Poster Session I  8:30-10:00
(Christiana Care Health System, Nemours Biomedical Research, Veterans Affairs Medical Center, Medical & Molecular Sciences, Epidemiology, Nursing, Kinesiology & Applied Physiology, Physical Therapy, Behavioral Health & Nutrition, Health Sciences, Communication Science & Disorders)

Christiana Care Health System
Alexis Holland, Biology (INBRE) (Wesley College)
Shannon Virtue, Behavioral Health Psychology (Christiana Care Health System)
*Psychosocial Needs and Coping Skills in Comorbid Diabetes and Cancer Patients*

Pedro Rosario-Favela, Bioengineering (INBRE) (DSU)
Daniel Meara, Department of Dentistry/Education Faculty (Christiana Care Health System)
*TBD*

Akram Ahamed, Biomedical Engineering (INBRE)
Jennifer Goldstein, Department of Medicine (Christiana Care Health System)
*The Sale of Life Saving Prescription Drugs on Craigslist: A National Survey*

Hui-Hsuan Chen, Medical Diagnostics (INBRE)
Jason Weinberger, Department of Surgery (Christiana Care Health System)
*TBD*

Olivia Tharp, Biological Sciences (INBRE) (DTCC)
Eric Kmiec, Gene Editing Institute (Christiana Care Health System)
*Global Analysis of CRISPR-Cas Homology Directed Repair Diversity*

Meera Garg, Neuroscience/Political Science (INBRE) (University of Pittsburg)
Joseph Bennett, General Surgery/ Surgical Oncology (Christiana Care Health System)
*TBD*

Shreya Kolipaka, Neuroscience (INBRE)
Stephanie Guarino, Hematology Transitions Program/Value Institute (Christiana Care Health System)
*The Association Between Time to Pain Medication and Emergency Department Utilization Among Adolescent/Young Adult Sickle Cell Patients*

Amber Conyers, Biological Science (INBRE) (DSU)
Kimberly Gannon, Neurology (Christiana Care Health System)
*Assessment of Risk Factors for Atrial Fibrillation*

Ayodelemi Ekundayo, Biological Sciences (INBRE) (DSU)
John Pollard, Neurology (Christiana Care Health System)
*How Useful are Stat Overnight EEGs in the Neuro Critical Care Unit (NCCU)?
Amy Jackson, Nursing (INBRE)
Melanie Chichester, Nursing High Risk Unit (Christiana Care Health System)
_Evaluating Third Stage of Labor in Second Trimester Deliveries_

Fidel Romo Martinez, Biological Sciences (INBRE) (DSU)
Susan Birkhoff, Nursing Research (Christiana Care Health System)
_TBD_

Lidia Palmese, Cognitive Science (INBRE)
Michael Vest, Pulmonary Intensivist (Christiana Care Health System)
_TBD_

Yessica Martinez, Biology-Health Professions (INBRE) (DSU)
Mia Papas, Value Institute (Christiana Care Health System)
_**Food Insecurity in General Medicine Outpatients at Christiana Care Health System**_

**Nemours Biomedical Research**
Samuel Freer, Biomedical Engineering (INBRE)
Rob Akins & Karyn Robinson, Clinical Research (Nemours A.I. duPont Hospital for Children)
_TBD_

Matthew Dina, Biological Chemistry (INBRE) (Wesley College)
Stephanie Deutsch, General Pediatrics & Pat Harty, Medical Imaging (Nemours A.I. duPont Hospital for Children)
_TBD_

Nicole Rawding, Nursing (INBRE)
Rochelle Hass, Orthopedics/Rehabilitation Medicine/Psychology & Margaret Zysk, Concussions (Nemours A.I. duPont Hospital for Children)
_TBD_

Sharon Kung, Medical Diagnostics (INBRE)
Sonali Barwe & Anilkumar Gopalakrishnapillai, Research (Nemours A.I. duPont Hospital for Children)
_Role of Tetraspanins in Bone Marrow Microenvironment Mediated Chemoprotection of Leukemia Cells_

Keerthana Chintalapati, Undeclared (INBRE) (Washington University)
Kyoko Nagao & Shunji Tomatsu, Research (Nemours A.I. duPont Hospital for Children)
_TBD_

Paige Amendum, Biological Sciences (S&E)
Shunji Tomatsu, Research (Nemours A.I. duPont Hospital for Children)
_Elevation of Glycosaminoglycans in Human Blood Samples_

Matthew Piechnik, Medical Diagnostics (CPW Bio)
Shunji Tomatsu, Research (Nemours A.I. duPont Hospital for Children)
_Liver-Targeted AAV8 Gene Therapy in Mucopolysaccharidosis IVA Murine Model_
Veterans Affairs Medical Center  
Carissa Walkosak, Liberal Arts (INBRE)  
Kristen Hyland, VA Medical Center (VA Medical Center)  
Fructosamine vs. A1c; Provider Knowledge and Retrospective Analysis in Veteran Cohort

Medical & Molecular Sciences  
Luisa Abadia, Biological Sciences (SF)  
Mona Batish, Medical & Molecular Sciences  
Generation of Stable Cell Lines Expressing Exogenous Circular RNA

Gina Roslan, Nutritional Science (SF)  
Mona Batish, Medical & Molecular Sciences  
The Interaction Between Proteins EWSFLI1 and NKX2.2 in Ewing’s Sarcoma

Sydney Shuster, Medical Laboratory Science (INBRE)  
Mona Batish, Medical & Molecular Sciences  
Single-Molecule Imaging of Structured RNA Decay in Stress Granules

Emily Hodgkins, Medical Laboratory Science (INBRE)  
Esther Biswas, Medical & Molecular Sciences  
Comparative Analysis of Strong and Weak ATPases, DnaB and ABCA4, Using ADP-GloTM Versus Malachite Green Assays

Janae Latta, Biological Sciences (INBRE)  
Esther Biswas, Medical & Molecular Sciences  
Immunocharacterization of Domain-Specific Antibodies Against the Retina-Specific ABCA Transporter, ABCA4

Sarah Barndt, Applied Molecular Biology & Biotechnology (INBRE)  
Subhasis Biswas, Medical & Molecular Sciences  
DnaB Alpha Structure Analysis: Study of Alpha Domain Using Fluorescence Resonance Energy Transfer (FRET)

Afu Owusu-Donkor, Medical Diagnostics (McNair)  
Subhasis Biswas, Medical & Molecular Sciences  
Anion Exchange Purification of a Bacterial DNA Helicase, DnaB Protein of Escherichia coli

Amber Grunow, Biochemistry (SF)  
Vijay Parashar, Medical & Molecular Sciences  
Biosynthesis and HPLC purification of c-di-AMP Using Recombinant DisA

Reda Zahran, Medical Laboratory Sciences (INBRE)  
Vijay Parashar, Medical & Molecular Sciences  
Role of Phosphorylation of Response Regulator Vicr in C-Di-AMP-Mediated S. mutans Biofilm Formation
**Epidemiology**
Nkeiruka Ashiedu, Health Behavior Science (McNair)
Jennifer Horney, Epidemiology Program
*Fine Particulate Matter and its Effects on Asthma in Delaware*

Sarah Hooks, Public Health (Unidel) (Texas A&M)
Jennifer Horney, Epidemiology Program
*Using CASPER to Determine Health Risks from Incinerators in Environmental Justice Communities*

**Nursing**
Yiqi Wang, Nursing (S&E)
Xiaopeng Ji, Nursing
*TBD*

**Kinesiology & Applied Physiology**
Lyla Handoklow, Bioengineering (CBER NSF REU) (University of Illinois at Chicago)
Elisa Arch, Kinesiology & Applied Physiology
*Effect of Load Carriage on Natural Ankle Quasi-Stiffness*

Ahlad Neti, Biomedical Engineering (INBRE)
Elisa Arch, Kinesiology & Applied Physiology
*TBD*

George Class-Peters, Medical Diagnostics (INBRE)
Thomas Buckley, Kinesiology & Applied Physiology
*Concussion Knowledge and Attitudes Do Not Predict Reporting Behaviors Among Physically Active College Students*

Jillian Driver, Athletic Training (Unidel) (Gustavus Adolphus College)
Thomas Buckley, Kinesiology & Applied Physiology
*Predicting Total Mood Disturbance of Colligate Hockey Players Using Head Impact Data*

Emma Fink, Neuroscience (S&E)
Thomas Buckley, Kinesiology & Applied Physiology
*Concussion Does Not Impair Trails A & B Performance*

Autumn Gourley, Psychology (INBRE)
Thomas Buckley, Kinesiology & Applied Physiology
*Do Baseline Psychological Factors Predict Subsequent Musculoskeletal Injury in the Year After Concussion?*

Carissa Aekins, Physiology/Neurobiology (Unidel) (University of Connecticut)
Roxana Burciu, Kinesiology & Applied Physiology
*Comparison of Lower-Limb and Upper-Limb Force Production in Individuals with Parkinson’s Disease*
Hason Jafrey, Nursing (INBRE)
Roxana Burciu, Kinesiology & Applied Physiology
*Changes in Balance in Individuals with Early Stage Parkinson's Disease*

Andrez Jones, Health Behavior Science (McNair) & Austin Schimmel, Exercise Science (S&E)
Nancy Getchell, Kinesiology & Applied Physiology
*How Do Fidget Spinners Affect Fine Motor Control and Underlying Prefrontal Cortex Function? An fNIRS Study*

