

Poster Presentations

University Center Ballroom

SESSION I: 10 A.M. – 12 P.M.

Hollie Adejumo	Chemical, Biochemical, and Environmental Engineering “Antimicrobial Activity of Fluoroquinolone Antibiotics: Consequences for UV-based Wastewater Treatment” Professor Lee Blaney, Mentor	Poster # 20
Kerianne Allen	Mathematics and Statistics, Education “Increasing Student Knowledge on How to Identify and Describe Relationships among Inscribed Angles, Radii, and Chords” Professor Jonathan Singer, Mentor	Poster # 89
Chinwendu Amazuo	Biochemistry and Molecular Biology “Investigating a Potential Chemopreventive Agent in a Brca1 Mutant Mouse Model” Professor Laundette Jones, Mentor	Poster # 71
Sagar Bajpai	Biochemistry and Molecular Biology “Enhancing The Inducible Mouse Model for Prostate Inflammation” Professor Charles Bieberich, Mentor	Poster # 73A
Catherine Bloomer	Mathematics and Statistics, Education “Enhancing Students’ Level of Geometric Thinking through Van Hiele Phase-based Learning” Professor Christopher Rakes, Mentor	Poster # 25
Brittany Chatfield	Mathematics and Statistics, Education “Modeling Mathematics” Professor Christopher Rakes, Mentor	Poster # 99
Cho Fung Chim	Psychology “The Relation between Accurate Perception and Marital Satisfaction in Newlywed Couples” Professor Robin Barry, Mentor	Poster # 43
Rachel Crane	Sociology and Anthropology “Variation in Human Rights Violations in Iraq: 1991 to the Present” Professor Ilsa Lottes, Mentor	Poster # 48
Matthew Davis	Physics, Education “Motivating Students by Varying Media and Providing Differentiated Instruction” Professor Jonathan Singer, Mentor	Poster # 52
Stephen DiBenedetto, Brad Potteiger	Computer Science and Electrical Engineering “Anchor-Free Underwater Node Localization Scheme” Professor Mohamed Younis, Mentor	Poster # 123

Poster Presentations

David Eisen, Kevin Zhang	Computer Science and Electrical Engineering “The Influence of Brain Eigen Oscillation Frequencies (Control Channels) to the Executive Functions of Brains” Professor Fow-Sen Choa, Mentor	Poster # 79
Narges Ershad	Sociology and Anthropology “Violations of Human Rights in Four Non- western Countries: Afghanistan, Iran, Nigeria and Saudi Arabia” Professor Ilsa Lottes, Mentor	Poster # 82
Faith Evans	Psychology “Effects of Avoidant Coping on Daily Mood among Blacks and Latinos with Recent Discrimination Experiences” Professor Danielle Beatty, Mentor	Poster # 132
Shafaq Fatima	Psychology “Body Weight and Internalizing Problem Behaviors: Social Support, Self-Concept and Locus of Control as Protective Factors” Professor Shuyan Sun, Mentor	Poster # 113A
Scott Forster	Computer Science and Electrical Engineering “Improving Line of Sight Coverage of Remote Controlled Drone Using an Autonomous Quadcopter” Professor E.F. Charles LaBerge, Mentor	Poster # 9
Game Developers' Club Paul Tschirgi, Michael Leung, Alex Lacey, Tad Cordle, Calvin Kumagai, Eliot Carney-Seim, Austin Pagano	Visual Arts “Innovations in Computer Game Development” Professor Marc Olano, Mentor	Poster # 1
Sanchari Ghosh	Biological Sciences “Tumors May Prevent Anti-Tumor Immunity by Altering Plasma Membrane Molecules Essential for T-Cell Activation” Professor Suzanne Ostrand-Rosenberg, Mentor	Poster # 13
Andrew Goodwin	Biological Sciences “The Zebrafish Embryonic Brain is Tolerant to Oxygen Deprivation” Professor Rachel Brewster, Mentor	Poster # 40A
Hamsa Gowda	Chemical, Biochemical, and Environmental Engineering “Oxidized Cellulose Route to Production of Silver Nanoparticles” Professor Yordan Kostov, Mentor Professor Marie-Christine Daniel, Mentor	Poster # 60

