Dear Friends,

Welcome to the School of Arts & Sciences’ 26th Annual Student Symposium. As always, I am so pleased to see this unique event continue to grow—attracting participation from students across the academic disciplines and motivating faculty to mentor innovative undergraduate research and creative projects.

Last year, over 230 Arts & Sciences students participated in a summer research experience with funding from an Arts & Sciences Summer Research Fellowship or external funding source. Many students continued their research projects over the academic year or morphed a completed project into a second and even a third related endeavor. Some saw their results published in peer-reviewed journals; presented at regional, national, and even international conferences; performed in front of a live audience; or hung on a gallery wall.

The Student Symposium offers all Arts & Sciences students who have engaged in undergraduate research or creative work the opportunity to share what they have learned with their faculty, their peers, and the campus community at large. Students emerge from the experience better prepared to continue their work, either at Richmond over the course of subsequent semesters, in graduate school, or in the working world.

No matter what your own academic interests, you’ll find students with comparable ones as you roam the Symposium today. I always enjoy perusing the schedule in advance; I marvel at how a year’s worth of research can produce topics as varied as “The Social Impact of Surface Mining in Central Appalachia,” “A Mathematical Model for the Dynamics of Iron Homeostasis in E. coli,” and “Bandit Culture Past and Present: Ancient piracy, modern narcotrafficking, and the informal economy as a threat to the state.” With so many student participants, there really is something for everyone.

On a personal note, I’ll have a small lump in my throat at this year’s Symposium as it will be my last as dean. After a decade in the dean’s office, not to mention all the years I attended the event as a professor, I’ve grown rather attached to this particular Friday in April and all it’s come to signify. Overseeing the expansion of research opportunities for undergraduate students, and subsequently the Symposium, has been one of the highlights of my administrative career. I thank you all for sharing this journey with me and for advancing the mission of the School of Arts & Sciences every single day.

Best,

Andrew F. Newcomb
Dean, School of Arts & Sciences
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, social sciences, sciences, and humanities.

Key

- ✤ Arts
- ✦ Social Sciences
- ✪ Sciences
- ✯ Humanities
- ✠ Leadership
- ✩ Interdisciplinary

All information was correct at the time of publication.
**Oral Presentations 1:15 – 1:25 p.m.**

✦ Irena Stanisic  
*Summer Fellowship Art Exhibition*  
Harnett Museum

**Oral Presentations 1:30 – 1:40 p.m.**

✦ Bertrand Morin  
*Studio Art Thesis II Presentation*  
Harnett Museum

✦ Jaime Calero  
*Obstacles of the Dominican Republic*  
Modlin Center 102

✦ Caitlyn Duer, Adam B. Ferguson, Patrick Jones  
*Marisol: Reflections on a Student Production*  
Gottwald E303

✱ Gabrielle Misiewicz  
*Goombay Music in Bahamian Society*  
Booker Hall 216

✦ Laura Poatsy  
*Gender Differences and Unethical Decision Making*  
Webb Tower 101

✦ Arts  ✦ Social Sciences  ✦ Sciences  ✦ Humanities  
✦ Leadership  ✦ Interdisciplinary
Oral Presentations 1:45 – 1:55 p.m.

- **Rudolph Morris**  
  *Queue*  
  Harnett Museum

- **Caitlyn Duer**  
  *Rebellion Through Consumption: Identity Expression of Diasporic Indian Women in Film*  
  Gottwald E303

- **Ashley Miles**  
  *Presidential Leadership and Health Care Reform*  
  Webb Tower 101

- **Michael Rogers**  
  *The Second Invasion: Remembering the Battle of the Richmond-Petersburg Turnpike*  
  Booker Hall 216

- **Rachel Starry**  
  *The Vengeance of Achilles: The Impact of Viewing Context and Reception on Visual Narrative*  
  Modlin Center 117

- **Marianne Williams**  
  *Identities in the Shanghai Ghetto*  
  Modlin Center 102
Oral Presentations 2:00 – 2:10 p.m.