Alissa Strouse, Exercise Science (INBRE)
Thomas Kaminski, Kinesiology & Applied Physiology
*Assessing Balance and Neurocognitive Function After an Acute Bout of Heading in Youth Female Soccer Players*

Madelyn Guidash, Exercise Science (S&E)
Christopher Knight, Kinesiology & Applied Physiology
*Comparison of Isometric and Dynamic Protocols to Test Rapid Muscle Force Production*

Christina Mesbah, Dietetics (S&E)
Shannon Lennon, Kinesiology & Applied Physiology
*Ultra-Processed Foods and Vascular Function*

Leah Fisher, Biomedical Engineering (CBER NSF REU) (Wichita State University)
Kurt Manal, Kinesiology & Applied Physiology
*Musculoskeletal Modeling of Patellofemoral Contact Force While Walking 3 Months After ACL Reconstruction*

Anna Faunce, Biomedical Engineering (INBRE)
Jennifer Semrau, Kinesiology & Applied Physiology
*A Dynamic Robotic Task for Measuring the Modulation of Kinesthesia: A Pilot Study*

Haley Gill, Exercise Science (Delaware Rehabilitation Institute)
Jennifer Semrau, Kinesiology & Applied Physiology
*Does Proprioception Matter in a Dynamic Bimanual Object Hit Task*

**Physical Therapy**
Ankita Prasad, Neuroscience (S&E)
Anjana Bhat, Physical Therapy
*Comparing fNIRS-based Cortical Activation Between Children with Autism Spectrum Disorder (ASD) and Without ASD During Synchronized Postural Sway and its Relationship to Praxis/Motor Performance*

Brooke Tripp, Exercise Science (PT)
Anjana Bhat, Physical Therapy
*The Effects of Creative Movement Interventions on the Motor and Social Skills of Children with Autism Spectrum Disorder*
Chanel Smith, Biological Sciences (INBRE)
Hyosub Kim, Physical Therapy
*Dissociating Implicit Motor Learning from Variable Sensory Prediction Versus Target Errors*

Joie Tang, Exercise Science (ADaPT)
Hyosub Kim, Physical Therapy
*Characterizing the Effect of Persistent Target Error on Implicit Motor Learning*

Rachel Gaston, Health & Exercise Science (Unidel) (Bridgewater College)
Michele Lobo, Physical Therapy
*Development of Reaching Behaviors Across Time in Infants with Mild, Moderate, or Severe Motor Delays*

Isiah Hiatt, PVAB (McNair)
Michele Lobo, Physical Therapy
*Exploring the Effect of Different Pneumatic Actuators on the Arm’s Abduction Angle*

Parma Elizabeth Wright, Biological Sciences (Nucleus)
Michele Lobo, Physical Therapy
*Influence of Parent-Child Interaction on Infant Motor Development*

Dara Priester, Actuarial Science (INBRE)
Susanne Morton, Physical Therapy
*Relationships Between Pain and Cognition in Adults with Chronic Low Back Pain*

Mykel Jenkins, Forensics Biology (INBRE) (DSU)
Darcy Reisman, Physical Therapy
*Stroke and Physical Therapy*

Arif Peracha, Biomedical Engineering (McNair)
Karin Silbernagel, Physical Therapy
*TBD*

Ariona Thornton, Athletic Training (INBRE)
Karin Silbernagel, Physical Therapy
*Comparison of Lower Limb Muscle Activity in Dominant Versus Non-Dominant Sides During Walking and Jumping*

Dominic Veliz, Kinesiology/Exercise Science (CBER NSF REU) (UTEP)
Karin Silbernagel, Physical Therapy
*Comparison of Muscle and Tendon Morphology and Function Between Dominant and Non-Dominant Legs*

Jessica Palmaccio, Nursing (INBRE)
Megan Sions, Physical Therapy
*Applying NIH Task Force on Chronic Low Back Pain Research Standards to Characterize Adults with Trans-tibial Amputations*
Gloria Soto, Nutrition & Medical Sciences (McNair)
Lynn Snyder-Mackler, Physical Therapy
The Effect of Split-Belt Treadmill Walking on Lower Extremity Kinetics and Kinematics

Behavioral Health & Nutrition
Arlett Ramirez, Nutritional Sciences/Dietetics (INBRE)
Sheau Ching Chai, Behavioral Health & Nutrition
Chocolate Chews with Ashwagandha Extract Correlated to Stress and Anxiety Reduction in Women

Catherine Davis, Dietetics (S&E)
Carly Pacanowski, Behavioral Health & Nutrition
The Prevalence of Eating Disorders Among Anxiety, Mood, and Personality Disorders

Hadja Toure, Health Behavior Science (Pattison Award)
Kelebogile Setiloane, Behavioral Health & Nutrition
African Immigrant Food Behavior

Health Sciences
Caitlin Berger, Exercise Science (S&E)
Martha Hall, Health Sciences
TBD

Elizabeth deBruin, Medical Diagnostics (S&E)
Martha Hall, Health Sciences
TBD

Danielle Kempner, Health Sciences-Occupational Therapy (S&E)
Martha Hall, Health Sciences
TBD

Heidi Knutsen, Mechanical Engineering (S&E)
Martha Hall, Health Sciences
TBD

Kiersten McCormack, Psychology (S&E)
Martha Hall, Health Sciences
TBD

Jaeah Yoo, Mechanical Engineering (S&E)
Martha Hall, Health Sciences
TBD

Communication Science & Disorders
Charlotte Robinson, Allied Health Sciences (Unidel) (University of Connecticut)
Frances Earle, Communication Science & Disorders
Language Ability Predicts Health Literacy Skills
Poster Session II  
(Biological Sciences, Chemistry & Biochemistry)  

10:15-11:45

Biological Sciences
Jisoo Hong, Biological Sciences (CPW Bio)
Fidelma Boyd, Biological Sciences
*Phenotypic Analysis of Quorum Sensing Mutants in Vibrio parahaemolyticus*

Chun-Kit Shum, Quantitative Biology (CPW Bio)
Fidelma Boyd, Biological Sciences
*The Analysis of Phosphodiesterase CpdA in Vibrio parahaemolyticus*

Yasmin Mann, Biological Sciences (Nucleus)
Carlton Cooper, Biological Sciences
*The Role of Oxidative Stress in Prostate Cancer Metastasis to Bone*

Katie Coscia, Cell Biology & Biochemistry (Unidel) (Georgia Gwinnett College)
Melinda Duncan, Biological Sciences
*Investigating the Mechanisms of Aniridic Cataract*

Paige Faasuamalie, Neuroscience (Lafayette LEARN) (Lafayette College)
Melinda Duncan, Biological Sciences
*Impact of a Pax6 Mutation on Inflammation and Fibrosis in the Cornea*

Ananya Garg, Biological Sciences (Nucleus)
Melinda Duncan, Biological Sciences
*The Activation of Inflammatory and Fibrotic EGR1 Targets in Lens Cells After Cataract Surgery*

Nicole Rossi, Biological Sciences (CPW Bio)
Melinda Duncan, Biological Sciences
*The Role of Lactase-Like in Adult Lens Homeostasis*

Declan Bado, Biological Sciences (INBRE)
Velia Fowler, Biological Sciences
*Definitive Erythropoiesis of MEL DS19 Cells: Functional Analyses of Tropomodulin 1 and 3*

Amy Lin, Biological Sciences (INBRE)
Deni Galileo, Biological Sciences
*Identification of Microglial Cells During Chick Embryo Brain Development Using Different Markers*

Alena Brown, Biology (EPSCoR) (Wesley College)
Thomas Hanson, Biological Sciences
*Do Toxic Cyanobacteria Lurk in Delaware’s Ponds?*
Miranda Marini, Marine Science (EPSCoR)
Thomas Hanson, Biological Sciences
Is the Delaware River Harboring Novel Chemolithoheterotrophic Microbes?

Alekya Bheemreddy, Biological Sciences (CPW Bio)
Aimee Jaramillo-Lambert, Biological Sciences
Investigating the Knockdown of Tdpt-1 in Top-2 Variants During Meiosis in C. elegans

Darline Murat, Biological Sciences (McNair)
Aimee Jaramillo-Lambert, Biological Sciences
The Effects of Reducing Condensin in the Mutant Topoisomerase Allele, Top-2(lt7), During C. elegans Meiosis

Francisco Hernández, Applied Molecular Biology & Biotechnology (Nucleus)
Salil Lachke, Biological Sciences
TBD

Sabrina Luther, Biological Sciences (Jeremy Axe Award)
Salil Lachke, Biological Sciences
Investigation of the Cataract-Associated RNA-Binding Protein Celf1-mediated Hspb8 Expression in Developing Mouse Lens

Campbell Toensing, Biological Sciences (CPW Bio)
Salil Lachke, Biological Sciences
TBD

Julie Sosa, Biological Sciences (McNair)
Gary Laverty, Biological Sciences
Structural Influences of Chemical Attractants on Chemosensing in Tetrahymena thermophila

Michelle Favichia, Biochemistry (INBRE)
Ramona Neunuebel, Biological Sciences
Determining the Effect of SidE Family Effector Proteins of Legionella pneumophila on Host Vesicular Trafficking

Semaj Kelly, Biological Sciences (INBRE)
Anja Nohe, Biological Sciences
TBD

Mahmoud Sabra, Biological Sciences (CPW Bio)
Anja Nohe, Biological Sciences
TBD

Ryan Wood, Biological Sciences (INBRE)
Anja Nohe, Biological Sciences
TBD
Kalekidan Abera, Biology (INBRE) (Towson University)
Justin Parreno & Velia Fowler, Biological Sciences
*Ocular Response to Lens Compression on Guinea Pigs and Rats*