Poster Presentations

Hannah Gutjahr	Psychology “Does Coping Style Account for Differences in Posttraumatic Stress Symptoms among Partner-Violent Men?” Professor Christopher Murphy, Mentor Professor Galina Portnoy, Mentor	Poster # 121
Jichele Harris	Mechanical Engineering “Correlation of Initial Steps and Balance in a Simulated Fall” Professor Mark Rogers, Mentor	Poster # 63
Nicholas Heroux	Psychology “Cognitive Effects of Proton Irradiation at Differing Energies and Exposures” Professor Bernard Rabin, Mentor	Poster # 119
Catherine Hornback, Abdullah Ali	Information Systems “Adaptive User Interfaces” Professor Amy Hurst, Mentor	Poster # 6
Michael Ishak	Biological Sciences “Environmental Effects on Cellular Differentiation Regulation” Professor Stephen Miller, Mentor Jose Ortega, Mentor	Poster # 109A
Jesse Johnson	Chemistry and Biochemistry “Examining a Metal-Binding Motif in Novel Inhibitors of the Hepatitis C Virus NS3 Helicase” Professor Paul Smith, Mentor	Poster # 77 A
Michaela Jones	Biological Sciences “Investigating a Requirement for the <i>shep</i> Gene in Cell Migration” Professor Michelle Starz-Gaiano, Mentor	Poster # 124A
Ki Jung, Julia Gao, Neema Philippe	Biological Sciences “Song Output and Patterning in Grasshopper Sparrows (<i>Ammodramus savannarum</i>)” Professor Bernard Lohr, Mentor	Poster # 33A
Caroline Jurney	Theatre “Attracting a Younger Audience to Live Theatre in Baltimore” Professor Susan McCully, Mentor	Poster # 15
Noora Kanfash	Health Administration and Policy “The Associations among Race, Marital Status, and Preventive Services” Professor Roland Thorpe, Mentor	Poster # 111
Noore-Sabah Khan	Psychology “Body Mass Index Moderates the Relation of Diary Negative Mood to Ambulatory Blood Pressure in Urban Blacks and Latinos” Professor Danielle Beatty, Mentor	Poster # 75

Poster Presentations

Jin Kim	Biological Sciences "Using Geolocators to Track Migratory Pathways of Orchard Orioles and Baltimore Orioles" Professor Kevin Omland, Mentor	Poster # 134A
Gregory Klock	History, Education "Writing and Remembering History" Professor Linda Oliva, Mentor	Poster # 106
Sekar Kulandaivel	Computer Science and Electrical Engineering "Alternative Control Paradigms for Remote-Controlled Helicopters" Professor John Park, Mentor	Poster # 11
Oleg Makarevich	Biological Sciences "An Analysis of the Function of L24 in the Ribosomal Complex" Professor Lasse Lindahl, Mentor	Poster # 72A
Logan Masters	History, Education "Vocabulary and Geographic Features Student Learning Objectives" Professor Linda Oliva, Mentor	Poster # 85
Samantha McDonald, Joshua Dutterer	Information Systems "Tactile Tools for Educational Research" Professor Amy Hurst, Mentor Professor Shaun Kane, Mentor	Poster # 117A
Amy Mickhael, Alex Woo, Abigail Matthews	Psychology "Experience and Enjoyment of Videogames and Virtual Reality Distraction from Pain" Professor Lynnda Dahlquist, Mentor	Poster # 76A
Danya Murali	Mathematics and Statistics "Calcium Waves in the Neuronal Dendrite: Signal for Cellular Learning" Professor Bradford Peercy, Mentor	Poster # 57
Steven Murcia	Sociology and Anthropology "United States Immigration Policy and Violations of Human Rights" Professor Ilsa Lottes, Mentor	Poster # 84A
Allyson Norris	History, Education "Improving Students' Argumentative Writing Skills Using Informational Texts" Professor Linda Oliva, Mentor	Poster # 68
Priyanka Ochaney, Mehnaz Ali Khan, Parsa Khosravian, Jeanice Hwang	Biological Sciences "Increasing Percent Survival of <i>Drosophila melanogaster</i> " Professor Jeff Leips, Mentor Mariann Gabrawy, Mentor	Poster # 138