❑ Eliza Morse
  Recent Video and Photography
  Harnett Museum

❑ Rebecca Knight
  The Role of Early Colleges in the Transition from High School to College for Underrepresented Students
  Webb Tower 101

❑ Sarah Matheson, Kadeem Fyffe
  The Genesis of Fashion
  Gottwald E303

❑ Kimberly Pham
  Regulating the Minor Sin
  Modlin Center 102

❑ Julie Rechel
  High School Athletic Injuries, the Culture of Risk, and Sports Films: An Investigation into the Cultural Epidemiology of Sports-Related Injuries in Young Athletes
  Booker Hall 216

❑ Ryan Smout
  Ovid the Epic Hero
  Modlin Center 117
Oral Presentations 2:15 – 2:25 p.m.

- Amy Nicholas
  Senior Thesis Exhibition
  Harnett Museum

- Daniel Chiasson
  White Knights: Exploring the Rise and Fall of the Kolchak Regime Through Memoirs and Testimonies
  Modlin Center 102

- Caroline Cobert
  Ti-Ameny-Net: A New Biography
  Modlin Center 117

- Hannah Hess
  Relationships, Decision-making, and Future Plans: The Culture of Feminism at the University of Richmond
  Gottwald E303

- Kelsey Pietranton
  Senior International Studies Thesis
  Booker Hall 216

- Tenzin Tsayang
  China and India’s Environmental Policies and their Global Impact
  Webb Tower 101
Oral Presentations 2:30 – 2:40 p.m.

Sadie Runge
*Artist Talk; Senior Thesis Exhibition*
Harnett Museum

Colby Ferguson
*The Role of Bone Couches in Antiquity*
Modlin Center 117

Amanda Kleintop
*Networks of Resistance: Black Virginians Remember Civil War Loyalties*
Modlin Center 102

Abigail Novak
*The Development of Masculinity in Preschool Aged Boys and the Constraints of the Early Childhood Education System: Negative Impacts and the Need for Reform*
Gottwald E303

Tenaj Ferguson, Aleah Goldin, Samantha Van Putten, Secamiglio, Anelisa Jung, Brigid Ian Setliff, Jennifer Bisschop, Katie Murphy, Kevin Kindler, Liz Brunello, Rochelle Martinez Garcia, Nikolay Shenkov, Rachel Pricer, Simrun Bal, Thomas Johnson
*Global Health Capstone Presentations*
Webb Tower 101

Alex Vlasic
*World Bank Involvement in the Chad-Cameroon Pipeline Project: Poverty Reduction or Neo-Colonialist Policy?*
Booker Hall 216
Oral Presentations 2:45 – 2:55 p.m.

David Newman
Thesis Presentation
Harnett Museum

Colleen Gwin
The Leash that Binds Dogs and Their Humans
Gottwald E303

Bradford Mattison
Aeneas’ Crossing of the Acheron: the Turning Point of the Aeneid
Modlin Center 117

Brianna Puccini
Mourning Michael Jackson: Genre Analysis of a Memorial Occasion
Webb Tower 101

Dominique Simon
Cyber Colonialism: Economic Imperialism Advances into the Technological Age
Booker Hall 216

Daniel Chiasson
Religion or Nationalism: Analyzing Sources from the Greco-Turkish War
Modlin Center 102
Oral Presentations 3:00 – 3:10 p.m.

✶ Kathryn Houck
Summer 2010 Portfolio
Harnett Museum

✶ Katie Mitchell
Death of Dido: Vergil’s Scene in British Academic Painting (Fuseli and Reynolds)
Modlin Center 117

✶ Christine Parker
Cixous, Sorties, and Debating (Out of) Rhetoric
Webb Tower 101

✶ Caroline Vincent
The Construction of an Identity: How Turkey Came Into Existence Without Dividing its People
Booker Hall 216

✱ Christopher Cassidy
An Interdisciplinary Analysis of Archbishop Parker’s Whole Psalter
Gottwald E303

✶ Arts ✤ Social Sciences ✤ Sciences ✤ Humanities ✤ Leadership ✱ Interdisciplinary
Oral Presentations 3:15 – 3:25 p.m.