Alice Wu, Biological Sciences (Nucleus)
Shawn Polson, Biological Sciences
*Enriching for Giant Viruses in Environmental Samples to Improve Metagenomic Virus Surveys*

Priyanka Bheemreddy, Biological Sciences (CPW Bio)
Karl Schmitz, Biological Sciences
*Expression, Purification, and Characterization of N-End Rule mEos3.2 Protein*

Jennifer Vorn, Medical Diagnostics (INBRE)
Karl Schmitz, Biological Sciences
*Purification and Biophysical Characterization of Unusual ClpS Proteolytic Adapters*

Nicholas Finelli, Biological Sciences (Governors Biotec Award)
Erica Selva, Biological Sciences
*In Culture Functional Analysis of Wls Oligomeric State*

Anthony Baker, Biology (EPSCoR) (Wesley College)
Kevin Shuman, Microbiology (Wesley College)
*Environmental and Physiological Characterization of Two Bacterial Isolates from the St. Jones River*

Kassandra Dieter, Biology (INBRE) (Wesley College)
Kevin Shuman, Microbiology (Wesley College)
*Effects of Artificial Sweeteners on the Growth of Bacteria*

Gloria Jimenez-Martinez, Biology (EPSCoR) (Wesley College)
Kevin Shuman, Microbiology (Wesley College)
*Environmental and Physiological Characterization of Two Isolated Strains of Comamonas terrigena*

Maryssa Roberts, Biology (INBRE) (Wesley College)
Kevin Shuman, Microbiology (Wesley College)
*Identification of Mutations in Two Strains of Serratia marcescens*

Jacob Duggan, Biological Sciences (CPW Bio)
Jia Song, Biological Sciences
*PKC Regulates Cell Motility and Skeletogenesis*

Charlotte Leslie, Biological Sciences (Nucleus)
Jessica Tanis, Biological Sciences
*Validation of Differentially Expressed Genes in Amyloid Beta-Expressing C. elegans Fed Different Diets*

Jaclyn Littmann, Biological Sciences (Stetson Award)
Jessica Tanis, Biological Sciences
*Investigation of CIL-7 and its Role in Extracellular Vesicle Release*
A Cytoplasmic Role for a Histone Methyltransferase in C. elegans Muscle Development

Pallavi Kulkarni, Neuroscience (S&E)
Shuo Wei, Biological Sciences
*The Role of ADAM9 in Colorectal Cancer*

Amanda Toreki, Biological Sciences (SF)
Eric Wommack, Biological Sciences
*Prophage Gene Expression in Soybean Root Nodules*

**Chemistry & Biochemistry**
Khadijah Bland, Biological Chemistry (INBRE) (Wesley College)
Malcolm D'Souza, Biological Chemistry (Wesley College)
*Multiplex Immunohistochemical Urine Cytology Based Analysis as a Screening Tool for Detecting Early Urothelial Malignancies*

Victoir Cahoon, Biological Chemistry (NASA DESGC/INBRE) (Wesley College)
Malcolm D'Souza, Biological Chemistry (Wesley College)
*Effect of Length of Carbon Chain on Reaction Rates of Chloroformate Esters*

Anas Mahmoud, Biological Chemistry (INBRE) (Wesley College)
Malcolm D'Souza, Biological Chemistry (Wesley College)
*Analysis of the Solvolytic Rates of Synthetically Useful Lauryl and Hexadecyl Chloroformates*

Ja'Ki Miles, Biological Chemistry (INBRE/EPSCoR) (Wesley College)
Malcolm D'Souza, Biological Chemistry (Wesley College)
*Wesley College STEM-Program Outreach and Service*

Omasan Uyebi, Biology (INBRE) (Wesley College)
Malcolm D'Souza, Biological Chemistry (Wesley College)
*Multiplex Immunohistochemical Urine Cytology Based Analysis as a Screening Tool for Detecting Early Urothelial Malignancies*

Madeline Tallman, Biomedical Engineering (NSF) (Tulane University)
Megan Killian, Biomedical Engineering
*Labral Microstructure: Dorsal vs. Ventral Morphology*

Genell Addison, Chemistry (EPSCoR) (DSU)
Kimberly Milligan, Chemistry (DSU)
*TBD*
Douglas Austin, Chemistry (EPSCoR) (DSU)
Kimberly Milligan, Chemistry (DSU)
TBD

Aysiah Stamper, Chemistry (EPSCoR) (DSU)
Kimberly Milligan, Chemistry (DSU)
TBD

Winnie Wong, Chemistry (Nucleus)
William Chain, Chemistry & Biochemistry
Efforts Towards a Total Synthesis of Calbistrin A

Jeffrey Cragin, Chemistry (Hofmann)
Joseph Fox, Chemistry & Biochemistry
Mechanistic Studies of Photocatalytic Bioorthogonal Chemistry

Jorden Berry, Biochemistry (Gore Chemistry Award)
Catherine Grimes, Chemistry & Biochemistry
Large Scale Preparation of Muramic Acid

Jevin Frazer-Wrobeh, Biochemistry (S&E)
Catherine Grimes, Chemistry & Biochemistry
Cyr1 LRR Purification and Characterization: Probing for Binding to Bacterial Cell Wall Fragments with Downstream Applications in Protein Crosslinking to MTP Benzophenone

Elise Garner, Biochemistry (Plastino)
Catherine Grimes, Chemistry & Biochemistry
Synthesis of Muramyl Tripeptide Derivatives from the Peptidoglycan of Borrelia burgdorferi for Microarray Analysis

Jared Ramsey, Biochemistry (Plastino)
Catherine Grimes, Chemistry & Biochemistry
Synthesis of 3,3 and 3,4 Crosslinked MDP Dimers

Pruthvi Banginwar, Engineering Physics (Unidel) (Cornell University)
Lars Gundlach, Chemistry & Biochemistry
Synthesis and Characterization of Gallium Oxide Nanowires

Savannah Talledo, Chemistry (NSF) (Wofford College)
Murray Johnston, Chemistry & Biochemistry
Molecular Composition of SOA via the Ozonolysis of Alpha-Pinene

Vennesa Valentine, Biochemistry (Unidel) (Alcorn State University)
Sharon Neal, Chemistry & Biochemistry
The Effect of Analyte Binding on the Detection of PAH Photosynthesized Oxygen in Biorelevant Solvents
Sara Goldstein, Biotechnology (INBRE) (DTCC)
Juan Perilla, Chemistry & Biochemistry
*Insights on the Molecular Mechanisms During the Life Cycle of HIV*

Christian Lantz, Biochemistry (NSF) (Lebanon Valley College)
Juan Perilla, Chemistry & Biochemistry
*HIV-1 Image Recognition Using a Neural Network*

Tanya Nesterova, Chemistry (Heitzer Award)
Juan Perilla, Chemistry & Biochemistry
*Parallelized Modeling of Incomplete HIV Capsid Through Computational Geometric Methods*

Ashrith Keshireddy, Charter School of Wilmington
Tatyana Polenova, Chemistry & Biochemistry
*Assessing Computational Procedures for Protein Structure Determination by Magic Angle Spinning NMR Spectroscopy*

Molly Warndorf, Chemistry (Plastino)
Joel Rosenthal, Chemistry & Biochemistry
*Synthesis of Palladium Tetrapyrrole Macrocycles Through Cross-coupling Reactions for Use in Photodynamic Light Therapy*

Juliana Serrano, Biochemistry (S&E)
Sharon Rozovsky, Chemistry & Biochemistry
*Developing a Method for the Co-Expression of Multiple Proteins in Pichia pastoris*

Olivia Shaw, Biochemistry (NSF)
Sharon Rozovsky, Chemistry & Biochemistry
*Characterizing the Effects of Point Mutations on GB1 Structure and Stability by All-Atom Molecular Dynamics Simulation*

Kelsi Walker, Quantitative Biology (McNair)
Sharon Rozovsky, Chemistry & Biochemistry
*Mapping the Dimer Interface in a Key Regulator of Protein Quality Control*

Dominick Guida, Chemical Engineering (Plastino)
Klaus Theopold, Chemistry & Biochemistry
*Tuning the Optical Properties of Two-Dimensional Lead Halide Perovskites*

Jackson Burns, Chemical Engineering (Stakem Award)
Donald Watson, Chemistry & Biochemistry
*Applying Computer Science to the Development of Chemical Reactions: Applications in Heck-Type Cross-Coupling Reactions*

Mitchell Daneker, Chemistry (Bigelow Award)
Mary Watson, Chemistry & Biochemistry
*Reenvisioning Amines to Open New Doors to Pharmaceuticals*
Kudakwashe Murinda, Biochemistry (Unidel) (Alcorn State University)
Donald Watson, Chemistry & Biochemistry
*Ruthenium Catalyzed Synthesis of Chiral Amines from Asymmetric Hydrogenation of Nitroalkanes*

Stephanie Tsang, Chemistry (Unidel) (Grinnell College)
Mary Watson, Chemistry & Biochemistry
*Repurposing Amino Acids: Using Lysine in Organic Synthesis*

Jean Filo, Biological Sciences (Plastino)
Zhihao Zhuang, Chemistry & Biochemistry
*Probing the Role of Ubiquitin in the Regulation of Gene Expression*