Poster Presentations

Oseogie Okojie	Biological Sciences "An Analysis of SecM-induced Ribosomal Pausing in <i>Escherichia coli</i> " Professor Lasse Lindahl, Mentor	Poster # 81A
Kwadwo Owusu-Boaitey, Nnamdi Edokobi	Biological Sciences "Examining the RANK-L Inhibitor as a Potential Chemopreventative in BRCA1 Mutant Mouse Models"	Poster # 29A
Clarence Pascual	Biological Sciences "The Diversity of Ribosomal Protein Function" Professor Lasse Lindahl, Mentor	Poster # 30
Timothy Potteiger, William Heckert	Computer Science and Electrical Engineering "Autonomous Capacitor Bank Controller: A Means For Distribution Line Voltage Regulation" Professor E.F.Charles LaBerge, Mentor Professor John Pinkston, Mentor	Poster # 126
Munanchu Poudel	Biological Sciences "The Role of Polycomb Genes in the Development of <i>Volvox carteri</i> " Professor Stephen Miller, Mentor	Poster # 122A
Alec Pulianas	Computer Science and Electrical Engineering "Hardware Implementation of Support Vector Machine Learning Algorithm for Personalized Seizure Detection using EEG Signal" Professor Tinoosh Mohsenin, Mentor	Poster # 96
Elizabeth Quinones	Dance, Education "Dance Literacy" Professor Christopher Rakes, Mentor	Poster # 127
Casey Rezac	Psychology "Do People with Antisocial Personality Disorder Engage in Different Patterns of Abuse than Other Partner Violent Men?" Professor Chris Murphy, Mentor	Poster # 102
Amy Rizkallah, James Han	Biochemistry and Molecular Biology "The Search for DNA Binding Sites on Crotamine through Protein Chemical Modifications" Professor Richard Karpel, Mentor	Poster # 53
Nicole Ryan	Chemistry, Education "Reading Tables and Graphs in the Science Classroom" Professor Jonathan Singer, Mentor	Poster # 108
Adam Rybczynski	Biological Sciences "Functional Response of Parasitoid Wasps to Host Density: Implications for Density Dependent Selection" Professor Jeff Leips, Mentor	Poster # 41

Poster Presentations

Becca Scharf	Health Administration and Policy “Investigating the Association between Having A Same Sex Relationship and Self Reported Health in Europe” Professor Jamie Trevitt, Mentor	Poster # 113
Alicia Serrato	Psychology “College Students' Reading Comprehension Monitoring of Lexical and Semantic Violations in Think Aloud and Response Time” Professor Linda Baker, Mentor	Poster # 104
Pranjal Singh, Dominick DiMercurio II	Mathematics and Statistics “A Simplified Mathematical Model to Predict Activation of Migration of Drosophila Egg Chamber Border Cells” Professor Bradford Peercy, Mentor Professor Michelle Starz-Gaiano, Mentor	Poster # 80A
Eric Sluder, Nicole Whewell	Computer Science and Electrical Engineering “Design of a Non-invasive, Low Cost Brain-Computer Interface to Communicate Emotional State” Professor E.F. Charles LaBerge, Mentor Professor Fow-Sen Choa, Mentor	Poster # 56
Amanda Sockriter	English, Education “The Impact of Free Writing on Formal Writing Assignments” Professor Cheryl North, Mentor	Poster # 27
Natalie Steenrod	Chemistry and Biochemistry “Targeting the Nucleocapsid Protein of HIV-1 (NCp7) with Nucleobase Flexibility” Professor Katherine Seley-Radtke, Mentor	Poster # 44A
Nicholas Stewart	Computer Science and Electrical Engineering “Using Structural Parameters in Transcription Factor Binding Site Prediction” Professor Ivan Erill, Mentor	Poster # 32A
Doris Taylor	Biological Sciences “Effect of Irritant Exposure on Mice” Professor Weihong Lin, Mentor	Poster # 69A
Patricia Timi	Biological Sciences “Comparison of Electrophysiological Biomarkers in Rodents and Humans under Acute and Chronic NMDA Receptor Antagonism” Professor Patricio O'Donnell, Mentor	Poster # 39
Thanhlong Tran	Biological Sciences “Dietary Restriction and the Effects of the Syndecan Gene on Lifespan in Drosophila” Professor Jeff Leips, Mentor	Poster # 120A

