

TWENTIETH ANNUAL

SYMPOSIUM on UNDERGRADUATE RESEARCH

STUDENT UNION BALLROOM AND THEATRE

April 8 - 10, 2014



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PROGRAM AT A GLANCE

Tuesday, April 8

7:00 p.m. – 8:00 p.m. Student Debate: Smoking on VSU's Campus—Pros

and Cons

Wednesday, April 9

9:00 a.m. - 10:30 a.m. Paper Session I

11:00 a.m. – 12:30 p.m. Paper Session II

12:00 p.m. – 1:30 p.m. Pizza Lunch for Symposium Participants and Faculty

Sponsors, Student Union Ballrooms

1:30 p.m. - 3:00 p.m. Paper Session III

3:30 p.m. - 5:00 p.m. Paper Session IV

7:00 p.m. – 8:00 p.m. Art Student Competition, VSU Fine Arts Gallery

Thursday, April 10

9:00 a.m. - 10:30 a.m. Paper Session V

11:00 a.m. - 12:30 p.m. Paper Session VI

12:30 p.m. - 1:30 p.m. Lunch Break

1:30 p.m. - 3:00 p.m. Paper Session VII

3:30 p.m. - 5:00 p.m. Paper Session VIII

6:00 p.m. – 7:30 p.m. Poster Session and Reception, Student Union

Ballrooms

7:30 p.m. – 7:50 p.m. Awards Ceremony with President McKinney,

Student Union Ballrooms

All Paper Sessions and the Student Debate will be held in the Student Union Theatre

TUESDAY, APRIL 8, 2014

7:00 P.M. – 8:00 P.M. SPOTLIGHT ON THE ARTS: STUDENT DEBATE (STUDENT UNION THEATRE)

Moderators: Dr. Michael Eaves and Mr. Kevin Bryant, Department of Communication Arts

Debate Topic: Smoking on VSU's Campus—Pros and Cons

Pro: Hannah Tabrizi and Allante Fairley

Con: Keven Rudrow and Kyra King



WEDNESDAY, APRIL 9, 2014

9:00 A.M. - 10:30 A.M. PAPER SESSION I (STUDENT UNION THEATRE)

Moderator: Dr. Matthew Grant, Department of Kinesiology and Physical Education

"Does Education Level and Views on Authority Affect Willingness to Protest?"

Angel Hardy
Department of Sociology, Anthropology and Criminal Justice
Dr. Anne Price, Faculty Adviser

"Measurements and Analysis of Mechanical Strength of Dental Ceramics"

Carlos Ponce, Lauren Hale, Minh Tran and Byung Kim Department of Physics, Astronomy, Geosciences and Engineering Studies Dr. Barry Hojjatie, Faculty Adviser

"Destruction of Nations through Children: A Study of Native American Cultural Survival and the Indian Child Welfare Act of 1978"

Pamela A. Johnson Native American Studies Program Dr. Lavonna Lovern, Faculty Adviser

"A Student-generated Mnemonic for Asymptotes of Rational Functions"

Kyle Land
Department of Mathematics and Computer Science
Dr. Iwan Elstak, Faculty Adviser

"A Cure for Passive Learning"

LaRae Seemann
Department of English
Mr. Gardner Rogers, Faculty Adviser

11:00 A.M. - 12:30 P.M. PAPER SESSION II (STUDENT UNION THEATRE)

Moderator: Dr. Tracy Woodard, Women's and Gender Studies Program

"Congress in the 21st Century: Factors Influencing Party Unity in the Contemporary House"

Nicholas A. Rudnik Department of Political Science Dr. Luke Fowler, Faculty Adviser

"Belleza Que Restaura/Beauty That Restores"

Darian L. Hector
Department of Modern and Classical Languages
Dr. Ericka H. Parra, Faculty Adviser

"Dijkstra's Algorithm and Google Maps"

Daniel Lanning
Department of Mathematics and Computer Science
Dr. Jin Wang, Faculty Adviser

"Iroquois Atrocities in the American Revolution"

Garrett Hall
Department of History
Dr. Dixie Haggard, Faculty Adviser

"Deconstruction of Cartesian Paradigms in Samuel Beckett's Molloy"

Adrienne Fry
Department of English
Dr. Marty Williams, Faculty Adviser



1:30 P.M. – 3:00 P.M. PAPER SESSION III (STUDENT UNION THEATRE)

Moderator: Dr. Mary Block, Department of History

"Implementation of the Telnet Protocol Using the Java Language"

Andrew J. Wells
Department of Mathematics and Computer Science
Drs. Jason Loew and Dave Gibson, Faculty Advisers

"Divine Healers: The Legacy of the Crusade Era Physicians"

Matthew Thomas Rivera
Department of History and the Honors College
Drs. Sebastian Bartos and Michael Savoie, Faculty Advisers