Cole Lazarus, Biochemistry (Plastino)
Zhihao Zhuang, Chemistry & Biochemistry
*Assembly of Multi-Protein Probes Using Semisynthetic Approaches*

Ryann Perez, Chemistry (Harrison Chemistry Award)
Neal Zondlo, Chemistry & Biochemistry
*TBD*

Siyuan Xiang, Chemistry (Plastino)
Neal Zondlo, Chemistry & Biochemistry
*TBD*

Juliana Follmar, Biochemistry (Nucleus)
Catherine Grimes, Chemistry & Biochemistry
*Metabolic Labeling of Bacterial Cell Walls Using Fluorine-Containing N-Acetyl-Muramic Acid (NAM) Derivatives for Mapping Molecules in the Microbiome-Brain Connection*

**Poster Session III**

12:00-1:30


**Agriculture & Natural Resources**

Natalie Wong, Wildlife Conservation (SF)
Keith Hopper, Agriculture & Natural Resources
*Reproductive Compatibility of Male and Female Phellinus rhamni Cured of Wolbachia*

Kishaun Bethea, Biological Sciences (EPSCoR) (DSU)
Venugopal Kalavacharla, Agriculture & Natural Resources (DSU)
*TBD*
Daniela Rivera, Pre-Veterinarian (EPSCoR) (DSU)  
Venugopal Kalavacharla, Agriculture & Natural Resources (DSU)  
TBD

Fedrica Williams, Nursing (EPSCoR) (DSU)  
Venugopal Kalavacharla, Agriculture & Natural Resources (DSU)  
*Epigenomic and Transcriptomic Study of Marshgrass (Spartina alterniflora) to Better Understand its Salt Tolerance Ability: Project Overview*

Raymond Andrews, Natural Resources (EPSCoR) (DSU)  
Gulnihal Ozbay, Agriculture & Natural Resources (DSU)  
TBD

Mirey Kurkcucoglu, Pre-Veterinarian (EPSCoR) (DSU)  
Gulnihal Ozbay, Agriculture & Natural Resources (DSU)  
TBD

Colton Williamson, Biology (EPSCoR) (Salisbury University)  
Gulnihal Ozbay, Agriculture & Natural Resources (DSU)  
TBD

**Animal & Food Sciences**

Connor Pitman, Biological Sciences (S&E)  
Behnam Abasht, Animal & Food Sciences  
*The Evidence and Role of Dosage Compensation in Red Junglefowl*

Brianna Ames, Animal & Food Sciences (Envision Scholar)  
Robert Alphin, Animal & Food Sciences  
*Evaluation of Newcastle Disease Virus Reduction in Open Source Affordable and Portable Vehicle Undercarriage Decontamination System with Foam Applied Disinfectants*

Emma Redman, Animal & Food Sciences (Envision Scholar)  
Eric Benson, Animal & Food Sciences  
*Evaluation of Foam Applied Disinfectants Used to Increase the Efficiency of an Open Source Affordable and Portable Vehicle Undercarriage Decontamination System*

Kara Anderson, Animal & Food Sciences (Envision Scholar)  
Amy Biddle, Animal & Food Sciences  
*Equine Microbiome Project: Outreach Design for Making Science Accessible to Clients and the Community*

Brian Arisman, Agricultural & Medical Biotechnology (Unidel) (University of Kentucky)  
Amy Biddle, Animal & Food Sciences  
*Quantifying the Shorten Reemergence Period of Cyathostomin Populations in Horses Following Anthelmintic Treatment*
Jordan Cogswell, PVAB (S&E)
Amy Biddle, Animal & Food Sciences
*Optimizing a Method for the Processing of Colonocytes from Equine Fecal Samples as a Noninvasive Host Sampling Method*

Amy Demeter, Animal & Food Sciences (CANR Summer Institute)
Amy Biddle, Animal & Food Sciences
*Optimizing a Method for Processing Colonocytes from Equine Fecal Samples as a Noninvasive Host Sampling Method*

Ariel Strouse, Agriculture & Natural Resources (SF)
Amy Biddle, Animal & Food Sciences
*Management and Nutritional Factors Associated with Body Condition in Horses*

Lillian Goldman-Muller, Animal & Food Sciences (Envision Scholar)
Aditya Dutta, Animal & Food Sciences
*Metabolic Role of Homeodomain-Containing Transcription Factors in Reproductive Organs*

Ayo Agbaje, Animal & Food Sciences (Envision Scholar) (DSU)
Tanya Gressley, Animal & Food Sciences
*TBD*

Carly Flink, PVAB (S&E)
Tanya Gressley, Animal & Food Sciences
*TBD*

Joshua Taylor, Animal & Food Sciences (S&E)
Rolf Joerger, Animal & Food Sciences
*Enzyme Based Hydrolysis of Mollusk Processing Waste*

Marlena Cugliari, PVAB (S&E)
Calvin Keeler, Animal & Food Sciences
*Broiler Chicken Responses to Infectious Laryngotracheitis Virus*

Carlos Blanco, Animal & Food Sciences (Envision Scholar) (DSU)
Kali Kniel, Animal & Food Sciences
*TBD*

Paige Brooks, Animal & Food Sciences (Envision Scholar) (Lincoln University)
Brian Ladman, Animal & Food Sciences
*TBD*

Tara Brookins, Animal & Food Sciences (Envision Scholar) (Lincoln University)
Hong Li, Animal & Food Sciences
*Assessment of Thermal Comfort of Broilers During Transportation*
Aliyah Parsons, PVAB (Allen Scholar)
Hong Li, Animal & Food Sciences
Evaluating Ammonia Levels with Litter Amendments: Aluminum Sulfate and PLT

Jordyn Stevens, Animal & Food Sciences (Envision Scholar)
Yihang Li, Animal & Food Sciences
Intestinal Epithelial Cell Lineage Allocation in Response of Nutrition and Productional Stress in Growing Chickens

Erin Gollhardt, Health Science (Allen Scholar)
Mark Parcells, Animal & Food Sciences
Analysis of the Effects of Exosomes from Chicken Serum on Macrophage Signaling

Brittany O’Connell, Animal & Food Sciences (Envision Scholar) (UMES)
Mark Parcells, Animal & Food Sciences
Interaction of Marek’s Disease Virus (MDV) with Innate Immune Sensors and Signaling

Kristen Wooten, Animal & Food Sciences (Envision Scholar) (UMES)
Mark Parcells, Animal & Food Sciences
Analysis of Metabolic Manipulation by Marek’s Disease Virus (MDV)

Justine Tarsillo, PVAB (Murphy Scholar)
Carl Schmidt, Animal & Food Sciences
TBD

Julia Kesselring, Food Science (Willis Scholar)
Changqing Wu, Animal & Food Sciences
The Antimicrobial Activities of Potato Peel Waste

Entomology & Wildlife Ecology
Paige Cummins, Insect Ecology & Conservation/Agriculture & Natural Resources (Allen Scholar)
Charles Bartlett, Entomology & Wildlife Ecology
Variation and Diagnostics of Anotia Planthoppers (Hemiptera: Derbidae)

Mia Montgomery, Wildlife Conservation & Ecology/Agriculture & Natural Resources (Allen Scholar)
Jeffery Buler, Entomology & Wildlife Ecology
Modeling Recent Trends in Pinniped Movement Across the Mid-Atlantic and New England Regions of the United States

David Brown, Entomology & Wildlife Ecology (Envision Scholar) (Lincoln Universtiy)
Deborah Delaney, Entomology & Wildlife Ecology
What is the Bees Diversity at Longwood Gardens?

Ben Sammarco, Insect Ecology & Conservation (S&E)
Deborah Delaney, Entomology & Wildlife Ecology
Effects of Simulated Honey Bee Hyperpolyandry on Colony Health
Gabriella Castillo, Entomology & Wildlife Ecology (Envision Scholar)
Ivan Hiltpold, Entomology & Wildlife Ecology
*Automated Flight Mills: Putting a Spin on Insect Flight*

Samantha McGonigle, Wildlife Ecology & Conservation (Allen Scholar)
Kyle McCarthy, Entomology & Wildlife Ecology
*Assessing Attitudes and Perceptions of Human-Small Cat Conflict in the Mamoni Valley of Panama*

Patrick Carney, Entomology & Wildlife Ecology (CANR Summer Institute)
Douglas Tallamy, Entomology & Wildlife Ecology
*Quantifying the Impact of Reforestation Strategies on Biodiversity*

Garrison Piel, Insect Ecology & Conservation (S&E)
Doug Tallamy, Entomology & Wildlife Ecology
*Birds Forage Where the Food Is*

Jared Ryan, Wildlife Ecology & Conservation (Willis Scholar)
Christopher Williams, Entomology & Wildlife Ecology
*The Effect of Predator Guards and Box Age on Wood Duck Nest Box Use and Success*

**Environmental Science**

Gyllian O’Neill, Business Administration (Sea Grant) (Wesley College)
Matthew Grabowski, Division of Water (DNREC)
*TBD*

Sarah Fryer, Business Administration (Sea Grant) (Wesley College)
Jessica Quinn, Division of Climate, Coastal & Energy (DNREC)
*TBD*

Sydney Hall, Environmental Science (EPSCoR) (Wesley College)
Stephanie Stotts, Environmental Science (Wesley College)
*Wastewater Treatment and Microplastics: Murderkill River Compared to the St. Jones River*

Teric Henry, Environmental Science (EPSCoR) (Wesley College)
Stephanie Stotts, Environmental Science (Wesley College)
*TBD*