Poster Presentations

Carlos Turcios	Sociology and Anthropology “Capital Stigma: Fundamental Human Rights Violations of Transgender Persons in the Baltimore-Washington Metro Area” Professor Ilsa Lottes, Mentor	Poster # 130
Krizia-Ivana Udquim	Biological Sciences “Detection and Discrimination of Botrytis Species Using Quantitative Polymerase Chain Reactions Melting Curve Analysis” Professor Brenda Schroeder, Mentor	Poster # 70
Kathy Vu, Nan Zhou	Psychology “Chinese Immigrant and European American Mothers' Parenting Beliefs: A Cultural Understanding of Parental Control” Professor Charissa Cheah, Mentor	Poster # 37A
William Weeks	History, Education “Student Learning Outcomes for the Social Studies Middle School Classroom” Professor Linda Oliva, Mentor	Poster # 45
Bianca West	Psychology “Are College Women's Perceptions of Women Influenced by Skin Tone and Body Size?” Professor Mariano Sto. Domingo, Mentor	Poster # 94
Keerthi Yarlagadda	Psychology “Comprehension Monitoring of College Students Reading Inconsistent Texts in Think Aloud and Response Time Protocols” Professor Linda Baker, Mentor	Poster # 65
Tamerat Yilma	Chemistry and Biochemistry “The Quantification of Phospholipids in Cell Growth Media” Professor William LaCourse, Mentor	Poster # 115A
Joyce Yoon	Chemistry, Education “Improving Scientific Writing through Basic Writing Skills and Scaffolding” Professor Jonathan Singer, Mentor	Poster # 91
Ezzedine Zaatari, Jesse Johnson	Biological Sciences “Monitoring Cell Growth throughout the <i>Chlamydomonas reinhardtii</i> Cell Cycle” Professor Lark Claassen, Mentor	Poster # 35

Poster Presentations

University Center Ballroom

SESSION II: 12 – 2 P.M.

Sara Arussy	Chemical, Biochemical, and Environmental Engineering “Determining the Effects of Autophagy on Morphology of <i>Aspergillus nidulans</i> ” Professor Mark Marten, Mentor	Poster # 109B
Sara Azeem	Biological Sciences “Study of rbfA Suppressor in <i>Escherichia coli</i> ” Professor Philip Farabaugh, Mentor	Poster # 22
Ademayowa Balogun	Biological Sciences “Incorporation of L4 into Ribosomes is Temperature Dependent in L4 Mutant Strains” Professor Lasse Lindahl, Mentor	Poster # 72B
Kim Berghaus, Matthew Wilcox	Physics “Periodic Poling of Electro-Optic Polymers for Efficient Terahertz Generation” Professor Michael Hayden, Mentor	Poster # 73B
Robert Breen	Chemistry and Biochemistry “Quantification of Buffering Agents in Cell Culture Media” Professor William LaCourse, Mentor	Poster # 115B
Drew Buckingham	Physics, Education “Increasing College and Career Readiness through Laboratory Experiments” Professor Jonathan Singer, Mentor	Poster # 19
Vivian Chioma	Interdisciplinary Studies “Fear Be Gone: Endocannabinoids Modulate Subsecond Dopamine Release During the Extinction of Fear Memories” Professor Joseph Cheer, Mentor	Poster # 105
Sergiu Costinas	Biological Sciences “Determining Song Choice in Song Birds” Professor Bernard Lohr, Mentor	Poster # 61
Christine Cruz	History “The Lost Colony: Finding Elyoner” Professor Terry Bouton, Mentor	Poster # 100
Raissa Dantas	Chemical, Biochemical, and Environmental Engineering “Production of <i>Aspergillus nidulans</i> Mutants for the Study of Protein Secretion Mechanisms” Professor Mark Marten, Mentor	Poster # 122B
Andrea Duval	French, Education “Learning In the French Language Classroom: The Effect of Weekly Listening Comprehension Exercises on Student Learning” Professor Linda Oliva, Mentor	Poster # 128