◆ Matthew Briand
*International Intervention in the Angolan Civil War: Imperial Ambitions in a Post-Colonial Context*
Booker Hall 216

◆ Andrea Hague
*Cosmopolitan Conceptions of Cultural Heritage in Istanbul, Turkey*
Modlin Center 102

◆ Shijia Liu
*How does stress affect working memory and executive function in adulthood?*
Gottwald C112

◆ Elizabeth Moore
*Conversations in Communication: Identity and the Character of Place*
Webb Tower 101

◆ Amy Nicholas
*The Horse and Rider in Greek Art: Curating Mythical Equines*
Modlin Center 117

◆ Justin Mallaney
*Talking & Driving*
Gottwald E303

◆ Greg Wells
*Previously Unstudied Sponge Dual-Pore Potassium Channel*
Gottwald C114
Oral Presentations 3:30 – 3:40 p.m.

★ Kelly Landers
*It's Our Culture, Not Theirs: Protection and Profit in Balinese Cultural Copyrighting*
Gottwald E303

★ Melissa Leeworthy
*Critical Anthropophagy: Rhetoric and the Digestion of the Self*
Webb Tower 101

★ Natalie Lewis
*The Evolution of the Elementary School Building in Post War America*
Modlin Center 102

★ Sylvie Somerville
*Bandit Culture Past and Present: Ancient piracy, modern narcotrafficking, and the informal economy as a threat to the state*
Modlin Center 117

★ John Stewart
*Evolution of Bonding Tendencies in the Group 12 Dihalide: Trimers ((MX2)3 M = Zn, Cd and Hg; X = F, Cl, Br, I)*
Gottwald C 114

★ Rachel Stowell
*No Way Home: An Exploration of Pieds-Noirs Identity from the Colony to the Métropole*
Booker Hall 216

★ Asira Usubalieva
*Metacognitive awareness in associative deficit in younger and older adults*
Gottwald C112
Oral Presentations  3:45 – 3:55 p.m.

♦ Garst Alyson, Sarah Beach  
_Bottle Rockets and Rocket Scientists: Using Children’s Curiosity to Explore Household Science_  
Gottwald C112

♦ Caroline Breed  
_Rock the Vote: How it appeals to young voters_  
Webb Tower 101

♦ Martha Crockett  
_Ovid in the French Renaissance_  
Modlin Center 117

♦ Julia Czech  
_Constructing the Queen: Imagery, Controls and the Changing Perceptions of Queen Elizabeth I_  
Modlin Center 102

♦ Ana Petrova  
_The Authoritarian Tradition in Peru: The Fujimori Case_  
Booker Hall 216

♦ Bernard Wittmaack  
_Theoretical Investigation of Halogenation and the Substituent-Induced Charge Re-distribution in Halomethanes and their Si, Ge, Sn, and Pb Analogues_  
Gottwald C 114

❖ Arts  ❖ Social Sciences  ❖ Sciences  ❖ Humanities  ❖ Leadership  ❖ Interdisciplinary
Oral Presentations 4:00 – 4:10 p.m.

✦ Emily Blevins, Matt McMaster, Michael Russell
  *Passport to the World: Teaching at Fisher Elementary*
  Gottwald C112

✦ Michelle Doran
  *New Framing and “The Ground Zero Mosque” Controversy*
  Webb Tower 101

✦ Jenna Landers
  *Utilizing Molecular Dynamics to Study the Kinesin cargo-Binding Domain and Ionotropic Glutamate Receptors*
  Gottwald C114

✦ Amanda Malloy
  *Imagining Identity: Race, Art, and the Search for Self in 20th Century Young Adult Literature*
  Modlin Center 117

✦ Bilyana Petrova
  *The Authoritarian Tradition in Peru*
  Booker Hall 216

✦ Mary Ellen Stanley
  *The Sculptural Program of St. Sernin in Toulouse: Iconographical Perceptions of the Medieval Pilgrim*
  Modlin Center 102
Oral Presentations 4:15 – 4:25 p.m.

