

Summer Fellows Research Symposium

Friday, July 23rd, 2021

8:45-9:00am – Continental Breakfast – IDC Atrium

9:00-9:50am – Session I – Poster Presentations – IDC Atrium

Paige Bristow – Using “Click Chemistry” to Assemble DNA-Conjugated Dendrimersomes (Mentor: Samantha Wilner)

Cassie Burke and Liz McKenna – Delivering Ciprofloxacin into Antibiotic Resistant E. Coli Using Peg-Modified Carbon Nanotubes (Mentor: Mark Ellison)

Mya Knappenberger – The Behavioral Alterations that a High Fat Diet has in Female Rodents (Mentor: Stephen Kolwicz)

Jess Lamarca – The Sands of Time: Understanding the Roles and Effects of Turbidity Flow Velocity on Grain Size and Grain Alignment Within Recent and Ancient Turbidite Deposits (Mentors: Leah Joseph and Tristan Ashcroft)

Kayla Ruiz – Exploring the Effect of Neuroinflammatory Mediator S1 Glycoprotein on Microglia Activation (Mentor: Jennifer King)

Ken Sprankle – Exploring Sex Differences in Mice Fed the Ketogenic Diet (Mentor: Stephen Kolwicz)

Nasya Stinson – Whom Does Black Liberation Theology Seek to Liberate?: Gender and Sexuality in Enon Tabernacle Baptist Church’s Christian Doctrine (Mentor: Patricia Lott and Edward Onaci)

Liam Worcheck –Living Music: How I Learned to Stop Worrying and Love the Screen (Mentor: Rosa Abrahams)

Jesse Wun and Zenya Yanoff – Synthesis and Assembly of Oligonucleotide-Stabilized Lipid Micelles (Mentor: Samantha Wilner)

Victoria Bearden – Urban Forests and their Potential to Combat Food Insecurity: Analyzing Street Trees in Baltimore, MD for their Edibility (Mentors: Patrick Hurley and Tristan Ashcroft)

Melanie DeRosa and Simba Kanjanda – Investigating Protein Interactions Important for Synapse Formation in the Brain (Mentor: Jennifer Round)

Annabella Orsini – Advancement in Infrared Optics through the Exploration of Solution Derived Arsenic Selenide Thin Films (Mentor: Casey Schwarz)

Kristen Cooney – Urban Forests and Their Potential to Combat Food Insecurity: Analyzing Foods from Street Trees in New York City, NY (Mentors: Patrick Hurley and Tristan Ashcroft)

Ally St. Jean – Synthesis and Testing of a BODIPY-based Fluorogenic Probe for Chlorite Detection (Mentor: Ryan Walvoord)

Paige D’Elia – Direct Amination of Hydroxyfluorophores via One-Pot Smiles Rearrangement Hydrolysis (Mentor: Ryan Walvoord)

Evan Yanagawa – Improved Substrate Scope and Linker Optimization for Coumarin-Based Smiles Rearrangement (Mentor: Ryan Walvoord)

John Klee and Julia Pierson – Skeletal Muscle Force Analysis in Male and Female Mice With Aging (Mentor: April Carpenter)

10:00-10:59am – Session II – IDC and Pfahler Hall Classrooms

Pfahler Musser Auditorium

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| 10:00 am | Emily Hammett, Stephen Hu, and Rachel Snyder – p -adic Valuation Trees of Quadratic Polynomials (Mentor: Olena Kozhushkina) |
| 10:20 am | Camille Mills – I Am a Revolutionary?: The Black Panther Party and the Problem of Solidarity (Mentors: Patricia Lott and Edward Onaci) |
| 10:40 am | Zachary Couvillion, John Lin, Patrick McCourt – Generating Function Identities from Vertex Algebras (Mentor: Christopher Sadowski) |

IDC 116

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| 10:00 am | Brian Barker – Revitalization of the Marsteller Observatory (Mentor: Cassandra Martin-Wells) |
| 10:20 am | Sophie Lear: Investigating the Interaction Between PAM-1 and WEE-1.3 During Meiosis in <i>C. elegans</i> (Mentor: Rebecca Lyczak) |
| 10:40 am | Mackenzie Owens – US Bilateral Relations with China and its Effects on US-India and US-Japan Relations (Mentor: Rebecca Evans) |

