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| Student(s): **Brielle Levenberg,** **Chaz Atkinson**Mentor(s): **Ms. Colette Searls** **Artistic Performance Presentation****PAHB 337, 10:30 am** | **“A Scene and Monologue Rehearsed for the Irene Ryan Scholarship Auditions”*****Theatre*** |
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| Student(s): **Daniela Mujica-Martorell**Mentor(s): **Dr. Preminda Jacob,** **Ms. Dominique Zeltzman** **Film Presentation****UC 204, 10:30 am** | **“Between the Lines”*****Visual Arts*** |
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| **Oral Presentations in Engineering 023** |
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| Student(s): **Julian Tash**Mentor(s): **Dr. Meredith Oyen** **10:00 am** | **“Burnt Bridges over Troubled Waters: A History of Territorial Disputes in the South China Sea”*****History*** |
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| Student(s): **Tyler Duckett**Mentor(s): **Dr. Anne Sarah Rubin** **10:15 am** | **“The Textbook Factor: Assessing Civil War Memory in Post-War Education, 1865-1915”*****History*** |
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| Student(s): **Flora Kirk**Mentor(s): **Dr. Melissa Bailey** **2:15 pm** | **“I Was Here: Roman Coins in the Third Century AD and their Role in Immortalizing Emperors”*****Ancient Studies*** |
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| **Oral Presentations, University Center, Room 310** |
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| Student(s): **James Loy**Mentor(s): **Dr. Matthew Pelton** **10:45 am** | **“Charge Transfer from Single Semiconductor Nanocrystals to Single Molecules”*****Physics*** |
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| Student(s): **Da'Kuawn Johnson**Mentor(s): **Dr. Christine Jacobs-Wagner, Dr. Rodrigo Arias Cartin** **11:15 am** | **“Characterization of the Bacteriophage CR30 Homolog (gp140) of HarP”*****Biochemistry and Molecular Biology*** |
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| Student(s): **Caitlyn Maczka**Mentor(s): **Dr. David Eisenmann** **1:00 pm** | **“Characterization of an Embryonic Skin Enhancer Element from the C. elegans pax-3 gene”*****Biological Sciences*** |
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| Student(s): **Andreas Seas**Mentor(s): **Dr. Alexey Kamenskiy,** **Dr. Jason MacTaggart** **1:15 pm** | **“Effects of Demographics and Risk Factors on the Elastic Strain Energy of Human Superficial Femoral Arteries”*****Chemical, Biochemical, and Environmental Engineering*** |
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| Student(s): **Seung Ho Choi**Mentor(s): **Dr. Michael F. Summers,** **Mr. Joshua Brown** **2:15 pm** | **“Probing the Structure of the HIV-1 5′-L Monomeric Conformation and Start Site Heterogeneity By NMR Spectroscopy”*****Biochemistry and Molecular Biology*** |
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| Student(s): **Hannah Carter**Mentor(s): **Dr. Michael F. Summers,** **Mr. Joshua Brown** **2:30 pm** | **“Probing the Structure of the HIV-1 5′-L Monomeric Conformation and Start Site Heterogeneity By NMR Spectroscopy”*****Chemistry and Biochemistry*** |
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| Student(s): **Mashhood Wani, Natalie Steenrod, Poornima Patel**Mentor(s): **Dr. Minjoung Kyoung** **3:00 pm** | **“Sustain-O-Scope: Simple Compound Light Microscope”*****Chemistry and Biochemistry*** |
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| Student(s): **Queenie Tran**Mentor(s): **Dr. Charissa Cheah** **11:00 am** | **“Parental Warmth Moderates the Association between Parenting Practices and Chinese-American Children’s Academic Outcomes”*****Psychology*** |
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| **Oral Presentations, University Center, Room 312** |
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| Student(s): **Sarah Spicer**Mentor(s): **Dr. Piotr Gwiazda** **1:15 pm** | **“Cracked Messiah: Parody and Parable in Kurt Vonnegut's Troutean Novels”*****English*** |
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| Student(s): **Brittney Kramer, Elizabeth Chen, Alexa Abee**Mentor(s): **Dr. Lindsay DiCuirci** **1:30 pm** | **“Mill Girls in Nineteenth-Century Print”*****English*** |
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| Student(s): **Emily Grace**Mentor(s): **Ms. Lia Purpura** **2:15 pm** | **“By Ear: Hearing Poems into Being”*****English*** |
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| Student(s): **Akinlolu Afolabi**Mentor(s): **Dr. Nancy Kusmaul** **3:15 pm** | **“Perceptions of Police: African Immigrants vs. African American Citizens”*****Social Work*** |
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| **Poster Presentation, University Center Ballroom, 10 am to 4 pm** |
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| Student(s): **Daniela Mujica-Martorell, Alison Kreckmann, Lindsay Glang**Mentor(s): **Ms. Sally Shivnan, Ms. Guenet Abraham**  | **“Storyboarding the Creative Process: An Interdisciplinary Look into the Collaborative Production of Bartleby”*****English*** |