Laura Combs
Appalachians and Urban America: A Perspective on Gender
Modlin Center 117

Athena Hensel, Lisa Auster-Gussman
Bringing Back Art Class to Dooley Elementary
Gottwald C112

Katrina Minoza
The University of Richmond Coordinate System: Gender Relations and Perceptions
Webb Tower 101

Anna Parker
A multireference study on the geometry and vertical excitations of 2,5-didehydrothiophene, a diradical similar to para-benzyne
Gottwald C114

Tim Quinn
Un habile homme: Assessing the Renaissance’s Enduring Legacy on Education
Booker Hall 216

Alice Young
Gift-giving Among Erastai and their Eromenoi: Representations on Archaic Attic Red-figure Vases
Modlin Center 102
Oral Presentations 4:30 – 4:40 p.m.

✦ Kathryn Given  
Ryan McGinness’s “Art History Is Not Linear (VMFA)”: Commercialization in Contemporary Art and the Museum Context  
Modlin Center 102

✦ Elizabeth Hailand, Hannah Marlow, Caitlin Fifield, Anna Simpson  
Transitions from High School to College: The Influence of Early College High Schools  
Webb Tower 101

✦ Taylyn Hulse, Emily Schworer, Lauren Henry  
Thinking Outside the Box: Creative Problem Solving for Social Change  
Gottwald C112

✦ Sam Mitchell  
The Stuff of Thought: Virginia Woolf’s Object Lessons  
Modlin Center 117

✦ Ali Noji  
Network Theory: Agency, Structure, and the Individual  
Booker Hall 216
Oral Presentations 4:45 – 4:55 p.m.

Laura Brown, Cheleah Jackson, Caitlin Manak
*The Challenges of Applying to College*
Webb Tower 101

Hannah Guida
*Italian-American Internment and its Effects on Language Acquisition*
Booker Hall 216

Whitney Haney
*Zenga and the Visual Practice of Enlightenment*
Modlin Center 102

Katie Lambeth
*Dance Drama Revolution*
Gottwald C112

Nadine Weiss
*Hermaphroditic Union in Spenser’s “The Faerie Queene” Book 3*
Modlin Center 117
Oral Presentations 5:00 – 5:10 p.m.

✦ Kelly Landers
It’s Hard to Tell the Singer from the Song: The Musical and Cultural Leadership of Hazel Dickens
Webb Tower 101

✦ Alexandrea Nicolet
Modernista Poster Art in Fin-De-Siècle Barcelona: Catalan Identity and Bourgeois Indulgences
Modlin Center 102

✦ Nicole Prunetti
Prosecution, Perfect Women, and Plays: The Influence of Sixteenth and Seventeenth Century Slander Litigation on the Construction of Femininity in Shakespeare’s “Much Ado About Nothing” and “Othello”
Modlin Center 117
Oral Presentations  5:15 – 5:25 p.m.

* Christopher Cassidy  
  *Witchcraft in Shakespeare’s “Macbeth”*  
  Modlin Center 117

* Schuyler Swartout  
  *Intersections of Business and Creative Decisions by Contemporary Webb Tower Comics Creators*  
  Modlin Center 102

Oral Presentations  5:30 – 5:40 p.m.

* Dayle Wood  
  *The Gendered Gaze: the Female Nude and the Drapery Paintings of Alison Watt*  
  Modlin Center 102

Oral Presentations  5:45 – 5:55 p.m.

* Elizabeth Moore  
  *Dialogue and Differentiation: Placing contemporary land artist Andy Goldsworthy in the context of his predecessors*  
  Modlin Center 102
Poster Presentations  1:30 – 2:30 p.m.