Joseph Howard, Environmental Science (EPSCoR) (Wesley College)
Stephanie Stotts, Environmental Science (Wesley College)
*TBD*

Savanah Love, Environmental Science (EPSCoR) (Wesley College)
Stephanie Stotts, Environmental Science (Wesley College)
*Investigating Eastern Red Cedars Killed by Salt at the St. Jones National Estuarine Research Reserve in Dover, De*
Thomas Suarez, Business Administration (Sea Grant) (Wesley College)
Erin Wilson, Division of Climate, Coastal & Energy (DNREC)
*TBD

**Cooperative Extension**
Shannon Murray, Mathematics Education (Cooperative Extension/Janice Seitz Scholar)
Betsy Morris, Cooperative Extension
*4-H Day Camp*

Davis Baylor, Entrepreneurship & Technology Innovation (Cooperative Extension/Chick Allen Scholar)
Mike Popovich, Plant & Soil Sciences
*Hop Feasibility in Delaware*

Kathryn Russel, Human Nutrition (Cooperative Extension/Chick Allen Scholar)
Kathleen Splane, Cooperative Extension
*Vegetable Intake of Children Participating in Hands-On Nutrition Education*

**Applied Economics & Statistics**
Katherine McCarroll, Environmental Science (EPSCoR)
Kelly Davidson, Applied Economics & Statistics
*The Influence of Social Dynamics on Oyster Consumption*

Zizhuo Xu, Applied Economics & Statistics (Allen Scholar)
Shanshan Ding, Applied Economics & Statistics
*Machine Learning Methods for Water Security and Human Behavioral Response Studies*

Nathan Castaneda, Energy Management (EPSCoR) (DTCC)
Kent Messer, Applied Economics & Statistics
*Enhancing Farmers’ Adoption of Decision Support Tools to Improve Irrigation Management in Delaware*

Katina Thongvong, Computer Science (EPSCoR) (DTCC)
Kent Messer, Applied Economics & Statistics
*Testing and Deploying a Mobile Field Experiment*

Rachel King, Environmental & Natural Resource Economics (EPSCoR)
Leah Palm-Foster, Applied Economics & Statistics
*Manure Happens! Distribution of Delmarva’s Poultry Litter*

Liam Vita, Environmental & Natural Resource Economics/Natural Resource Management (EPSCoR)
Leah Palm-Foster, Applied Economics & Statistics
*Motorists’ Behavioral Responses to Data Visualization During Flood Events: Evidence from a Framed Field Experiment*
**Plant & Soil Sciences**
Cierra McNeil, Mechanical Engineering (EPSCoR)
Jules Bruck, Plant & Soil Sciences; Julia Maresca & Paul Imhoff, Civil & Environmental Engineering
*TBD*

Matthew Rigor, Biomedical Engineering (INBRE)
Jeff Caplan, Plant & Soil Sciences
*TBD*

Thomas Moran, Plant Science (CENFOODS)
Nicole Donofrio, Plant & Soil Sciences
*The Effects of Red Light on Sporulation of Lima Bean Pathogens*

Kona Haramoto, Environmental Science (CENFOODS)
Jeff Fuhrmann, Plant & Soil Sciences
*Sustainable Enhancement of Soybean Productivity - Using Lytic Viruses to Promote Root Nodule Occupancy by Superior Bradyrhizobia*

Anna DiBattista, Biological Sciences (Nucleus)
Pamela Green, Plant & Soil Sciences
*Generation of Mutants to Study the Role of Endoribonucleases in Plants*

Justine Berina, Geology (CANR Summer Institute) (The College of Wooster)
Shreeram Inamdar, Plant & Soil Sciences
*Mapping Historical Milldams and Legacy Sediment Accumulation in Streams: A Spatial Analysis*

Nickolas Insley, Plant & Soil Sciences (SF)
Jung-Youn Lee, Plant & Soil Sciences
*TBD*

Kirstie Niessen, Plant Science (SF)
Jung-Youn Lee, Plant & Soil Sciences
*TBD*

Sheridan Bryan, Biological Sciences (S&E)
Angelia Seyfferth, Plant & Soil Sciences
*The Expression of Genes Related to Stress Response, Metal Toxicity, and as Toxicity in Rice*

Florence Fields, Biology (CANR Summer Institute) (Saint Augustine's University)
Angelia Seyfferth, Plant & Soil Sciences
*Impacts of Si on Chlorophyll Content of Rice Tissues*

Kendall McCoach, Plant & Soil Sciences/Geology (Allen Scholar)
Angelia Seyfferth, Plant & Soil Sciences
*Impacts of Pyrolysis Temperature on Si Release from Rice Husk Biochar Incorporated into Paddy Soil*
Monica Elavarthi, Chemical & Biomolecular Engineering (EPSCoR)
Donald Sparks, Plant & Soil Sciences
*Legacy Phosphorus Desorption and uXANES Speciation from US Mid-Atlantic Agricultural Soils*

Anna Evers, Chemistry (S&E)
Donald Sparks, Plant & Soil Sciences
*Effect of Silicate During Green Rust Carbonate Coprecipitation on Chromium (VI) Reduction Efficiency and Secondary Minerals*

Jenna Simons, Environmental Studies (CENFOODS)
Anna Wik, Plant & Soil Sciences
*UD Early Learning Center Outdoor Learning Environment Design Development*

Ra'Shantai Miller, Biology (CNR Summer Institute) (Saint Augustine's University)
Randy Wisser, Plant & Soil Sciences
*Morphological, Developmental and Physiological Features Associated with Short-Term Evolution of Flowering Time Adaptation in Maize*

Thanvi Dola, (VEIL Lab) (The Charter School of Wilmington)
Eric Wommack, Plant & Soil Sciences
*Viral Enrichment and Detection Methods for Enhancing the Giant Virus Survey*

Joshua Simpson, Biological Sciences/Chemistry (Unidel) (DTCC)
Eric Wommack, Plant & Soil Sciences
*Phenotypic Consequences of Mutating DNA Polymerase A Residue 762 in T7 Bacteriophage*

**Marine Studies**
Sydney Messick, Marine Science (S&E)
Jennifer Biddle, Marine Studies
*Searching for Lokiarchaeota Within Delaware Marshes*

Nicole Steplewski, Environmental Science (S&E)
Aaron Carlisle, Marine Studies
*TBD*

Rachel Roday, Marine Biology (S&E)
Jonathan Cohen, Marine Studies
*TBD*

Gretchen Johnson, Marine Biology (S&E)
Kathryn Coyne, Marine Studies
*La Vie en Rose: Optimization of a Colorimetric Nitrate Reductase Assay for the Harmful Alga Chattonella subsalsa*
Geological Sciences
Raphael Affinito, Geological Sciences (SF)
Jessica Warren, Geological Sciences
TBD

Geography
Jessica Clark, Environmental Science (CENFOODS)
Pinki Mondal, Geography
*When Producers are Consumers: Dietary Diversity and Food Insecurity Among Indian Smallholder Farmers*

Education
Alexandria Raiche, Elementary Teacher Education (SF)
Joshua Wilson, School of Education
*Automated Writing Evaluation is an AWEsome Tool to Predict Students' State Test Scores*

Human Development & Family Studies
Nicole Kennedy, Public Policy (Hofmann)
Allison Karpyn, Human Development & Family Studies
*What are the Impacts of Wilmington’s Policy Regarding the Beverages Offered with Children’s Meals?*

Music
Sarah Wojcik, Music Education (SF)
Duane Cottrell, Music
*Potential Benefits of Natural Movement in the Choral Rehearsal: The Why and How of Implementation*

Jamie Wechsler, Music (SF)
Aimee Pearsall, Music
*The Reasons for High School Students’ Non-Participation in Choral Programs*

History
Troiana Hicks, English (Unidel) (DSU)
Rebecca Davis, History
*Woman of the Hour: Alice Dunbar-Nelson and the Black Suffrage Movement*

Dalia Handelman, Health Behavior Science (PAC Scholar)
Roger Horowitz, History/Jewish Studies
*Oral History Collaboration with the Jewish Historical Society of Delaware*

Public Policy
Madison Matera, Public Policy (AHSS)
Leann Moore, Biden School of Public Policy & Administration/IPA
*Racial Disparities Within School Discipline, and The School-to-Prison Pipeline in Delaware*
Communication
Jenna Landesman, Communication (CEI Summer Fellow)
Nancy Karibjanian, Center for Political Communication
Blue Hen Social Media Summer Fellowship

Kevin Johnson, Communication (SF)
Dannagal Young, Communication
Media in the Motherland: A Qualitative Study of Modern Russian Media Use and Public Opinion

Russian
Kevin Brown, International Relations (SF)
Victoria Finney, Russian
Public Political Opinion Survey Between Russian and American Citizens

Poster Session IV 1:45-3:15
(Engineering: Biomedical, Chemical & Biomolecular, Civil & Environmental, Mechanical)

Biomedical Engineering
Jefferson Steltz, Biomedical Engineering (S&E)
Elise Corbin, Biomedical Engineering
Changing Roughness of Varying Viscous Substrates

Carolina Gomez, Biomedical Engineering (S&E)
Emily Day, Biomedical Engineering
Photoreactive miR-34a Nanoshells for Triple Negative Breast Cancer

James Mullin, Chemical Engineering (Unidel) (UVA)
Emily Day, Biomedical Engineering
Intracellular Delivery of miR-34a and ABT-737 via PLGA Nanoparticles to Treat Triple Negative Breast Cancer