"Drowning Capitalism: The Aquatic Redemption of the Rabbitte Family in Roddy Doyle's *The Barrytown Trilogy*"

Ashley M. Miller
Department of English
Dr. Myrto Drizou, Faculty Adviser

"Generational Wealth Gap Between the Baby Boomer and Millennial Generations: Systemic Risks Outside of Federal Regulation"

Joel Dolzier Brown Department of Accounting and Finance Dr. Elvan Aktas, Faculty Adviser

"Using Cognitive Dissonance to Persuade People Towards a Plant-Based Diet"

Hannah Jones Department of Communication Arts Dr. Michael Eaves, Faculty Adviser



3:30 P.M. - 5:00 P.M. PAPER SESSION IV (STUDENT UNION THEATRE)

Moderator: Dr. Marc Pufong, Department of Political Science

"6-Year College and University Graduation Rates in Georgia"

Philip Lehman
Department of Political Scence
Dr. James LaPlant, Faculty Adviser

"Construction and Deployment of a Green Tech Artificial Reef"

Brittany Butler, Tess Baker, Sydney Plummer, Aaron Calvin, Kelsey Johnson, Warren Lott and Brandon Atwater Department of Chemistry

Drs. Thomas Manning (VSU) and Kelly McKinnon (Pigeon Key Marine Foundation), Faculty Advisers

"Indigenous Women and Violence in Guatemala"

Amy Lorena Gonzalez Native American Studies Program Dr. Lavonna Lovern, Faculty Adviser

"Utility Computing: The Emergence of a New Paradigm"

Kwangil Sim
Department of Management and International Business
Dr. Taewon Hwang, Faculty Adviser

"The Rhetorical Theory Applied to the Sport of Wrestling"

Ryan Baerwalde Department of Communication Arts Dr. Michael Eaves, Faculty Adviser



7:00 P.M. – 8:00 P.M. SPOTLIGHT ON THE ARTS: ART STUDENT COMPETITION (VSU FINE ARTS GALLERY)

Welcome: Dean Blake Pearce

College of the Arts

Remarks: Mr. Michael Schmidt

Interim Department Head of Art

The 16th Annual Art Student Competition features 65 works from 44 students. Professor Janis Brothers from Florida Gateway College acted as juror and judge, selecting works for the exhibit from a field of 214 submissions and making nine awards. The exhibition reflects the wide variety of media offerings at VSU, including Animation, Graphic Design, and Interior Design.







THURSDAY, APRIL 10, 2014

9:00 A.M. - 10:30 A.M. PAPER SESSION V (STUDENT UNION THEATRE)

Moderator: Dr. Michael Savoie, Honors College

"Rethinking Education to Fit the 21st-Century Student"

Erin Jones
Department of English and Honors College
Mr. Gardner Rogers, Faculty Adviser

"Yemen Theocracy and Hypocrisy: Constitutional Optimism within an Illiberal Democracy"

Nicholas A. Rudnik and Kenneth D. Holiday Department of Political Science Dr. Marc Pufong, Faculty Adviser

"Analysis of Corrosion Damage in Engineering Materials"

Joshua K. Brant and Jordan B. Franklin
Department of Physics, Astronomy, Geosciences and Engineering Studies
Drs. Barry Hojjatie (VSU), Ahmad Saatchi (Georgia Tech)
and KkochNim Oh (Georgia Tech), Faculty Advisers

"Infinitude of Primes of the Form $p=x^2+ny^2$ "

Erica Garcia
Department of Mathematics and Computer Science
Dr. Jose Velez Marulanda, Faculty Adviser

"From Child to Woman: Gabriel Pascal's Cleopatra in the 1945 Film Caesar and Cleopatra"

Victoria C. Rodriquez Department of History Dr. Melanie Byrd, Faculty Adviser



11:00 A.M. - 12:30 P.M. PAPER SESSION VI (STUDENT UNIONTHEATRE)

Moderator: Dr. Gretchen Bielmyer, Department of Biology

"The Influence of Salinity and Copper Exposure on Copper Accumulation and Physiological Impairment in the Sea Anemone, Aiptasia pallida"

Pratikkumar P. Patel Department of Biology Dr. Gretchen Bielmyer, Faculty Adviser

"Attention Whore"

Makeda Bryce Department of Communication Arts (Dance) Professor Catherine Schaeffer, Faculty Adviser

"Kawasaki Disease: The Most Effective Treatment"

Jasmine Spencer Honors College Dr. Christine James, Faculty Adviser

"Examining the Influence of Self-Efficacy and Self-Regulation in an Online Learning Environment"

Rachel Lorraine Bradley
Department of Psychology and Counseling
Drs. Blaine Browne and Heather Kelley, Faculty Advisers

"Interspecific Competition Lokta-Voltera Model with Non-linear Square Root Terms"