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

✴ Amina Abdul Qayum
Larval nutritional stress affects vector immune traits in adult yellow fever mosquito Aedes aegypti.

✴ Nicholas Annichiarico
Studying Large Scale Patterns of Anisotropy in Elliptical Galaxies

✴ Falk Bradley
Probing subunit interactions in 3-phosphoglycerate dehydrogenase

✴ Mackenzie Brown
Cellular connective structures of the Xenopus laevis lymphatic heart

✴ Mila Buckner, Bridget Fischer
An Empirical Review of Joseph Campbell’s Heroic Journey

✴ Arit Chatterjee, Eric Skurka
Dueling with Dragons

✴ Danyi Chen
Continuum feeding for the ground state band of Gd isotope

✴ Natalie Clark
The role of Superoxide Dismutase 2 in a Drosophila model of Machado-Joseph Disease

✴ Caroline Colton
The Art of Archaeology: Excavating Bones in a Byzantine Church

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

✴ Arts  ✴ Social Sciences  ✴ Sciences  ✴ Humanities
✴ Leadership  ✴ Interdisciplinary
Poster Presentations 1:30 – 2:30 p.m. (continued)

- Chad Crigger
  *Searching for Square Planar: Physical and Electronic Considerations in Group 14 Heavy Methane Analogues*

- Kendra Cunningham
  *Glide Docking of Substrate Envelope Designed HIV-1 Protease Inhibitors*

- David Hernandez, Nikkia Ellis, Ann Ralls Niewold
  *The struggles and advantages of students applying to colleges*

- Kadeem Fyffe, Sarah Matheson
  *Genesis of Haute Couture Houses*

- Michael Ghio
  *Extension Past 8-Oxo-2’-deoxygaunosine with the Bypass Polymerase Dpo4- Insights into the Factors that Influence Activity*

- Dana Gnerre
  *Personal Guardian Angel*

- Adam Hake
  *A Mathematical Model for the Dynamics of Iron Homeostasis in E. coli*

- Spencer Harris
  *Marine Microbe Natural Product Isolation and Characterization*

- Layla Hedges
  *Hans Gassman*

- Shannon Hedrick
  *The Varied Roles of Three Fully Conserved Arginine Residues near beta turns in glyoxysomal Malate Dehydrogenase*
Michael Henry
*Bonding II: The Thermochemistry of Phenalenyl Half Sandwiches: Structure and Bonding in Group 1 and 11 Phenalenyl Complexes*

Athena Hensel, Lucy Braude
*The Effect of Gender on Perceptions of Heroic Empathy*

Kirstin Humphrey, Matt Newman
*Rational Design to Increase the Activity of the “Bocarsly Catalyst” for Reduction of Carbon Dioxide to Reduced Forms of Carbon*

Katelin Peterson, Beth Kelly, Matt Llano, Ra-Twoine Fields
*You and Your Friends*

Jessica Lesky
*Motion in the Background: How Attentional Cues Affect Mathematical Problem Solving*

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

Brad Mattison, Shaoqing Yang, Meredith Trubitt
*Rhenium-(V)-xo Complexes as Catalysts in Ring-Opening Reactions*

Chris Musalo
*Simulation of the CLAS12 Forward Electromagnetic Calorimeter*

Ana Neferu
*Addition of Various Alcohols to Ethyl Propiolate*

Benjamin Pauerstein
*Using C++ and SRIM to improve energy resolution using the STARS/LiBerACE arrays*
Poster Presentations  1:30 – 2:30 p.m. (continued)

Kate Pitchford, Gavin McGrew, Alex Martin, Katherine Utz
Coding Theory: Second-Order Nonlinearity

Brittney Quinones, Benjamin Digel, Malon Peeters, Stephanie Granderson
Social, Cultural, and Academic Transitions: The Difficulty of Adjusting to College Life for Latino Youth

Sarah Rhoads, Shannon Biello, Laura Zemcik
The Role of Histidines in Neurosteroid Binding of NR2B and D Subunits