Emily Powsner, Biomedical Engineering (S&E)
Emily Day, Biomedical Engineering
Biomimetic Membrane-Wrapped Nanoparticles for Targeted Delivery of Sirna to CHRF Cells

Violet Ullman, Biomedical Engineering (S&E)
Emily Day, Biomedical Engineering
Enabling Triple-Negative Breast Cancer Treatment Through Nanoparticle-Mediated miR-34a and Doxorubicin Delivery

Emily Eichenlaub, Biomedical Engineering (INBRE)
Dawn Elliott & Megan Killian, Biomedical Engineering
Modeling the Mechanical Changes in Tendinopathy Using Chemical Digestion
Isabel Carulli, Biomedical Engineering (McNair)
Jason Gleghorn, Biomedical Engineering
Pattern Formation Based on Morphogen Gradients in a Bacterial Sender-Receiver Network

Nicolette Chahalis, Biomedical Engineering (S&E)
Jason Gleghorn, Biomedical Engineering
Quantifying Gene Expression in the Embryonic Lung Airway Using Fluorescent in situ Hybridization

Brea Chernokal, Biomedical Engineering (S&E)
Jason Gleghorn, Biomedical Engineering
Directed Self-Assembly of Vascular Networks in a 3D Collagen Gel

Brianna Dagostino, Mechanical Engineering (CBER NSF REU) (UTEP)
Jason Gleghorn, Biomedical Engineering
3D Spatial Photopatterning in Extracellular Matrix Mimicking Hydrogel

Sarah Geissler, Biomedical Engineering (S&E)
Jason Gleghorn, Biomedical Engineering
Incorporation of Tailorable Extracellular Matrices into Microfluidic Microphysiological Systems

Sienna Pyle, Biomedical Engineering (McNair)
Jason Gleghorn, Biomedical Engineering
TBD

Diana Renteria, Biological Engineering (Unidel) (MIT)
Jason Gleghorn, Biomedical Engineering
Directed Self-Assembly of Tissues Using Hydrogel Interfaces

McKenna Grega, Biochemistry (Unidel) (Mansfield University)
Curtis Johnson, Biomedical Engineering
Determining Mechanical Properties in Viscoelastic Phantoms by MR Elastography

Ariel Hannum, Biomedical Engineering (Delaware Rehabilitation Institute)
Curtis Johnson, Biomedical Engineering
Sources of Signal Noise in Magnetic Resonance Elastography

Shaneaka Anderson, Biology (Unidel) (Edward Waters College)
Megan Killian, Biomedical Engineering
Observing Gene Expression in Tendon-Bone Attachment of Normal and Fgf9 Mutant

Joseph Korn, Biomedical Engineering (SF)
Megan Killian, Biomedical Engineering
Percentage of Actively Transcribing Scx+ Cells in Tendon Compared to in Vital Organs

Julianna Wayne, Biomedical Engineering (S&E)
Megan Killian, Biomedical Engineering
Strain Rate-Dependent Damage Detected by Fluorescent Collagen Mimetic Peptides Following Achilles Tendon Rupture
Rachel Klink, Engineering (CBER NSF REU) (Taylor University)
Mechanics of Small and Large Partial-Width Defects of the Rat Rotator Cuff Tendon-to-Bone Attachment

Neil Godbole, Biomedical Engineering (SF)
Christopher Price, Biomedical Engineering
Intra-Articular Drug Delivery Using Elastin-Like Protein and Collagen-Like Protein Nanoparticles

Ahmed Gure, Biomedical Engineering (CBER NSF REU) (UT-Arlington)
Christopher Price, Biomedical Engineering
Species-Specific Assessment of Tribological Rehydration

Maria Lilley, Biomedical Engineering (Delaware Rehabilitation Institute)
Fabrizio Sergi, Biomedical Engineering
Belt Velocity or Acceleration? Identification of Key Parameters in Training Propulsion During Walking

Jordan Rampolla, Biomedical Engineering (S&E)
Fabrizio Sergi, Biomedical Engineering
Characterization of Adaptation to Lateral Force Fields During Wrist Movement

Jacob Weinman, Biomedical Engineering (INBRE)
Fabrizio Sergi, Biomedical Engineering
Effect of Task Instructions on the Amplitude of Long Latency Responses in Wrist Flexors and Extensors

Emily Davis, Biomedical Engineering (S&E) & Rachael Passantino, Biomedical Engineering (INBRE)
John Slater, Biomedical Engineering
Microvessel-On-A-Chip for Modeling & Studying Blood Vessels In Vitro

Julia Janeczko, Biology (Unidel) (UT-Austin)
John Slater, Biomedical Engineering
Investigating Hydrogel Elasticity Effects on Focal Adhesion Kinase Phosphorylation

Bryan Jimenez, Biotechnology (CBER NSF REU) (UAGM) & Helen Wilson, Biomedical Engineering (SF)
John Slater, Biomedical Engineering
Understanding the Influence of Extracellular Vesicles (EV’s) on Cancer Cells Dormancy

Chemical & Biomolecular Engineering
Eric Wolfsberg, Chemical Engineering (S&E)
Maciek Antoniewicz, Chemical & Biomolecular Engineering
Elucidating Metabolism Of E. coli Double-Knockout Strains

Alex Attard, Chemical Engineering (NECA)
Douglas Buttrey, Chemical & Biomolecular Engineering
Exploring Synthetic Conditions for Slurry Preparation of Complex Molybdenum Vanadium Bronzes
Xijing Gong, Chemical Engineering (S&E)
Douglas Buttrey, Chemical & Biomolecular Engineering
*Synthesis of Novel Tungsten-Molybdenum-Vanadium Pentagonal Ring Oxide Bronzes*

Meghana Inabathini, Chemical Engineering
Douglas Buttrey, Chemical & Biomolecular Engineering
*Preparation Novel Niobium-Molybdenum-Vanadium Pentagonal Ring Oxide Bronzes*

Joshua Watson, Chemical Engineering (NSF-REU INTERFACING SUSTAINABLE ENERGY & MATERIALS)
Thomas Epps, Chemical & Biomolecular Engineering
*Introducing Additives to Lithium Triflate-Doped Poly (Ethylene Oxide) to Modulate Lithium-Ion Transport*

Lucas Attia, Chemical Engineering (S&E)
Catherine Fromen, Chemical & Biomolecular Engineering
*Fluid and Aerodynamic Properties of UiO-66 Nanoparticles with Varying Defectiveness and Cargo-Loading*

Ellie Papoutsakis, Biomedical Engineering (S&E)
Cathy Fromen, Chemical & Biomolecular Engineering
*Incorporation of Epithelial Cell Monolayers onto 3D Printed Materials to Accurately Mimic Respiratory Environment*

Emma Peterman, Chemical Engineering (S&E)
Catherine Fromen, Chemical & Biomolecular Engineering
*Lobe-Specific Deposition of Inhaled Nanoparticles in an Intubated Lung Model*

Nisha Raman, Chemical Engineering (McNair)
Catherine Fromen, Chemical & Biomolecular Engineering
*Modulation of Adjuvant Loading and Degradation Profiles from Biocompatible Polymeric Nanoparticles for Immune Stimulation*

Shane Brown, Physics (Delaware Energy Institute)
M. Zubaer Hossain, Chemical & Biomolecular Engineering
*Electronic Confinement in MoS₂ Graphene Quantum Dots*

Chandler Amato, Chemical Engineering (S&E)
Arthi Jayaraman, Chemical & Biomolecular Engineering
*Molecular Dynamics Simulations of Silica Nanorods with Different Aspect Ratios in Spherical Confinement*

Wilson Chen, Chemical Engineering (Delaware Energy Institute)
Feng Jiao, Chemical & Biomolecular Engineering
*Screening of Multimetallic Oxide Electrocatalysts for Oxygen Evolution*

Alpha Gassama, Chemical Engineering (NSF-REU Sustainable Materials, IDeA NIH, NIGMS, COBRE Biomat/Drug Disc,Pew Scholars) (UMCP)
April Kloxin, Chemical & Biomolecular Engineering
*Innovative Techniques for Probing and Modulating the Mechanical Properties of Hydrogels*
Kathryn Christensen, Chemical Engineering (S&E)
Christopher Kloxin, Chemical & Biomolecular Engineering
*Design of Peptide Bundle Macro-Initiators for Atom Transfer Radical Polymerization (ATRP) Reactions*

Ryan Buchser, Chemical Engineering (S&E)
Aditya Kunjapur, Chemical & Biomolecular Engineering
*Application of a Bacterial Adenylate Cyclase Two-Hybrid System for the Characterization of N-Degron/N-Recognin Binding*

Natalie Fuhr, Chemical Engineering (S&E)
Aditya Kunjapur, Chemical & Biomolecular Engineering
*Biosensor Optimization for the Detection of Aldehydes*

Minwei Lin, Chemical Engineering (S&E)
Aditya Kunjapur, Chemical & Biomolecular Engineering
*Biosynthesis and Ribosomal Incorporation of 4-Nitro-L-Phenylaniline*

Sydney Clasen, Chemical Engineering (NSF)
Kelvin Lee, Chemical & Biomolecular Engineering
*Monitoring the Effects of Transgenic DNA-Repair Genes on the Production Stability of High-Producing CHO Cell Lines*

Kerri Mendola, Chemical Engineering (S&E)
Abraham Lenhoff, Chemical & Biomolecular Engineering
*Expressing Hitchhiking Protein Impurities to Study Their Interactions with Therapeutic Monoclonal Antibodies*

