Lamellarin Alkaloids and Related Bioactive Analogs

Reginald Gooden
Analyzing the Conformational Behavior of Shishijimicin, an Enediyne Natural Product and Potential Anticancer Agent, using the Low Mode:Monte Carlo Conformational Search Method

Matthew Guarino and John Stewart
Building Bridges: Rationalizing Structural Preferences in the Group 2 dihalide Trimer Systems: (MX2) M = Be, Mg, Ca, Sr, Ba; X = F, Cl, Br, I

Christopher Gulka and John Gerig
Distance Dependence of Biological Electron Transfer Kinetics: Azurin Protein Adsorbed to Monolayer Protected Nanoparticle Film Assemblies

Adam Hake and Alexander Cooke
Dynamics of an Iron-Controlled Promoter

Heather Hollis
Quantum Mechanical Studies of Aromatic Substituted Enediyynes

Mona Hovaizi, Kara Finzel, Mona Hovaizi, Matthew Keough, Gordon Myers, and Eric Worrall
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Miles Johnson and Odamea Akomah
One-Pot Enol Silane Formation-Mukaiyama Aldol and Mukaiyama Aldol-Type Reactions Mediated by TMSOTf

Matthew Jordan
Measuring the Fifth Structure Function of a Deuteron

Ncamiso Khanyile
The Effect of Membrane Thickness on SPMD Sensors

Jenna Landers
A Molecular Dynamics Study of the Structure of a Tetra-tricopeptide Repeat Protein

Jacklyn Lee
Conformational Analysis of HIV-1 Protease Inhibitors

Brian Mahoney
ZnBr2 Catalyzed Addition of Alkynes to Aldehydes with TMSOTf as An Accelerant

John Mancini
Computational and Theoretical Chemistry for Design of Fluorescent Receptors

Angela Manglitz
Design of a FRET-based Glucose Biosensor

Nathaniel Mason
A Mathematical Approach to Thermotolerance

Mark Moog
Magnetic Form Factor of the Neutron at High Qsquared

Anna Parker
Using quantum mechanics to compare base pair stabilities of 8-oxo-deoxyguanosine and similarly damaged DNA nucleotides

Brendan Parr and Matthew Fanelli
Synthesis, Isolation, and Characterization of Michael-Michael Ring Closure Pyrrole Derivatives from a W(0) Complex

Melissa Pham, JoonSeog Kim, and Sarah Rhoads
Differentiating the regulation and neurosteroid binding domains of the ionotropic glutamate receptors

John Pinski
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Heather Robinson and Kristen Jobes
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James Blair, Elvira Barron, Erin Edwards, Jessica Knight, Courtney Lee, Shi Jia Liu, and Kristen Stalter
Perceptions and Stereotypes of Cognitive Aging and Alzheimer’s Disease

Jennifer Bodary
Estrogen Receptor Alpha Concentrations in the Female Heart

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

Kathryn Der
Building the Collection

Erin Dickman, Amanda Harvey, and Ivori Zvorsky
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The School of Arts & Sciences is the largest of the University of Richmond's five schools, with over 2,000 liberal arts majors and the University's entire first-year class. The school is made up of 22 departments, 11 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.

School of Arts & Sciences
Boatwright Library Administration Wing
28 Westhampton Way
University of Richmond, Virginia 23173

(804) 289-8416
as.richmond.edu
2009 is the International Year of Astronomy

Mark the 400th anniversary of Galileo’s first astronomical use of the telescope. In celebration of scientific discovery, everyone everywhere is encouraged to look through a telescope at least once this year.

This evening, April 17, you’re invited to come stargaze at Skywatch, presented by the Richmond Astronomical Society.

The Department of Physics will host a brief presentation about the night sky in the Gottwald Science Center’s auditorium at 7:30 p.m. At dark, attendees will walk to the football practice fields for an evening under the stars.