Daniel Drummond
Department of Mathematics and Computer Science
Drs. Jemal Mohammed-Awel and Andreas Lazari, Faculty Advisers



1:30 P.M. - 3:00 P.M. PAPER SESSION VII (STUDENT UNION THEATRE)

Moderator: Dr. Tom Aiello, Department of History

"Signal to Noise Ratios Versus Cold Fusion: Student Led Experiment with High Voltage, High Frequency Discharge"

Aaron Calvin
Department of Chemistry
Drs. Thomas Manning (VSU), Russ Goddard (VSU), and Jim Happell
(University of Miami), Faculty Advisers

"The Need for 21st-Century Grading"

Morgan Blough Department of English and Honors College Mr. Gardner Rogers, Faculty Adviser

"Motivation and Commitment Factors of Volunteers in Environmental Non-Profit Organizations and Implications for the Future"

Adrienne Fry Honors College Dr. Michael Savoie, Faculty Adviser

"The Divine Female Redeemer of Trimorphic Protennoia: An Ancient Voice of Female Wisdom"

Susan Leigh Jones Department of Philosophy and Religious Studies Dr. Lily Vuong, Faculty Adviser

"Engineering Economic Analysis of the New Health Science and Business Administration Building"

Victoria A. Ratte, Jarred S. Woodruff and Andre J. Council Department of Physics, Astronomy, Geosciences and Engineering Studies Drs. Barry Hojjatie (VSU) and Hadi Kahalzadeh (Fairleigh Dickinson University), Faculty Advisers



3:30 P.M. - 5:00 P.M. PAPER SESSION VIII (STUDENT UNION THEATRE)

Moderator: Dr. Jenny Vu, Department of Chemistry

"The Ambiguity of Masculinity and Femininity in *The Strange Case of Dr. Jekyll and Mr. Hyde*"

Holly Bassett
Department of English
Dr. Jacob Jewusiak, Faculty Adviser

"The Forbidden Fruit: Organized Religion as a Social Control Device"

Mary Booker Department of Sociology, Anthropology and Criminal Justice Dr. Michael Meacham, Faculty Adviser

"Population Dynamic on White-tailed Deer in Georgia"

Jennifer Griffin
Department of Mathematics and Computer Science
Dr. Denise Reid, Faculty Adviser

"Voltaire's Candide and Postcolonial Thought"

Holly Bassett
Department of Philosophy and Religious Studies
Dr. Aristotelis Santas, Faculty Adviser



6:00 P.M. – 7:30 P.M. POSTER SESSION AND RECEPTION (STUDENT UNION BALLROOMS)

7:30 P.M. – 7:50 P.M. AWARDS CEREMONY (STUDENT UNION BALLROOMS)

Welcome: Dr. James LaPlant

Symposium Coordinator

Remarks: Dr. William McKinney

VSU President

Dr. David Danahar

Interim Provost and Vice President for

Academic Affairs

Presentation of Best Poster Awards

Posters

ART

"A Design Journey through Russian Churches: The Assumption Cathedral and the Cathedral of St. Vasily the Blessed"

Tanya Tsaruk Mr. Tommy Crane, Faculty Adviser

"The Crescent: The Design Behind Its History"

Natalie Milko Mr. Tommy Crane, Faculty Adviser

"What We Care About: A Photo-Voice Literacy Project"

Alexandria Crowder, Daisy Daniel, Anna Hardin, Rebecca Kluball, Rebecca Michael, Carlin Morrison and Lorianna Weathers Dr. Paula L. McNeill, Faculty Adviser

BIOLOGY

"Assessment of Heavy Metal Contamination in the Biota of Four Rivers with Varying Degrees of Human Impact"

Christina G. Duckworth, Pratikkumar K. Patel and Erika L. Schumacher Drs. Gretchen Bielmyer and Matthew Waters, Faculty Advisers

"Environmental Stress Induces Sex Ratio Changes of Adult Geukensia demissa"

Joseph Hayes and Steve Watts Dr. Cristina Calestani, Faculty Adviser

"Epiphytic Algal Community Structures within the Rivers of Southern Georgia"

Codie Picariello and Elizabeth Tuttle Drs. Matthew Waters and Gretchen Bielmyer, Faculty Advisers



"Floristic Inventory of the Lake Louise Field Station, Lowndes County, Georgia"

Joshua Luke Steele Dr. Richard Carter, Faculty Adviser

"Gut Contents of the Mourning Dove (Zenaida macroura: Columbidae) and the Potential for Seed Dispersal"

Phillip Lowe and Camry Winford Dr. Richard Carter, Faculty Adviser

"Promoting Scientific Research through Herbarium Digitization at Valdosta State University"

Jessica Marie Bartek and Amy M. Vardeman Dr. Richard Carter, Faculty Adviser

"The Evolution/Creationism Controversy from the Perspective of Biology Majors"