Poster Presentations

Samantha Eng	Biochemistry and Molecular Biology “Characterizing the Foraging Behavior of Malaria Vectors During the Wet Season in Nchelenge, Zambia” Professor Douglas Norris, Mentor	Poster # 110
Alexander Evans	Psychology “The Relationship between Academic and Social Self-Concepts and Reading and Mathematics Achievement” Professor Shuyan Sun, Mentor	Poster # 113B
Robert Gagliardi, Ralph Kenneth Colmenar	Physics “Investigation into Dipole Interactions of Ultra-Cold Fermions in a Harmonic Trap” Professor Jason Kestner, Mentor	Poster # 31
Game Developers' Club Paul Tschirgi, Michael Leung, Alex Lacey, Tad Cordle, Calvin Kumagai, Eliot Carney-Seim, Austin Pagano	Visual Arts “Innovations in Computer Game Development” Professor Marc Olano, Mentor	Poster # 1
Deepika Gorre	Psychology “Associations Between Early Parental Involvement, Home Language, and Academic Achievement in Later School Years” Professor Shuyan Sun, Mentor	Poster # 78
Jeremy Gosnell	Mathematics and Statistics, Education “Precision in Measurement” Professor Christopher Rakes, Mentor	Poster # 93
Molly Greenhouse	Ancient Studies “The (Be)coming of the Greeks: Reviewing Archaeological Evidence for Greek Arrival ca. 2200 B.C.E.” Professor Esther Doyle Read, Mentor	Poster # 46
Xiaofei He, Patrick Husson	Computer Science and Electrical Engineering “Image Processing for Steel Quality Control” Professor E.F. Charles LaBerge, Mentor	Poster # 125
Mary Hester	Political Science “Arts Advocacy: Promoting Policy Change” Professor Carolyn Forestiere, Mentor	Poster # 24
Marcus Hockaday, Kathleen Greaney, Jamie Jaegers, Arielle Ngameni Mouani	Aging Studies “BreakingGround with Connect” Professor Galina Madjaroff, Mentor	Poster # 136
Abigail Jackson, Jessica Ortega	Biological Sciences “A Mathematical Model of Melanopsin Phototransduction and Light Adaptation” Professor Phyllis Robinson, Mentor Professor Kathleen Hoffman, Mentor	Poster # 10

Poster Presentations

Dimitri Jordan, Jean Hopewell	Sociology and Anthropology “An Updated Perspective on Fishman's Eight Stages of Language Loss” Professor Robert Rubinstein, Mentor	Poster # 2
Omar Koita	Biological Sciences “Analysis of Cell Cycle Proteins after Distortion of Ribosome Biogenesis” Professor Lasse Lindahl, Mentor Md. Shamsuzzaman, Mentor	Poster # 81B
Valerie Koury	Psychology “Gender Differences in Pain Tolerance and Pain Intensity among College Students” Professor Lynnda Dahlquist, Mentor	Poster # 76B
Lauren Lochocki	Political Science “Is the Voting Rights Act Still Necessary?: Attitudinal Support of Electoral Reform in a Post-Jim Crow Era” Professor Tyson King-Meadows, Mentor	Poster # 36
Gaurav Luthria	Chemistry and Biochemistry “Structural Elucidation of RNA using Modern Energy Optimization Methods” Professor Bruce Johnson, Mentor	Poster # 114
Samantha McDonald, Jeremy Chang	Information Systems “Usability of a Universal Jamming Gripper for Mobility Impairments” Professor Amy Hurst, Mentor	Poster # 117B
Jonathan Neal	Social Work “Empathy Reconceptualized as a Dynamic Skillset” Professor Diane Alonso, Mentor	Poster # 12
Rebecca Neubauer	Chemistry and Biochemistry “Development of a Real World Screening Method for Nutraceuticals Using DSA-TOF” Professor William LaCourse, Mentor	Poster # 42
Akua Nimarko	Biological Sciences “Expression Profile of Putative Receptors involved in Xenobiotics Detection in Mouse Olfactory Epithelium” Professor Weihong Lin, Mentor	Poster # 69B
Chisom Nwaneri	Biological Sciences “The Minimal Important Difference in the Borg Dyspnea Score for Patients with Pulmonary Arterial Hypertension” Professor Stephen Mathai, Mentor	Poster # 34