Schuyler Reed, Chemical Engineering (S&E)
Abraham Lenhoff, Chemical & Biomolecular Engineering
*Neural Network Correlation of Protein Retention in Chromatographic Separations*

Metehan Cebeci, Biological Sciences (DOE-Catalysis Center for Energy Innovation)
Raul Lobo, Chemical & Biomolecular Engineering
*Investigating Scandium Triflate for Acetylatng Phenols*

Michael Dillon, Chemical Engineering (Nucleus)
Eleftherios Papoutsakis, Chemical & Biomolecular Engineering
*Engineering Escherichia coli for Methanol-Dependent Growth and Production*

Logan Kim, Chemical Engineering (S&E)
Eleftherios Papoutsakis, Chemical & Biomolecular Engineering
*Protein Engineering of a Methanol Dehydrogenase*

Ioannis Zerefos, Biological Sciences (S&E)
Eleftherios Papoutsakis, Chemical & Biomolecular Engineering
*Improving Methanol Tolerance of Escherichia coli Improves Methanol Utilization*
Tohn Borjigin, Chemical Engineering (S&E)
Millicent Sullivan, Chemical & Biomolecular Engineering
Activation of M1, M2a Macrophages for PEI-Polyplex Gene Delivery

Qirun Li, Chemical Engineering (S&E)
Millicent Sullivan, Chemical & Biomolecular Engineering
Histone Mimetic Peptide Mediated Delivery of Suicide Enzyme for Breast Cancer Treatment

Marc Bolinas, Computer Science (DOE-Catalysis Center for Energy Innovation)
Dion Vlachos, Chemical & Biomolecular Engineering
TBD

Keira Culley, Chemistry (NSF-REU Interfacing Sustainable Energy & Materials) (George Washington University)
Dion Vlachos, Chemical & Biomolecular Engineering
Combining Thermodynamic Modeling and Reaction Kinetics to Understand the Effect of Metal Salts in Biomass Upgrading

Andrew Danielson, Chemical Engineering (DOE-Catalysis Center for Energy Innovation)
Dion Vlachos, Chemical & Biomolecular Engineering
Catalytic Synthesis of High Performance Lubricant Base Oils with Biomass Derived Platform Molecules

Jake Kalscheur, Chemical Engineering (DOE-Catalysis Center for Energy Innovation)
Dion Vlachos, Chemical & Biomolecular Engineering
Kinetic Monte Carlo Simulations of Supported Pd Single Atom Diffusion and Nanocluster Formation on Ceria

Alexander Kuczykowski, Chemical Engineering (DOE-Catalysis Center for Energy Innovation)
Dion Vlachos, Chemical & Biomolecular Engineering
TBD

Matthew Marino, Chemical Engineering (Delaware Energy Institute/RAPID)
Dion Vlachos, Chemical & Biomolecular Engineering
Study of Solid-Liquid-Liquid Slurry Flow in Micro/Milli-Reactors for Heterogeneous Catalyst Integration for Biomass Conversion

Jai Pakhale, Chemical Engineering (DOE-Catalysis Center for Energy Innovation)
Dion Vlachos, Chemical & Biomolecular Engineering
TBD

Daniel Robinson, Chemical Engineering (DOE-Catalysis Center for Energy Innovation)
Dion Vlachos, Chemical & Biomolecular Engineering
TBD

Nicholas Samulewicz, Chemical Engineering (DOE-Catalysis Center for Energy Innovation)
Dion Vlachos, Chemical & Biomolecular Engineering
Optimizing Nitrogen-Doped Carbon Catalyst Production from Food Waste Through Machine Learning
Jackson Schade, Chemical Engineering (DOE-Catalysis Center for Energy Innovation)
Dion Vlachos, Chemical & Biomolecular Engineering

*Electrochemical Oxidation of HMF to FDCA*

Christopher Tiso, Chemical Engineering (DOE-Catalysis Center for Energy Innovation)
Dion Vlachos, Chemical & Biomolecular Engineering

*Electric Field Effects on the Stability of Single Atom Catalysis: A Case Study of Pd/TiO₂*

Sai Mahit Vaddadi, Chemical Engineering (S&E)
Dion Vlachos, Chemical & Biomolecular Engineering

*Atomistic and Spectroscopic Modeling of Nanoparticles Using Genetic Algorithm*

Tianyi Bai, Chemical Engineering (The Chemours Company)
Norm Wagner, Chemical & Biomolecular Engineering

*Controlling Microscope Friction and Macroscope Flow Properties of Model Silica System*

Jacob Hewes, Chemical Engineering (NASA EPSCOR MARS)
Norman Wagner, Chemical & Biomolecular Engineering

*Investigate Potential of Lunar and Martian Regolith Based Geopolymer Cement*

Rong Song, Particle Technology (The Chemours Company)
Norm Wagner, Chemical & Biomolecular Engineering

*Investigating Particle Network Adhesion via Macrorheology*

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**Civil & Environmental Engineering**

Aidan Meese, Environmental Engineering (S&E)
Daniel Cha, Civil & Environmental Engineering

*TBD*

Robyn O'Halloran, Environmental Engineering (S&E)
Yu-Ping Chin, Civil & Environmental Engineering

*Attenuation of Tylosin by Iron Oxides*

Alexia Stock, Civil Engineering (CEECF)
Rachel Davidson, Civil & Environmental Engineering

*Influence of Prior Experience on Homeowner Retrofit Decision-Making*

Katelyn Anderson, Environmental Engineering (CEECF)
Dominic DiToro, Civil & Environmental Engineering

*Predicting the Rates of Reduction for Nitroaromatic Compounds*

James Holyoke, Civil Engineering (CEECF)
Tianjian Hsu, Civil & Environmental Engineering

*Laboratory Investigation of Oil-Mineral Aggregation in Salt Water*
Eric Noe, Environmental Engineering (S&E)
Paul Imhoff, Civil & Environmental Engineering
*Predicting the Effect of Biochar on the Saturated Hydraulic Conductivity of Roadway Soils*

Reid Williams, Environmental Engineering (CEECF)
Paul Imhoff, Civil & Environmental Engineering
*The Effect of Biochar Addition on Soil Aggregation and Infiltration Rate*

Jordan Heydt, Marine Science (S&E)
Julie Maresca, Civil & Environmental Engineering
*TBD*

Hannah Tompkins, Applied Physics (Unidel) (Whitworth University)
Julie Maresca, Civil & Environmental Engineering
*Concrete Biorepair: Ability of Bacteria Isolated from Concrete to Induce Carbonate Precipitation*

**Mechanical Engineering**
Patrick Bredbenner, Mechanical Engineering (SF)
Suresh Advani, Mechanical Engineering
*Tension Testing of Fibers*

Tristan Hoppe, Computer Science (Delaware Rehabilitation Institute) (Wheaton College)
Thomas Buchanan, Mechanical Engineering
*Development of Hexahedral Meshes of Knee Cartilage for Finite Element Modeling*

Christopher Evans, Mechanical Engineering (SF)
David Burris, Mechanical Engineering
*Cantilever Calibration for Frictional Measurements*

Taylor Kenda, Mechanical Engineering (CBER NSF REU) (Tarrant County College)
David Burris, Mechanical Engineering
*Materials Tribology*

Alexis Anderson, Biomedical Engineering (S&E)
M. Zubaer Hossain, Mechanical Engineering
*TBD*

Millicent Ayako, Physics (S&E)
M. Zubaer Hossain, Mechanical Engineering
*Electronic Confinement of an Array of SiGe Alloyed Quantum Dots*

Dylan Frasher, Mechanical Engineering (SF)
M. Zubaer Hossain, Mechanical Engineering
*TBD*
Benjamin Halleran, Mechanical Engineering (SF)
M. Zubaer Hossain, Mechanical Engineering
*Pseudolattice Formations in Graphene Moire Patterns*

Timothy Hoff, Mechanical Engineering (SF)
M. Zubaer Hossain, Mechanical Engineering
*Predicting Toughness and Strength Anisotropy in Phosphorene*

Adrian Piel, Mechanical Engineering (S&E)
M. Zubaer Hossain, Mechanical Engineering
*Enabling the Measurement of Toughness of Heterogeneous Materials*

Michelle Reckner, Mechanical Engineering (SF)
M. Zubaer Hossain, Mechanical Engineering
*The Solid Mechanics of Perovskite*

Josiah Beck, Mechanical Engineering (S&E)
Joseph Kuehl, Mechanical Engineering
*TBD*

Evan Gotchel, Mechanical Engineering (S&E)
Joseph Kuehl, Mechanical Engineering
*TBD*

Brendan Jones, Mechanical Engineering (S&E)
Joseph Kuehl, Mechanical Engineering
*TBD*

Emily King, Biomedical Engineering (CBER NSF REU) (RPI)
X. Lucas Lu, Mechanical Engineering
*Effects of Statin on the Synthesis Rate of Chondrocytes*

Elizabeth Santoso, Mechanical Engineering (Unidel) (UC-Boulder)
Andreas Malikopoulos, Mechanical Engineering
*Connected and Automated Vehicles Development*

Raymond Zayas, Mechanical Engineering (S&E)
Andreas Malikopoulos, Mechanical Engineering
*TBD*

Alex Beyer, Mechanical Engineering (S&E)
Ioannis Poulakakis, Mechanical Engineering
*Control Design for A Priori Weight Estimation of Dynamically Walking Humanoids*

Rob Samuelson, Mechanical Engineering (S&E)
Ioannis Poulakakis, Mechanical Engineering
*Gripper Design for A Priori Weight Estimation for an Autonomous Quadrotor Drone*
Stephanie Ross, Mechanical Engineering (SF)
Ajay Prasad, Mechanical Engineering
Utilizing Composite Hydrophilic Membranes to Mitigate Flooding in PEMFCs

**Poster Session V**  
3:30-5:00

**Psychological & Brain Sciences**
Tyler Alexa Adams, Psychology (McNair)
Kathleen Brewer-Smyth, School of Nursing
Childhood Abuse, Hypothalamic-Pituitary-Adrenal Axis and Alcohol-Related Female Violence

Allyson Copeland, Psychological Sciences/Philosophy (Summer Workshop in Cognitive & Brain Sciences) (Western Kentucky)
Jasmin Cloutier, Psychological & Brain Sciences
Exploring Neural Mechanisms Underlying Status Differentiation

Betty Akalu, Neuroscience (INBRE)
Mary Dozier, Psychological & Brain Sciences
Cortisol Regulation in Middle Childhood

Jessica Pigeon, Psychology (INBRE)
Roberta Golinkoff, Psychological & Brain Sciences
Parents’ Emotions During Shared Reading of Print Books Versus eBooks

Courtney Aul, Psychology/Neuroscience (Plasket Award)
James Hoffman, Psychological & Brain Sciences
Is Semantic Information Processed Without Awareness in the Attentional Blink?