Deidra Jill Bricker Dr. Leslie S. Jones, Faculty Adviser

"The Impact of Urbanization on Water Quality in Four Rivers with Varying Degrees of Anthropogenic Disturbance"

Amber Blocker, Aundrea Duncan and Charlie Wiggins Drs. Gretchen Bielmyer and Matthew Waters, Faculty Advisers

"The Impacts of Watershed Land Use and Environmental Factors on Sediment Transport and Light Attenuation in Four Streams in South Georgia"

James Timothy Ragan and Cliff Hunter Crummey
Drs. Matthew Waters and Gretchen Bielmyer, Faculty Advisers

"The Influence of Salinity and Water Chemistry on the Acute Toxicity of Cadmium to Estuarine Killifish"

Codie Picariello Dr. Gretchen Bielmyer, Faculty Adviser

"The Relationship of Stream Chemistry and Habitat on the Biodiversity of Stream Macroinvertebrates"

Somuayiro Nwokike, Rebecca Tucker and Benjamin Webster Drs. Matthew Waters and Gretchen Bielmyer, Faculty Advisers

"Varying Patterns of Spanish Moss (*Tillandsia usneoides*) Abundance Within and Between Different Forest Communities at the Lake Louise Research Center"

Bianca Stephania Farley Dr. Corey Devin Anderson, Faculty Adviser

CHEMISTRY

"3D Printing as a Method to Teach Instrumental Analysis"

Pam Brown, Aaron Calvin, Nicholas Fight, Anthony Fino, Ashley Humphries, Brittany Larcart, Chandler Massey, Tysheon McGreggor, Brock Merchant, Oscar Otieno, Mehulkumar Patel, Jacob Perry, Jeff Roland and Keyanna Seville

Drs. Thomas Manning and Michael Holt, Faculty Advisers

"A 24 Hour Experiment to Examine Chemical, Physical, and Biological Aspects of Cycles in the Ocean"

Tabbitha Beckens, Ivana Domljanovic, Morgan Herrington, Kaylee Higginbotham, Melvin Johnson, Tysheon McGreggor, Khatiga Nasir, Alesia Neloms, Chelsie Northcutt, Lance Perry, Marissa Reyes, Jennifer Rivera, Marc-Edwin Saint-Louis, Shacore Smith, Amber Trice, Jamie Wilson, Brit Butler, Tess Baker, Sydney Plummer and Kelsey Johnson Dr. Thomas Manning, Faculty Adviser

"Calibrated Oxidation Potentials of Carotenoids Correlated to Scavenging Ability Toward Free Radicals in a Fenton Reaction"

Jeffrey Roland and Wesley Potter Dr. A. Ligia Focsan, Faculty Adviser

"Cycloaddition Reactions of Nitrile Oxides and Dienes"

James Connor Lord and Cody Phillips Dr. Jenny Baxter Vu, Faculty Adviser

"Detection of Nitric Oxide from Endothelial Cells Using Chemiluminescence from Thermostable Luciferase"

Andrew Mock and Natalia Stevens Drs. Jenifer Turco and Yakov Woldman, Faculty Advisers

"Developing a Computational Antibiotics Textbook for Publication on Amazon Kindle"

Andrew DeLong, Jared Harris, Brittany Larcart, Chandler Massey, Chelsie Northcutt, Somuayiro Nwokike, Oscar Otieno, Harsh Patel, Mehulkumar Patel, Pratikkumar Patel, Eugene Rowell, Brandon Rush, Marc-Edwin Saint-Louis, Amy Vardeman, and Felicia Woods Drs. Thomas Manning and Giso Abadi, Faculty Advisers

"Enzymatic Resolution of Chiral Alcohols"

Steve D. Watts and Jesse Prince Dr. Jenny Baxter Vu, Faculty Adviser

"Metal Organic Framework Materials for Controlled Drug Release"

Somuayiro N. Nwokike Dr. Tolulope O. Salami, Faculty Adviser

"Modular Building Blocks for Molecular Electronics and Energy Research: Preparation of Organoimido-Functionalized Polyoxotungstates"

Matthew May Dr. Dean C. Duncan, Faculty Adviser

"NMR, MALDI-TOF-MS, FT-ICR, and Cell Line Studies of Copper-Antibiotic Complexes"

Rachel Mikula, Aaron Calvin and Hilary Lee Drs. Thomas Manning (VSU), Greg Wylie (UGA), Dennis Phillips (UGA) and Ben Bythell (National High Field Magnet Lab), Faculty Advisers

"NMR, FT-ICR, TOF-MS, and Cell Line Studies of Novel Copper-Cancer Drug Complexes"

Aaron Calvin and Mallory Shannon Clark
Drs. Thomas Manning (VSU), Greg Wylie (UGA), Dennis Phillips (UGA),
Ben Bythell (National High Field Magnet Lab) and Fengli Zhang
(National High Field Magnet Lab), Faculty Advisers