Janelle Sadarananda
Hacimusalar Hoyuk Paleobotany Project

John Shaw
Improving the angular resolution for the silicon detectors of the STARS array

Kelsey Sherman
The Effect of Polysubstituted Pyrrole Compounds on Macrophage Function

Jordan Shoop
Saxonburg

Kristen Qutub, Brian Sorace, Drew Simmelink
Proteomic Profiles of Machado-Joseph Disease in Drosophila

Aleena Sorathia
Mobilizing the Poor: Political Dynamics of CCTs in Mexico and Brazil

Mary Ellen Stanley
Pilgrimage as a Viewing Prism: The visual spectacles of revelation,

Arts  ♦ Social Sciences  ♦ Sciences  ♦ Humanities  ❎ Leadership  ✤ Interdisciplinary
knowledge and perception along the southernmost route to Santiago de Compostela

✦ Kylie Steadman, Melanie Watkins, Katie Sears, Ann Jarboe
  The Effect of Food on Stress Recovery in Women with Binge Eating Disorder

✦ Schuyler Swartout
  Indie and Web Cartoonists at Two Comic Conventions

✦ Jennifer Tedrick, Emily Shuman, Natalie Gallo
  Do Digital Tools Extend the Body?

✦ Winston West
  Synergy between ErbB1/2 inhibition and the novel small molecule inhibitor OSU-03012 in multiple cancers

✦ Jordan Yanev
  The Law Career of Abraham Lincoln
Poster Presentations  2:30 – 3:30 p.m.

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

✦ Alexis Achey, Katie Wilcox
   Prosopagnosia

✦ Jennie Altman, Lauren Slipher
   Turning a viral strength into a weakness: Modulating the error rate of viral RNA replication in vitro

✦ Peter Barelli, Dominic Gazzo, Nakul Telang, Kara Finzel, John Stafford, Spencer Bates
   The Preparation and Novel Reactions of an Indole Containing Iminium Salt Building Blocks

✦ Chaz Barracks
   I am My Life Story

✦ Dana Bartlett
   Role of Potential Virulence and Antivirulence Genes in Shigella flexneri Pathogenicity

✦ Amanda Paige Belcher
   Reducing Carbon Dioxide through Synthesis of Electrocatalysts and Photocatalysts

✦ Katherine Billups
   The Social Impact of Surface Mining in Central Appalachia

✦ Joshua Carbonneau
   Development of a Computing Cluster at the University of Richmond

✦ Carroll Courtenay
   A Standardized and Interconnected Approach to Green Infrastructure Development in Virginia and Surrounding States Using Morphological Image Processing

✦ Arts  ✦ Social Sciences  ✦ Sciences  ✦ Humanities
   ✦ Leadership  ✦ Interdisciplinary
Lindsay Deacon
Characterization of a Thermatoga maritima arginine-binding protein

Elizabeth DeMarco
Facebook "Friendship": Are Facebook "Friends" Really Your Friends?

Emily Dowd, Doria Miller
The Effect of Gender Studies on Female Stereotype Threat in Mathematics

Natalie Eisenach
Immobilization of Periplasmic Protein-Based Biosensors

Alan Fleisher, Chelsea Safran
TMSOTf-Mediated Additions of Silylated Nucleophiles to Carbon-Oxygen Pi Bonds

Nathan Follin, Chris Musalo
3-Dimensional Correction for Thermal Drift in Atomic Force Microscopy

Michael Freeman
Optimization of a nanoparticle-doped amperometric biosensor for clinical applications

Sarah Friday
The evolutionary ecology of zooxanthellar symbionts in marine sponges

Robert Heler
Identification of a Kv4 channel hydrophobic binding pocket for the inhibitory effects of polyunsaturated fatty acids

Arts ♦ Social Sciences ♦ Sciences ♦ Humanities ♦ Leadership ♦ Interdisciplinary
Poster Presentations  2:30 – 3:30 p.m.  (continued)