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| Student(s): **Erika Schumacher,** **Ryley Mayer, Claire Blevins,** **Christopher Lense, Roberto Melgar**Mentor(s): **Mr. Eric Jordan**  | **“Alkaheist, Two-Dimensional Platformer, Explorations in Team-based Game Development”*****Computer Science*** |

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| **Poster Presentations, University Center Ballroom, 10 am to 12 pm** |
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| Student(s): **Olubukola Abiona, Natalie Harris**Mentor(s): **Dr. Weihong Lin**  | **“Regulating Chemical Access to Mouse Vomeronasal Organ by Solitary Chemosensory Cells”*****Biological Sciences*** |
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| Student(s): **Hannah Aris**Mentor(s): **Dr. Lee Blaney**  | **“Recovery of Nutrients from Chicken Litter to Create a Slow-release Fertilizer”*****Chemical, Biochemical, and Environmental Engineering*** |
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| Student(s): **Ann Cirincione**Mentor(s): **Dr. Maricel Kann**  | **“Identification of Molecular Properties to Cluster Genetic Markers of Cardiovascular Disease”*****Bioinformatics and Computational Biology*** |
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| Student(s): **Katlyn Easter**Mentor(s): **Dr. Jason Schiffman**  | **“Analysis of Psychosis-Risk Screener and Interview Response Mismatch”*****Psychology*** |
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| Student(s): **Chana Honick**Mentor(s): **Dr. Zeev Rosenzweig**  | **“Environmentally Benign Semiconductor Quantum Dot/Polymer Hybrid Solar Cells”*****Chemistry and Biochemistry*** |
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| Student(s): **Chloe Kwon**Mentor(s): **Dr. William LaCourse**  | **“Characterization of Biodegradable Polymers Using TGA-GC/MS”*****Chemistry and Biochemistry*** |
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| Student(s): **Amry Majeed**Mentor(s): **Dr. Daniel Beury,** **Dr. Suzanne Ostrand-Rosenberg**  | **“The Role of the Transcription Factor Nrf2 in Regulating the Function of MDSC”*****Biochemistry and Molecular Biology*** |
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| Student(s): **Christina Nordmark**Mentor(s): **Dr. Michelle** **Starz-Gaiano**  | **“Imaging Three-Dimensional Space around Migratory Cells”*****Biological Sciences*** |
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| Student(s): **Amanda Perera,** **Sarah Moshman**Mentor(s): **Dr. Lynnda Dahlquist**  | **“Prior Video Game Experience and the Effectiveness of Video Game Distraction”*****Psychology*** |
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| Student(s): **Sarah Pollock**Mentor(s): **Dr. Minjoung Kyoung**  | **“Engineering of the FRB Domain of the Mechanistic Target of Rapamycin (mTOR) to Probe Transient Interactions”*****Biochemistry and Molecular Biology*** |
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| Student(s): **Tracee Simms**Mentor(s): **Dr. Robin Barry**  | **“Is Cognitive Inflexibility Associated with Physical Aggression, Emotional Abuse, and/or Sexual Abuse in Relationships?”*****Psychology*** |
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| Student(s): **Savannah Steinly**Mentor(s): **Dr. Lee Blaney**  | **“Mapping the Specific Molar Extinction Coefficients of Organometallic Compounds”*****Chemical, Biochemical, and Environmental Engineering*** |
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| Student(s): **Julian Tash,** **Jennifer Christhilf**Mentor(s): **Dr. Constantine Vaporis**  | **“The Middle Kingdom’s Middle Ground: Understanding China’s Conciliatory Policy in the Mekong River”*****Asian Studies*** |
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| Student(s): **Devin Taylor**Mentor(s): **Dr. Marie-Christine Daniel**  | **“Understanding Gold Nanoparticle Drug Delivery Systems for Therapeutic Use”*****Chemistry and Biochemistry*** |
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| Student(s): **Aviva Zapinsky**Mentor(s): **Dr. Lasse Lindahl,** **Mr. Md. Shamsuzzaman**  | **“Ribosomal Biosynthesis after Repression of Specific Ribosomal Protein Genes”*****Biological Sciences*** |
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| Student(s): **Fan Zhang**Mentor(s): **Ms. Viviana Cordova**  | **“Seeing Science”*****Visual Arts*** |
| **Poster Presentations, University Center Ballroom, 12 to 2 pm** |
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| Student(s): **Lynne Deckel**Mentor(s): **Dr. Cheryl North**  | **“Improving Argumentative Writing in Co-taught Tenth-Grade English”*****English*** |
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| Student(s): **Paige Dutrow**Mentor(s): **Dr. Christopher Rakes**  | **“Student Interest and Performance on Mathematics Word Problems”*****Mathematics and Statistics*** |