"Polymer Modification of Iron (III) Oxide Nanoparticulate Films for Photocurrent Generation"

Aaron T. Calvin and Raymond G. Fontanez Dr. Linda de la Garza, Faculty Adviser

"Reactivity at Metal Oxide Surfaces: Study of Deimidation Reaction Kinetics in an Organoimido-Functionalized Polyoxometalate"

Jared Harris and Tysheon McGreggor Dr. Dean C. Duncan, Faculty Adviser

"Silica as a Medium for the Synthesis of Chiral Imines and Amines" Merchant Brock, Jennifer Rivera, Camry Winford and Gloria De La Garza Dr. John T. Barbas, Faculty Adviser

"Stimulating the Imagination: A Green Tech, Deep Ocean Retrieval System"

Cody Moncrief, Eric Haas, Elizabeth A. Atkinson, Donna F. Law, Brett Little, Chelsie D. Northcutt, Ryndell Langford, Hilary F. Lee, Gregory A. Jackson, Nicholas Fight and Jenna L. Lippincott Drs. Thomas Manning and Brian Gerber, Faculty Advisers

"Synthesis, NMR Assignments, Mass Spec, and National Cancer Institute Cell Line Studies"

Rachel Robertson, Tysheon McGregor, Matt May and J. Lance Perry Drs. Thomas Manning (VSU), Greg Wylie (UGA), Dennis Phillips (UGA), Ben Bythell (National High Field Magnet Lab) and Fengli Zhang (National High Field Magnet Lab), Faculty Advisers

"Synthesis of Boronic Esters on Silica, Molecular Sieves and Anhydrous Sodium Sulfate"

Anupa Gupta and Ingram Jermila Dr. John T. Barbas, Faculty Adviser

"Viscosity, Conductivity, Specific Heat and Colligative Properties of Alcohols"

Willis W. Brown, Aaron T. Calvin, Stephen I. Edwards, Bianca S. Farley, Haley A. Franklin, Rebekah E. Graham, Jermila S. Ingram, Tysheon McGreggor, Rachel T. Mikula, Andrew J. Mock, Alesia Nicole Neloms, Chelsie D. Northcutt, Mehulkumar P. Patel, Rachel L. Robertson, Frankie A. Stackhouse, Gregory R. Anzalone, Pamela L. Brown, Andrew V. DeLong, Anthony J. Fino, Alexis B. Garza, Ashley G. Humphries, Brittany S. Larcart, James C. Lord, Chandler B. Massey, Tyler L. Peterson, Michael J. Reaves, Jeffrey M. Roland and Keyanna M. Seville Drs. Thomas Manning and Aurora Perez Gramatges (PUC-Rio), Faculty Advisers



COMMUNICATION ARTS

"Determining the Effectiveness of ELM on Recruiting Members for an Organization through Social Media"

Erin Dobbins Dr. Michael Eaves, Faculty Adviser

"Elaboration Likelihood Model: How Persuasion Can Be Utilized to Accurately Predict an Upset in the NFL 'Against All Odds'"

Anthony DeFelice Dr. Michael Eaves, Faculty Adviser

"Linguistic Difficulties of International Students at VSU"

Grace Delacruz Dr. Michael Eaves, Faculty Adviser

COMMUNICATION SCIENCES AND DISORDERS

"Computerized Detection of Language Delay in a Child with Autism Spectrum Disorder"

Chelsea Bartholomew Dr. Jade Coston, Faculty Adviser

"Does Expressive Language Ability Correlate with Rate of Communication in Young Children?"

Christina Matta, Hannah Anderson, Ashley Camon and Jade Dampier Dr. Jade Coston, Faculty Adviser

"Long-Term Memory Retention of Common Words Spoken in Hebrew by CSD Students"

Hannah Elizabeth Leicher Drs. Ruth Renee Hannibal and Crystal Randolph, Faculty Advisers

"Students' Knowledge of Braille Literacy in the Field of Communication Disorders"

Heather Ward

Drs. Ruth Renee Hannibal, Crystal Randolph, Corine Myers-Jennings and James Archibald, Faculty Advisers

"The Exploratory Behaviors of Normally Developing Children" Shaddai Nicole Wiggs

Dr. Matthew Carter, Faculty Adviser

EARLY CHILDHOOD AND SPECIAL EDUCATION

"Bible in Education"

Eric Brantley
Dr. Lucia Lu, Faculty Adviser

"Bullying"

Cody Darr Dr. Lucia Lu, Faculty Adviser

"Child Abuse in the United States"

Keegan Puia Dr. Lucia Lu, Faculty Adviser

"Child Abuse in the United States"

Rebekah Swilley Dr. Lucia Lu, Faculty Adviser

"'Chiraq""—The Fallen City of Chicago"