✦ Kimberly Hugli
   Slick Dreams

✦ Xin Jia, Spencer Bates, Nakul Telang, Peter Barelli, Emily Kluball, Kayleigh Hall, Kara Finzel
   A. The Synthesis and Biological Evaluation of JG-03-14 and Its Analogs

✦ En En Jiang
   CASCADE and PACE4 calculations for beta-decay population of low-lying levels in 186Pt

✦ Thomas Johnson
   Evaluation of Core-Polarization vs. Molecular Orbital Descriptions of Bending Anomalies in Small Molecules

✦ Emily Kluball, Spencer Bates, Xin Jia, Peter Barelli, Kayleigh Hall, Kara Finzel, John Stafford, Scott Welden
   B. Cross-coupling Reactions of (Z)-3-Aryl-3-haloenoic Acids and Derivatives

✦ Kelly Larsen, Mary Elizabeth Lovelace
   Problem solving among college students

✦ Jessica Lustig, Alexis Achey, Emily Schworer, Steven Daniel
   The Effect of Level of Discrimination on the Brain’s Categorization of Stimuli

✦ Andrew Massaro
   A Great Barrier to Flow on the Great Barrier Reef

✦ Mark Moog
   Neutron Detection Efficiency of the CLAS12 Detector

✦ Arts     ✦ Social Sciences     ✦ Sciences     ✦ Humanities
          ✦ Leadership     ✦ Interdisciplinary
Keely Naughton  
*Battle Suite*

Yazmeen Nunez, Aleah Goldin  
*Indigenous Natural Resource Management Mapping in the Peruvian Amazon*

Phillip Opsasnick  
*Embodyed Angst: Accounting for Menarche in Heideggerian Ontology*

Ana Paiz  
*Exploring the CDM global enterprise; the study of hog farms in Mexico*

Laura Pavlos, Stephen Rachman  
*A Series of Para-Substituted Anil Ligands and Their Transition Metal Complexes*

Kelly Rafferty, Bianca Marks, Amy Au, Tommy Bilinski, Melinda Lucia, Erin McDaniel, Matt McMaster, Haddis Tujuba, Emberly Sinclair  
*Neural and Behavioral Enhancements of Reproduction*

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

Emily Ryan, Jessica Miller, Sara Barth, Justin Turpin  
*Bob, Biff, or Buck? Using Multiple Parts for Expert Recognition*

Marion Setliff, Jordan Cates, Elizabeth Pavesich  
*Sensing the Heat Stress by Mammalian Cells*
Poster Presentations 2:30 – 3:30 p.m. (continued)

- Desiree Radeck, Nikolay Shenkov, Tanveer Ahmed, Mirela Fetea, Tan Ahn, Andreas Heinz, and Volker Werner (WNSL, Yale University, CT) and Desiree Radeck (IKP, University of Cologne, Germany)
  Exploring the Relationship between Intensity and Readout Delay in the WNSL Data Acquisition System

- Danielle Taylor
  Energies and Collision Cross Sections of Potential Products of Phenyl Cation with Acetylene

- Curt Thomas
  A Media Content Analysis of Wind Coverage and Development in Chile, Dominican Republic and Mexico

- Calla Ward, Lauren M. Henry
  Mother-Daughter Relationships in Emerging Adulthood

- Melanie Watkins, Anna Villani
  Friendships and Social Support

- Dayle Wood
  New at the Harnett: Examining the Museum’s Recent Acquisitions

- Hao Zhong
  Fatty acid and pH regulation of a sponge potassium ion channel

- Arts  ♦ Social Sciences  ♦ Sciences  ♦ Humanities
  ✴ Leadership  ★ Interdisciplinary
Poster Presentations 3:30 – 4:30 p.m.