Pfahler 107

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| 10:00 am | Samantha Zubler – Investigating the Potential degradation of Cutin via Thermophilic Microbes (Mentors: Eric Williamsen and Anthony Lobo) |
| 10:20 am | Carly Rodriguez and Tatiana Swindell – Conducting a Time Course Assay to Assess the Neuro-inflammatory Induced Changes to Microglia Phagocytic Activity and Cytoskeleton Structure (Mentor: Jennifer King) |
| 10:40 am | Anastasia Dziekan – Hysteria: A Collection of Feminist Horror (Mentor: Jon Volkmer) |

Pfahler 208

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| 10:00 am | Serena Rose Gaskin – Spirituality, Statistics, and Stereotypes: The African American Woman's Use of Spirituality as a Form of Resistance (Mentor: Terri Ofori) |
| 10:20 am | Thomas Boccuto, Samuel Kirk, Seraiah Kutai, and Kristen Mosley – Amplification of Hidden Periodic Motions in 3D Videos (Mentor: Christopher Trahie) |

Pfahler 209

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| 10:00 am | Jacob Ryan – The Art of the Story (Mentor: Meghan Brodie) |
| 10:20 am | Connor Donovan – Towards the Homotopy Type of the Morse Complex (Mentor: Nicholas Scoville) |
| 10:40 am | John Byrne – The Selfless Voter: Altruism and Irrationality in Economic Voting (Mentor: Ann Karreth) |

11:00-11:59am – Session III – IDC and Pfahler Hall Classrooms

Pfahler Musser Auditorium

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| 11:00 am | Annie Stockmal – <i>Bi the Way: An Interview-Based Study of the Coming Out Experiences of College-Aged Bisexuals</i> (Mentor: Sheryl Goodman) |
| 11:20 am | Benjamin Henwood – <i>Freedom of Speech and Opinions on Economic Policy</i> (Mentor: Andrew Economopoulos) |
| 11:40 am | Kevyn Dewees and Bethlehem Endeshaw – <i>The Effects of Alcohol on Behavior and the Brain</i> (Mentor: Carlita Favero) |

IDC 116

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| 11:00 am | Joshua Walker – <i>Cultural Appropriation in International Hip Hop Communities</i> (Mentors: Edward Onaci and Patricia Lott) |
| 11:20 am | Benjamin Antill and Kyle Merlo – <i>Probing Antibiotic Resistance Mechanisms in Ciprofloxacin-Resistant Coliforms and Clarithromycin-Resistant Enterococci</i> (Mentor: Anthony Lobo) |

Pfahler 107

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| 11:00 am | Raeann Risko – <i>Watch Your Language! A Foundational Course Exploring Language of Gender and Sexuality</i> (Mentor: Rebecca Evans) |
| 11:20 am | Nikole Fandino Pachon, Erica Kitterman, Amanda Marley – <i>Investigating the Role of Cellular Quality Control Systems in the Regulation of Prion Formation</i> (Mentor: Dale Cameron) |
| 11:40 am | David Rocha – <i>Rome’s Missing Legion</i> (Mentor: Diane Amoroso-O’Connor) |

Pfahler 208

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| 11:00 am | Jean Setenet and Matthew Seeburger – <i>Effect of pH on the Motion of Sodium Ions in Carbon Nanotubes</i> (Mentor: Mark Ellison) |
| 11:20 am | Julie Cherneskie and Austin Mickles – <i>Crop Species Identity and Diversity Influence Carbon and Nitrogen Mineralization in Soil</i> (Mentor: Denise Finney) |

Pfahler 209

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| 11:00 am | Abby Peabody – <i>Social Movements and Candidate Emergence Among Women</i> (Mentor: Ann Karreth) |
| 11:20 am | Quaran Davis – <i>Genetic Interaction Between PAM-1 and MPF</i> (Mentor: Rebecca Lyczak) |
| 11:40 am | Sarah Buck – <i>Mystery & Magic: Playwriting in Theory and Practice</i> (Mentor: Meghan Brodie) |