Lorenzo Washington Dr. Lucia Lu, Faculty Adviser

"'Deforestation'—Environmental Issue"

Stephen B. DeFelice Dr. Lucia Lu, Faculty Adviser

"Dr. Martin Luther King, Jr.—My Hero"

Brynn Rone Dr. Lucia Lu, Faculty Adviser

"Dropout Nation"

DeJuan Green Dr. Lucia Lu, Faculty Adviser

"Gypsies the Wandering People"

Stephanie Hastings Dr. Lucia Lu, Faculty Adviser

"Homeless People in the United States"

Halie Imler

Dr. Lucia Lu, Faculty Adviser

"Immigrant Workers in the United States"

Joshua Abbott Dr. Lucia Lu, Faculty Adviser

"Jazz Music"

Erin Walsh

Dr. Lucia Lu, Faculty Adviser



"People Living in Poverty"

Ashley January Dr. Lucia Lu, Faculty Adviser

"People of Vanity"

Allante Fairley Dr. Lucia Lu, Faculty Adviser

"So What Is Linsanity?"

Larry Emery Dr. Lucia Lu, Faculty Adviser

"Students of Handicap in Special Education"

Caitlyn Calhoun Dr. Lucia Lu, Faculty Adviser

"The Different Version of the Gypsies"

Julianna Westray Dr. Lucia Lu, Faculty Adviser

"The Image of Africa"

Tracy M. Powell Dr. Lucia Lu, Faculty Adviser

"Tiger Moms"

Mariah Hollis Dr. Lucia Lu, Faculty Adviser

"Who Are the Taino People?"

Toi Allen Dr. Lucia Lu, Faculty Adviser

ENGLISH

"A History of Pompeii and Papa Beck"

Jessica Jarrell Dr. Deborah Hall, Faculty Adviser

"Why I Write"

Brooke McKinney Dr. Deborah Hall, Faculty Adviser

KINESIOLOGY AND PHYSICAL EDUCATION

"What's Happening in the Gym?: An Analysis of Physical Educators' Teaching Behaviors"

Savannah L. Smith, Russell Woske and Kevin Simpson Drs. Matthew A. Grant and Sonya L. Sanderson, Faculty Advisers

MATHEMATICS AND COMPUTER SCIENCE

"A Comparison of Prototype Smart Cars"

Dalton Gurley
Dr. Chunlei Liu, Faculty Adviser

"A Survey of Computer Assisted Driving"

Willie Lawrence, Edward Lawson and Kinard Thomas Dr. Chunlei Liu, Faculty Adviser

"A Survey of Self-Driving Cars"

David Robert Gully Dr. Chunlei Liu, Faculty Adviser



"Baking Raspberry Pi"

Sherri Burks and Alex Peterman Dr. Sudip Chakraborty, Faculty Adviser

"Clustering Marketing Data Using the Mahalanobis Distance"

Max Wang

Dr. Haiquan Chen, Faculty Adviser

"E-Commerce Fraud Schemes and Their Prevention"

Viktor Officer Graczyk Dr. Chunlei Liu, Faculty Adviser

"Growth of Usefulness in Educational Apps for Mobile Devices"

Lenzee E. Gillette Dr. Chunlei Liu, Faculty Adviser

"Let Me Guess Your Mind: User Activity Visualization and Prediction"

Travis Gibson, Sherri Burks, Robert Jenkins and Randy French Dr. Haiquan Chen, Faculty Adviser

"Shaping the Way We Consume Entertainment"

Jovan Van Dyke and Ethan Rogers Dr. Chunlei Liu, Faculty Adviser

"Survey of Wireless Technology for Near Field Communication"

Taray Eady and Cameron Thomson Dr. Chunlei Liu, Faculty Adviser

"The Wichmann and Hill Generator and Floyd's Algorithm: Determining Efficiency"

Jacob Benoit Dr. Jin Wang, Faculty Adviser

MODERN AND CLASSICAL LANGUAGES

"An Analysis of the General Practices in the Prevention of SSIs in the USA and Spain"

Ja'Marrius Thomas Dr. Adolfo Carrillo Cabello, Faculty Adviser

"An Analysis of Wages and Expenses of Doctors in the United States and Spain"

James Miller Dr. Adolfo Carrillo Cabello, Faculty Adviser

"An Examination of Spanish and U.S. Teacher Beliefs Regarding the Instruction of Grammar in the Foreign Language Classroom"

Hilaria Taft Dr. Victoria Russell, Faculty Adviser

"Availability and Delivery of Healthcare by Federally Funded Programs to the Elderly in the United States and Spain"

Elise Dawkins Dr. Adolfo Carrillo Cabello, Faculty Adviser

"Compliance of Life Choices for the Incapacitated"