Poster Presentations

Maeva Nyandjo	Biological Sciences “The Oxidative Stress Response Transcription Factor Nrf2 Does Not Affect BM Progenitor Cell Differentiation into MDSC” Professor Suzanne Ostrand-Rosenberg, Mentor	Poster # 90
Uchenna Okoro, Royce E. Onyimba	Biochemistry and Molecular Biology “Flexible Guanine Nucleobase Inhibitors of the HIV-1 Nucleocapsid Protein NCp7” Professor Katherine Seley-Radtke, Mentor	Poster # 44B
Heather Perry	Ancient Studies “Building Egypt's Pyramid: A Lithic Past” Professor Esther Doyle Read, Mentor	Poster # 3
Alexander Pilon	Psychology “Empathy Scores of Alcoholics and Non-Alcoholics” Professor Diane Alonso, Mentor	Poster # 83
Catina Ramis	Music, Education “The Correlation between Aural Musicianship and Accuracy of Instrumental Music Playing” Professor Jonathan Singer, Mentor	Poster # 131
Rosalind Ramsey	Chemical, Biochemical, and Environmental Engineering “Carbon Monoxide Analysis in the Baltimore Area” Professor Christopher Hennigan, Mentor	Poster # 38
Patrick Roderick	Computer Science and Electrical Engineering “Retention of Computing Majors” Professor Marie desJardins, Mentor	Poster # 14
Michelle Seu	Chemistry and Biochemistry “Investigation of Dimerization Mechanisms in the Simian Immunodeficiency Virus 5'-Untranslated Region” Professor Michael Summers, Mentor	Poster # 74
Ian Shaffer	Chemistry and Biochemistry “A Multifaceted Approach for the Analysis of Electronic Cigarettes using DSA-TOF and Headspace GC-MS” Professor William LaCourse, Mentor	Poster # 88
Christian Sias	Physics “Examining the Photoluminescence and Band Gap Energy of Gallium Arsenide (GaAs)” Professor Anthony Johnson, Mentor	Poster # 50
Callison Sims	Biological Sciences, Education “Mathematics Instruction in Mendelian Genetics” Professor Jonathan Singer, Mentor	Poster # 66

Poster Presentations

Stephanie Stookey	Biological Sciences “Optimization of Triacylglycerol Production in <i>C. zofingiensis</i> and Enzyme-based Conversion for Biodiesel Production” Professor Yantao Li, Mentor	Poster # 133
Blossom Tewelde	Biochemistry and Molecular Biology “Identification of a Novel Alternatively-spliced mRNA Isoform of the Human Taste Receptor TAS1R3” Professor Steven Munger, Mentor	Poster # 7
Phoebe Tsoi	Biochemistry and Molecular Biology “Synthesis of Dendritic System for the Delivery of Chemotherapeutic Agents” Professor Marie-Christine Daniel, Mentor	Poster # 58
Michael Valerino	Chemical, Biochemical, and Environmental Engineering “Development of an Inexpensive, Portable Seawater pCO ₂ Analyzer for Estuarine Waters” Professor Christopher Hintz, Mentor	Poster # 55
Ann Marie Weideman, Bilal Moiz	Mathematics and Statistics “Asymmetric Activation Patterns: The Impact of Extracellular Geometry on the Distribution of Signaling Molecules” Professor Bradford Peercy, Mentor Professor Michelle Starz-Gaiano, Mentor	Poster # 80B
Charles White	Biological Sciences “Determining Song Output in Song Birds” Professor Bernard Lohr, Mentor	Poster # 33B
Pauline Xu	Biochemistry and Molecular Biology “Mechanism of Post-Translational Modification of Glyceraldehyde-3-Phosphate-Dehydrogenase by Dithiolethione Compounds” Professor Elsa Garcin, Mentor	Poster # 28
Saiah Yates	Biological Sciences “The Great Escape: The Effects of Medication and Age on <i>Drosophila</i> Strength” Professor Jeff Leips, Mentor	Poster # 120B

Poster Presentations

University Center Ballroom

SESSION III: 2 – 4 P.M.