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

✦ Bryn Allen, Kristen Jobes, Stephen Wilson
*A Naphthpyridine Series: Probing Steric Effects with the Bocarsly Pyridinium-based Catalyst System for Reduction of CO2 Directly to Methanol*

✦ Maxine Audet
*SERT Transporter Expression on RAW264.7 Macrophages*

✦ Furlong Bai
*Mechanism Study of Oxidation Reaction of Thiophen and Methlythiophene*

✦ Emily Bartle
*Mapping the Divide: A visual representation of the gender gap in medicine*

✦ Jordan Baxter
*Stress responses of bacteria isolated from Death Valley soils*

✦ Emma Berry
*Buffering Against Weight Gain Following Dieting Setbacks: An Implicit Theory Intervention*

✦ Idil Cazimoglu
*A Conformational and Quantum Mechanical Investigation of Novel Ladder Polymers*

✦ Justin Cook
*Modeling re-fluorescence*

✦ Kelly Crowley
*Studies into the mutagenic potential of the DNA lesion 8-Oxo-2’-deoxyguanosine with various DNA polymerases*

✦ Arts ✦ Social Sciences ✦ Sciences ✦ Humanities ✦ Leadership ✦ Interdisciplinary
Poster Presentations 3:30 – 4:30 p.m. (continued)

❖ Blaike Ford  
*The Reciprocal Evolution of Marketing & the Gluten-Free Industry*

❖ Aleah Goldin  
*Political Ideology and Prosocial Behavior: Understanding the Role of Pro-America Attitudes and Blatant Prejudice*

❖ Emma Greenspon, Jess Miller, Emily Ahern  
*Holistic Processing of Words*

❖ Alexander Hahn  
*Electronic and Steric Characterization of the 5-Endo-Dig Radical Cyclization Reaction in Engineering, a more Feasible Synthesis of Enediyne Compounds*

❖ Kate Heyer, Josephine Senoga  
*Buffering the effects of stereotype threat on women’s entrepreneurial competence evaluations: An implicit theories approach*

❖ Diana Iovan, Daisher Nagra  
*Exploring the Reactions of Tungsten(0) η2-Coordinated Pyrrole Complexes*

❖ Nellie Jenkins  
*The Effect of Implicit Theories and Apology Type on Forgiveness Following a Conflict*

❖ Samantha Lindsey  
*Spider Fear Associations*

❖ Lindsay Myerberg, Emma Berry  
*Forgiveness as a Mechanism of Self-Regulation: An Ego-Depletion Model*

❖ Emily Nelson  
*Graphical Event-Oriented Simulation*
Maggie Nelson  
*Mutations in Vesicular Monoamine Transporter-1: Potential Links to Schizophrenia*

Natalie Nguyen  
*Nanoparticle Enhancement of Electrochemical Detection of Peroxide at Thin Films for Unmediated Biosensor Design*

Amy Nicholas  
*Nature’s Forms*

Nikkia Ellis, Ann Ralls Niewold, David Hernandez  
*The Struggles and Advantages of High School Students Applying to Colleges*

Natalie Omattage, Emily Kornberg  
*The Inner Workings of the DNA Copying Nanomachine: Atomic Structure and Kinetics of DNA Polymerase I*

Conor Phelan  
*Exploring HIV-1 Protease Flap Motion using Molecular Dynamics*

Toma Pigli  
*Reducing Communication in Single-Chip Multiprocessors by Moving Computation to Data*

Megan Riley, Alyxandra Pikus  
*Investigation of the Ecology of Fungal-feeding Nematodes*

Jeffrey Schriber  
*Quantum Mechanical Studies of Diradical Species*

Kathryn Sears, Kylie Steadman, Ann Jarboe, Melanie Watkins  
*The effect of comfort food on stress response in binge eating disorder*
Caitlin Smith
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*Sorority Life: The Art of Collecting Virtual Friends on Facebook*

Arts  Social Sciences  Sciences  Humanities  Leadership  Interdisciplinary
Tabitha Yewer
Conformations of Brevetoxin

Julia Zeller
Reinventing a Fading Culture: The Revitalization of Typical Food in a Chilean Village

Bryan Zielinski
Soil Nematode Feeding Preferences Among Bacteria and the Effect of Dietary Choice on Population Growth
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