Joshua Murray Dr. Adolfo Carrillo Cabello, Faculty Adviser

"¿CÓMO ESTÁ EL MÉDICO?: A Comparison of the Quality of Healthcare in Spain and the United States"

Tamelonie Thomas Dr. Adolfo Carrillo Cabello, Faculty Adviser



"Comparing the Amount of Target Language Instruction in U.S. and Spanish Classrooms"

Kristina Wingate Dr. Victoria Russell, Faculty Adviser

"Differing Speech Impediments in the Spanish and English Languages"

Caitlin Elizabeth Reagin Dr. Grazyna Walczak, Faculty Adviser

"Examining Federally Funded Healthcare Programs in the USA and Spain"

Rebecca Clark Dr. Adolfo Carrillo Cabello, Faculty Adviser

"Financial Duties Post Death for Inmates: A Comparison of Cadiz, Spain and Lowndes County"

Katie McLoughlin and Jordyn Holzer Dr. Adolfo Carrillo Cabello, Faculty Adviser

"Investigating Articulation Disorders in Spain"

Morgan Reynolds and Sarah Kate Clark Dr. Adolfo Carrillo Cabello, Faculty Adviser

"Measures to Reduce Perioperative Risks of Obstructive Sleep Apnea"

Blanca Hernandez

Dr. Adolfo Carrillo Cabello, Faculty Adviser

"The National Standards and Foreign Language Teachers: A Comparative Study Between the United States and Spain"

Sarah Allison Dr. Victoria Russell, Faculty Adviser

"The Role of Grammar Instruction and Its Effect on Teaching Methods"

Ashley Jacobs Dr. Victoria Russell, Faculty Adviser

NATIVE AMERICAN STUDIES

"Alcoholism: A Social Examination of the Pre- and Post-Colonial Native American"

Angel Nicole Hardy Dr. Lavonna Lovern, Faculty Adviser

"Eugenics and Native American Women: Legal Genocide"

Roderica Keisha Flucas Dr. Lavonna Lovern, Faculty Adviser

"Preserved But Not Undisturbed: The Native American Female"

Linda Morrison Dr. Lavonna Lovern, Faculty Adviser

"Sexual Abuse of Native American Women"

Alexis Raye Carter Dr. Lavonna Lovern, Faculty Adviser

NURSING AND HEALTH SCIENCES

"End-of-Life Care and Moral Distress"

Jacquelyn Gillaspy, Zsuzsanna Bartha, Joseph Pyles, Baily Korb and DeErika Williams Dr. Maura Schlairet Faculty Adviser

"Undergraduate Nursing Research and Future Success"

Britney Hadsock, Megan Moss, Becky Shell, Shelby Elder and Eve Macgonigle Dr. Maura Schlairet, Faculty Adviser



PHILOSOPHY AND RELIGIOUS STUDIES

"Differences Between Classical and Modest Foundationalism"

Robert Eric Spivey Dr. Lavonna Lovern, Faculty Adviser

"Dretske's Perception: Causal Analysis Versus Informational Analysis and Phenomenal Externalism"

Robert Dylan Hodge Dr. Lavonna Lovern, Faculty Adviser

"Feminist Zen and the Bodhisattva Path"

Susan Leigh Jones Dr. Michael Stoltzfus, Faculty Adviser

"Jewish, Greco-Roman and Christian Influence on the Infancy Gospel of Thomas"

Andrew Oaks Dr. Lily Vuong, Faculty Adviser

"Mindfulness Meditation in Intimate Relationships"

Tanner Tai Blue Dr. Michael Stoltzfus, Faculty Adviser

"Sexual Desire: A Philosophical Approach"

Pamela A. Johnson Dr. Lavonna Lovern, Faculty Adviser

"The Feminist Theories of Art"

Kaylan Faith Hand Dr. Christine James, Faculty Adviser

"The 'Prostitute' Uncovered"

Sydney Beckmann Dr. Lily Vuong, Faculty Adviser

PHYSICS, ASTRONOMY, GEOSCIENCES AND ENGINEERING STUDIES

"A New Method for Demonstrating that the Charge of an Electron is Quantized"

Steven K. Terry Dr. Frank Flaherty, Faculty Adviser

"Coring and Sampling of Soils from Ossabaw Island"

Megan D. Hunnicutt Dr. Donald M. Thieme, Faculty Adviser

"Design of Gas-Flow Inverter for Transformation of Steady-Flow into Pulsed-Flow"

Karl Pearce Dr. Hasson M. Tavossi, Faculty Adviser

"Effect of Metal Surfaces on Plasma Chemistry in a Commercial Grade Plasma Etching System"

Arthur Bui Dr. Dereth J. Drake, Faculty Adviser

"Engineering Mechanics: History and Significance" Lauren Hale, Carlos Ponce, Minh Tran and Byung Kim Dr. Barry Hojjatie, Faculty Adviser