Fadaka Adebayo	Health Administration and Policy “Use of Social Marketing Principles to Promote Positive Diabetes Care Practices in Older Hispanics and African Americans” Professor Angelica Herrera, Mentor	Poster # 129
Jeania Afrin	Physics, Education “Improving Brief Constructed Responses (BCRs) in Science Using RACES Strategy” Professor Jonathan Singer, Mentor	Poster # 21
William Angel	Biological Sciences “Investigating Reciprocal Regulation of the Circadian Clock by Plant Innate Immunity” Professor Hua Lu, Mentor	Poster # 109C
Ifemayowa Aworanti	Chemical, Biochemical, and Environmental Engineering “Ion Exchange and Mixed-Mode Chromatography for the Optimization of Protein Purification” Professor Douglas Frey, Mentor	Poster # 67
Amber Barnett	Ancient Studies “Captain Henry Dashiell's Papers and Neo-Latin, the Continued International Use of Latin in the 18 th Century” Professor Esther Doyle Read, Mentor	Poster # 40C
Michael Berlin	Computer Science and Electrical Engineering “Using Machine Learning to Classify Trouble Tickets” Professor Tim Finin, Mentor	Poster # 17
Grace Calvin	Psychology “Maternal Psychological Well-being, Parenting Style, and Chinese Immigrant Children's Social-Emotional Adjustment” Professor Charissa Cheah, Mentor	Poster # 37C
Susanna Campbell	Biological Sciences “Testing For Female Song in Newly Recognized Species: The Puerto Rican Oriole” Professor Kevin Omland, Mentor	Poster # 134C
Briani Claggett	Biological Sciences “Genetic Basis of Natural Variation in Innate Immune Function: The Effects of Syndecan on Phagocytosis” Professor Jeff Leips, Mentor	Poster # 120C

Poster Presentations

Erica Dasi	Biological Sciences "Characterization of Novel Signaling Regulators in Cell Migration in <i>Drosophila</i> " Professor Michelle Starz-Gaiano, Mentor	Poster # 124C
Beshaun Davis	Psychology "Practitioner Preferences Regarding Psychosis Risk Screening" Professor Jason Schiffman, Mentor	Poster # 51
Mariana de Matos Medeiros, Natasha Barlow, Nour Al Ghriwati	Psychology "Effects of Anticipatory Anxiety on Children's Pain Tolerance" Professor Lynnda Dahlquist, Mentor	Poster # 76C
Eugene Dorestal	Music, Education "Improving Sight Reading" Professor Jonathan Singer, Mentor	Poster # 49
Christine Dougherty	Biological Sciences, Education "Improving Students' Proficiency In Reading Skills, Strategies, And Comprehension Through Guided Instruction" Professor Jonathan Singer, Mentor	Poster # 62
Vy Duong	Biological Sciences "Functional Characterization of Soybean <i>JAR1</i> Gene in <i>Arabidopsis thaliana</i> " Professor Hua Lu, Mentor	Poster # 122C
Michael Fornaro	Mathematics and Statistics, Education "Increasing Student Achievement by Outlining Curriculum with Guiding Problems" Professor Jonathan Singer, Mentor	Poster # 64
Elizabeth Forney	English, Education "A Compound-Complex Problem: Methods for Increasing Sentence Variation" Professor Cheryl North, Mentor	Poster # 59
Jeremy Fryer	History, Education "Improving Students' Critical Thinking When Using Charts and Graphs" Professor Linda Oliva, Mentor	Poster # 23
Game Developers' Club Paul Tschirgi, Michael Leung, Alex Lacey, Tad Cordle, Calvin Kumagai, Eliot Carney-Seim, Austin Pagano	Visual Arts "Innovations in Computer Game Development" Professor Marc Olano, Mentor	Poster # 1
Alexandra Grieves	Spanish, Education "The Effect of Progress Checkpoints on Student Performance" Professor Linda Oliva, Mentor	Poster # 103