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| Student(s): **Manpreet Kaur**Mentor(s): **Dr. Bernard Lohr**  | **“Vocal Development in Grasshopper Sparrow (*Ammodramus savannarum pratensis*) Nestlings from Hatching to Post-Fledging”*****Biological Sciences*** |
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| Student(s): **Maureen McGowan,** **Priya Surapaneni,** **Danielle O'Neill**Mentor(s): **Dr. Jasmine Abrams**  | **“Addressing Location, Literacy, and Cultural Barriers for a Prenatal Health Intervention in Haiti”*****Psychology*** |
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| Student(s): **Daniel Ocasio**Mentor(s): **Dr. Lee Blaney**  | **“Photokinetic Determination of Environmentally Relevant Pharmaceuticals for UV-Based Applications in Treatment Facilities”*****Chemical, Biochemical, and Environmental Engineering*** |
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| Student(s): **Sayre Posey**Mentor(s): **Dr. Linda Oliva**  | **“Evaluating Primary Source Documents: Using Evidence to Support Claim Writing in the Social Studies Classroom”*****History*** |
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| Student(s): **Justin Leonel Santos**Mentor(s): **Dr. Michael F. Summers**  | **“Characterization of the HIV-1 5’UTR Dimerization Mechanism”*****Chemistry and Biochemistry*** |
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| Student(s): **Michelle Seu**Mentor(s): **Mr. Symmes Gardner, Dr. Cynthia Wagner, Dr. Elizabeth Picciuto**  | **“The Importance of Physical Beauty to the Modern American Woman”*****Interdisciplinary Studies*** |
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| Student(s): **Nevin Varghese**Mentor(s): **Dr. Tim Jarvela,** **Dr. Iris Lindberg**  | **“The Role of Neuronal Chaperone proSAAS in Blocking 𝛼-synuclein Cytotoxicity”*****Chemistry and Biochemistry*** |
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| **Poster Presentations, University Center Ballroom, 2 to 4 pm** |
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| Student(s): **Kathleen Carino, Augusto Benavides Panizo**Mentor(s): **Dr. Weihong Lin,** **Dr. Tatsuya Ogura**  | **“The Effects of Chemical and Physical Irritants on Olfactory Sensory Neuron Death in Mice”*****Biological Sciences*** |
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| Student(s): **Matthew Cook, Jessica Black, Cameron Riddell, Sara Mast**Mentor(s): **Dr. Raimi Quiton**  | **“An Unexpected Relationship between Pain Catastrophizing and Pain Modulation in Young Adults”*****Psychology*** |
| Student(s): **Joelle Cusic,** **Andrew Butler**Mentor(s): **Dr. Richard Karpel**  | **“Study of Binding Activity of Crotamine-Au Nanoparticles with DNA”*****Biochemistry and Molecular Biology*** |
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| Student(s): **Elise Donkor**Mentor(s): **Dr. Tinoosh Mohsenin**  | **“Heart Monitoring System for Personalized Arrhythmia Detection”*****Computer Science and Electrical Engineering*** |
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| Student(s): **Amelia Hallworth**Mentor(s): **Dr. Hua Lu**  | **“Investigating the Role of PRR5, PRR7, and PRR9 in Regulating Plant Immunity”*****Biological Sciences*** |
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| Student(s): **Jonathan Luckin**Mentor(s): **Dr. Markos Georganopoulos**  | **“Understanding the Mysterious Energy Content of the Lobes of Radio Galaxies through Numerical Simulations”*****Physics*** |
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| Student(s): **Anna Opoku-Agyeman**Mentor(s): **Dr. Gunes Koru,** **Mr. Dari Alhuwail**  | **“The Role of Cultural Competency and Health Information Technology Adoption in Quality Home Care”*****Biological Sciences*** |
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| Student(s): **Amirreza Saharkhiz**Mentor(s): **Dr. Liang Zhu**  | **“Evaluating Accuracy of the Algorithm/Formula Used in Store-brand Digital Thermometers to Predict Body Temperature”*****Mechanical Engineering*** |
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| Student(s): **Rima Sakhawala**Mentor(s): **Dr. Stephen Miller**  | **“Investigating RLS1 Protein Localization and the Evolutionary Origins of Cellular Differentiation”*****Biological Sciences*** |
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| Student(s): **Justin Taylor, Aakash Bajpai, Matthew Bleakney, Nicholas Rabuck**Mentor(s): **Dr. Panos Charalambides**  | **“Assisting the City of Baltimore in Maintaining and Upgrading its Aging Water Distribution Network”*****Mechanical Engineering*** |
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| Student(s): **Nicholay Topin**Mentor(s): **Dr. Marie desJardins**  | **“Value Function Approximation Mapping Creation for Knowledge Transfer”*****Computer Science and Electrical Engineering*** |
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| Student(s): **Joel Tyson**Mentor(s): **Dr. Gymama Slaughter**  | **“Biocompatibility of a Self-Powered Glucose Biosensing System”*****Chemical, Biochemical, and Environmental Engineering*** |