"Fracture Analysis in the Oligocene Age Suwanee Limestone of North Florida"

William Simmons Dr. Mark Groszos, Faculty Adviser

"GPR Investigations on Jekyll Island"

Cliff Yearta Dr. Donald M. Thieme, Faculty Adviser

"Ground Penetrating Radar Investigation of a Sand Dune"

Rebecca M. Lenz Dr. Can Denizman, Faculty Adviser

"Petrographic Analysis of Bedrock Limestone Along the Suwanne River, Suwannee County, Florida"

Justin D. Harrison Dr. Mark Groszos, Faculty Adviser

"Researching and Developing a Climate Change Action Plan for Valdosta"

Rodney Brown, Shelby Dunbar, Rynada Folsom, Christopher Glenn, Nathaniel Jones, Gabriella McDonald, Richard Miller, Karen Mitchell, Charles Nimmo, Andrew Overcash, Rebecca Tucker, Thomas Turner, Malcolm Warren and Tanisha Williams Dr. Jia Lu, Faculty Adviser

"Sea Surface Temperature Trends in the Northern Gulf of Mexico Between 1921 and 2012"

John Vincent Clarke III Dr. Jason Allard, Faculty Adviser

"Study of Sand Dunes on Mars" Robert Butler Dr. Martha Leake, Faculty Adviser



"Water Chemistry Analysis of Surface—Groundwater Interactions of the Withlacoochee Sink Area"

Eric Emmett Dr. Can Denizman, Faculty Adviser

POLITICAL SCIENCE

"Alabama: A Southern Tradition"

Kenneth Donte Holiday Dr. James LaPlant, Faculty Adviser

"Louisiana: Not Just Another Southern State"

Margaret Maynard Dr. James LaPlant, Faculty Adviser

PSYCHOLOGY AND COUNSELING

"Effects of Participant Knowledge of Researcher Characteristics"

Crystal Johnston Dr. Jeremy Tost, Faculty Adviser

"Effects of the Media's Portrayal of Size on Body Satisfaction"

Anna-Leigh Powell Dr. Jeremy Tost, Faculty Adviser

"Public Perception of the Dairy Industry Based on Media Publications and Area a Person was Raised"

Thomas Jacob Hines Dr. Jeremy Tost, Faculty Adviser

"Self-Awareness and Anxiety"

James Ransom Whelan Dr. Jeremy Tost, Faculty Adviser

"The Effects of a Positive Cognitive Processing Behavior Modification Plan on Self-Image"

Kaylan F. Hand Dr. Jeremy Tost, Faculty Adviser

"The Effects of a Positive Self Talk Behavior Modification Plan on Anxiety"

Lisa Wiltsee Dr. Jeremy Tost, Faculty Adviser

"The Effect of Contemplation on Self-Control"

Samantha Kiley Dr. Jeremy Tost, Faculty Adviser



"The Effects of Gender and Social Networking on Desire for Face-to-Face Interactions and Mood"

Brenda Kay Brunston Dr. Jeremy Tost, Faculty Adviser

"The Effects of Noise on Concentration and Mood"

Kaylan F. Hand Dr. Jeremy Tost, Faculty Adviser

SOCIOLOGY, ANTHROPOLOGY AND CRIMINAL JUSTICE

"A Comparison of American and Taiwanese Police"

Matthew Towe Dr. Wilson Huang, Faculty Adviser

UNDERGRADUATE RESEARCH COUNCIL

The Undergraduate Research Council of Valdosta State University was organized in the fall semester of 2011. Membership includes faculty representative from the undergraduate academic departments and programs at VSU. The Council is charged with promoting undergraduate students' interest in research, with seeking ways to promote undergraduate students' involvement in research activities, and with helping faculty identify opportunities to involve undergraduates in research. The Council supports the implementation of Valdosta State University's Quality Enhancement Plan, which promotes undergraduate engagement in discipline-based inquiry. Prior to 2011, an undergraduate research symposium was celebrated for seventeen years in the College of Arts and Sciences.

COUNCIL MEMBERS 2013-2014

- Dr. James LaPlant, Chair of the Undergraduate Research Council
- Dr. Tom Aiello, African American Studies
- Dr. Glenda Swan, Art
- Dr. Gretchen Bielmyer, Biology
- Dr. Jenny Vu, Chemistry
- Dr. James Humphrey, College of Nursing and Health Sciences
- Dr. Michael Eaves, Communication Arts
- Dr. Jade Coston, Communication Sciences and Disorders
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- Dr. Anne Greenfield, English
- Dr. Mary Block, History
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- Dr. Jemal Mohammed-Awel, Mathematics and Computer Science
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- Dr. Tracy Woodard, Women's and Gender Studies
- Dr. Michael Black, Director for Institutional Effectiveness
- Ms. Erica Even, Student Member
- Ms. Megan Shelton, Student Member

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