Poster Presentations

Raquel Grinage	History "Rhinelander v Rhinelander: Challenging Racial Hierarchies in the 1920s" Professor Michelle Scott, Mentor	Poster # 107
Brenda Gutierrez	Biological Sciences "DNA Barcoding for Pharmaceutical Discovery in Fungal Endophytes" Professor George Weiblen, Mentor	Poster # 16
Imesha Kalansuriya	Psychology "Clinical and Psychosocial Factors Associated with Pediatric Sickle Cell Retinopathy" Professor Shawn Bediako, Mentor	Poster # 118
Amy Kim	Mathematics and Statistics, Education "Applying Mathematical Modeling in the STEM 8 Classroom" Professor Christopher Rakes, Mentor	Poster # 101
Sam Kott	Psychology "Two Hearts Beat As One: A Study of Spouses' Agreement Regarding Disengaged and Engaged Communication Behavior" Professor Robin Barry, Mentor	Poster # 8
Robbin Lee	Media and Communication Studies "Reframing the Window of Chinese Society II: Contemporary Art of the Millennial Generation" Professor Fan Yang, Mentor	Poster # 116
Justine Lottermoser	Chemistry and Biochemistry "Chromosome Conformation Capture in the chr13q22.1 Pancreatic Cancer Risk Locus" Professor Laufey Amundadottir, Mentor Dr. Jason Hoskins, Mentor	Poster # 54
Vanessa Mackley, Vani Ravichandran	Chemical, Biochemical, and Environmental Engineering "Using a Microelectrode Array Plate to Induce Action Potentials in Neural Cells Affected by Alzheimer's Disease" Professor Jennie Leach, Mentor	Poster # 137
Sarah Malesh	English, Education "Student Learning Objective: Relevant Ideas in Writing" Professor Cheryl North, Mentor	Poster # 97
John Malloy	Bioinformatics and Computational Biology "Using Nuclear Introns to Infer the Evolutionary History of a Vulnerable Australian Songbird, the Norfolk Island Robin" Professor Kevin Omland, Mentor	Poster # 29C

Poster Presentations

Kori McDonald	Chemistry and Biochemistry “The Characterization of All Carbon Structures, C4, C5, and C6” Professor Joel Liebman, Mentor	Poster # 135
Cara McGaughran	Ancient Studies “Pottery Production Techniques of Ancient Greece” Professor Esther Doyle Read, Mentor	Poster # 5
Tim Mullaney	Sociology and Anthropology “Human Rights Violations in the Prison Industrial Complex” Professor Ilsa Lottes, Mentor	Poster # 44C
David Nicholson	Biological Sciences “Identifying Regulatory Sequences in Metagenomic Samples via Parallelized Search Algorithms and Permutation Analysis” Professor Ivan Erill, Mentor	Poster # 32C
John Papanikos	Chemistry and Biochemistry “Synthesis of a New Potential Inhibitor of the Hepatitis C Virus Helicase” Professor Paul Smith, Mentor	Poster # 77C
Hinali Patel	Psychology “Children's Views about How Math Is Used by Themselves and Others” Professor Susan Sonnenschein, Mentor	Poster # 84C
Timothy Pillsbury	Physics “Using Quasi-Phase Matching for Enhanced Terahertz Generation” Professor Michael Hayden, Mentor	Poster # 73C
Ryan Price	Chemistry, Education “Increasing Success in Honors Chemistry at Meade High School Incorporating Student Feedback” Professor Jonathan Singer, Mentor	Poster # 87
Nicolas Quizon	Biochemistry and Molecular Biology “Diagnosis in the First View: Dropped-Head Congenital Muscular Dystrophy Caused by <i>de novo</i> Mutation in the <i>Lamin A/C</i> Gene” Professor Sebahattin Cirak, Mentor	Poster # 92
Donald Richardson	Mathematics and Statistics “Development of a Cell Migration Model to Characterize Clustered Movements” Professor Bradford Peercy, Mentor	Poster # 80C

Poster Presentations

David Rivas	Physics “Determining the Degree of Radiative Deceleration of Blazar Jets Due to Inverse Compton Scattering from Seed Photons in Molecular Torus” Professor Markos Georganopoulos, Mentor	Poster # 112
LaTonya Simon	Biological Sciences “ROS Mediators Control E-cadherin Expression in Drosophila Prohemocytes” Professor Nancy Fossett, Mentor	Poster # 95
Alexandra Slepushkina	Ancient Studies “Plain Ware Artifacts from Israel” Professor Esther Doyle Read, Mentor	Poster # 4
Suejane Tan	Biological Sciences “Optimization and Exploration of Sampling Methods Affecting Ionization Efficiency for Direct Sample Analysis (DSA)” Professor William LaCourse, Mentor	Poster # 98
Danielle Tyson	Biological Sciences “Characterization of Microvillous Cell Function in the Murine Main Olfactory Epithelium” Professor Weihong Lin, Mentor	Poster # 69C
Paul Weisko	History “Do the Posters Match the Writings: Russian Civil War Leaders' Writings and Propaganda Posters” Professor Kate Brown, Mentor	Poster # 26
Michael Zurkowski	Interdisciplinary Studies, Education “Student Learning Outcome: Communicating Engineering Design” Professor Jonathan Singer, Mentor	Poster # 47