Zarek Fasoranti, Neuroscience (McNair)
James Hoffman, Psychological & Brain Sciences
The Absence of a Spatial Component in Emotion Induced Blindness

Alison Lobo, Neuroscience/Spanish Studies (INBRE)
James Hoffman, Psychological & Brain Sciences
Can Emotional Stimuli Overcome the Attentional Blink Without Physical Salience?
Casey Redding, Neuroscience (Nucleus)
James Hoffman, Psychological & Brain Sciences
*Semantic Priming Depends on Awareness During the Attentional Blink*

Julian Urbina, Psychology (McNair)
James Hoffman, Psychological & Brain Sciences
*TBD*

Joseph Osicky, Psychology (S&E)
Julie Hubbard, Psychological & Brain Sciences
*TBD*

Rubi Guadarrama, Psychology/Social Work (INBRE) (DSU)
Lisa Jaremka, Psychological & Brain Sciences
*The Impact of Mindfulness on Depressive Symptoms and Overall Well-Being*

Nicole Simpson, Psychology (INBRE)
Lisa Jaremka, Psychological & Brain Sciences
*The Effect of Mindfulness Intervention on Heart Rate Variability and Emotional Regulation in Adults with PTSD*

Eric Brengel, Neuroscience (SF)
Anna Klintsova, Psychological & Brain Sciences
*Effects of Neonatal Alcohol Exposures on Midline Thalamic Nuclei in Rodent Model*

Mary Callahan, Biological Sciences (SF)
Anna Klintsova, Psychological & Brain Sciences
*Nucleus Reuniens Activity in Rats using Spatial Memory*

Allison George, Neuroscience (SF)
Anna Klintsova, Psychological & Brain Sciences
*Presence of Hyperactive and Anxiety-Related Behaviors in a Model of Fetal Alcohol Spectrum Disorders*

Gillian LeBlanc, Neuroscience (SF)
Anna Klintsova, Psychological & Brain Sciences
*Effect of Third Trimester Equivalent Alcohol Exposure in Nucleus Reunions*

Bailey Collins, Neuroscience (S&E)
Dayan Knox, Psychological & Brain Sciences
*Using Near Infrared Imaging to Examine the Effect of Anisomycin Drug on Fear Memory - Induced Changes in AMPA/NMDA Receptor Ratios in the Fear Circuit*

Abigail Farkash, Neuroscience (S&E)
Dayan Knox, Psychological & Brain Sciences
*Using Near Infrared Imaging to Examine the Effect of Anisomycin on Fear Memory - Induced Changes in AMPA/NMDA Receptor Ratios in the Fear Circuit*
Amy Morris, Psychology (Unidel) (John Carroll University) & Alex Viana, Biology (Summer Workshop in Cognitive & Brain Sciences) (University of Massachusetts-Lowell)
Jared Medina, Psychological & Brain Sciences
*Exploring Somatosensory Changes in Lower Limb Amputees*

Marina Smolens, Electrical Engineering (S&E)
Joshua Neunuebel, Psychological & Brain Sciences
*TBD*

Tara Cohen, Neuroscience (S&E)
Robert Rafal, Psychological & Brain Sciences
*Effects of Cerebellar Stimulation on Identity Priming*

Katey Hunt, Biology (Unidel) (Clarkson University)
Tania Roth, Psychological & Brain Sciences
*Comparison of Brain and Blood Methylation Values Associated with Early-Life Adversity*

Catherine Zimmerman, Neuroscience (S&E)
Tania Roth, Psychological & Brain Sciences
*Preventative Effects of Valproic Acid on Maltreatment-Induced DNA Methylation Within the Infant Prefrontal Cortex*

Elizabeth McAuley, Neuroscience (S&E)
Jaclyn Schwarz, Psychological & Brain Sciences
*Examining the Impact of Neuroimmune Dysregulation on Play Behavior in Male and Female Juvenile Rats*

Megan Muench, Neuroscience (S&E)
Jaclyn Schwarz, Psychological & Brain Sciences
*Impact of Neuroimmune Dysregulation on Social Interaction and Social Memory on Male and Female Juvenile Rats*

Stella Zhao, Neuroscience (S&E)
Jaclyn Schwarz, Psychological & Brain Sciences
*Prenatal Zika Virus Infection Alters Later Life Immune Function in Adult Rats*

Colin Horgan, Neuroscience (S&E)
Mark Stanton, Psychological & Brain Sciences
*Contribution of Hippocampal Development to the Rapid Acquisition of a Context Representation*

Miranda Partie, Psychology (SF)
Mark Stanton, Psychological & Brain Sciences
*Effects of Systemic Scopolamine Injections on Standard Contextual Fear Conditioning*

Claudia Pinizzotto, Neuroscience (SF)
Mark Stanton, Psychological & Brain Sciences
*TBD*
Samuel Dzik, Biological Sciences (INBRE)
Timothy Vickery, Psychological & Brain Sciences
*Intentional vs Unintentional Visual Statistical Learning*

Joel Lobban, Biochemistry (INBRE)
Timothy Vickery, Psychological & Brain Sciences
*Visual Statistical Learning and Category Learning*

Anna McCarter, Neuroscience (SF)
Timothy Vickery, Psychological & Brain Sciences
*Effects of Motor Confounds on Tracking Value of Location-Based Features*

**Linguistics & Cognitive Science**

Hannah Martin, Neuroscience (S&E)
Sayako Earle, Linguistics & Cognitive Science
*Relation of Sub-Cortical Structure Segmentation and Social Integration*

Emily Virok, Psychology (S&E)
Sayako Earle, Linguistics & Cognitive Science
*The Role of Exposure to Accented English on Novel Speech Sound Acquisition*

Laura Matista, Cognitive Science (SF)
Kathryn Franich, Linguistics & Cognitive Science
*Acoustics of Vowels in Medumba*

Lena Herman, Cognitive Science (SF)
Arild Hestvik, Linguistics & Cognitive Science
*Ad Hoc Phonetic Representations*

Justus Matteson, Computer Engineering (SF)
Kaja Jasinka, Linguistics & Cognitive Science
*TBD*

Krystal Mendez, Cognitive Science (INBRE)
Zhenghan Qi, Linguistics & Cognitive Science
*Examining EEG Data Retention Differences Between Neural Typical Children and Children with Autism Spectrum Disorder*

Diana Rios, Neuroscience (S&E)
Zhenghan Qi, Linguistics & Cognitive Science
*Individual Differences in Adult Multi-Modal Statistical Learning*

Hannah Stetson, Cognitive Science (INBRE)
Zhenghan Qi, Linguistics & Cognitive Science
*Clarifying the Neural Underpinnings Supporting Processing of Speech Distributional Information*
**Materials Science & Engineering**
Andrew Aumen, Chemistry (NSF-REU INTERFACING SUSTAINABLE ENERGY & MATERIALS) (Shippensburg University)
Matthew Doty, Materials Science & Engineering
*Synthesis of Quantum Dot Nanostructures for Applications in Photon Upconversion*

Sofia Alfieri, Biological Engineering (Purdue University)
LaShanda Korley, Materials Science & Engineering
*3D Printing of Spatially Controlled Thermoresponsive Hydrogels*

Mya Soukaseum, Chemical Engineering
LaShanda Korley, Materials Science & Engineering
*Pathway-Dependent Mechanics and Morphology in Polymer-Reinforced Gels*

Roshau Titus, Engineering Science/General Mathematics (Unidel) (Lincoln University)
Stephanie Law, Materials Science & Engineering
*Characterization of Semiconductor Material Permittivity and Permeability with Fourier Transform Infrared Spectroscopy and Drude-Lorentz Formalism*

Timothy Wentzien, Computer Engineering (EPSCoR)
John Rabolt, Materials Science & Engineering
*Creating a Low-Cost Ion-Sensitive FET Based Sensor Network*

Zachary LaDuca, Chemical Engineering (S&E)
Joshua Zide, Materials Science & Engineering
*TBD*

**Electrical & Computer Engineering**
Oliver Gambrell, Electrical Engineering (S&E)
Gonzalo Arce, Electrical & Computer Engineering
*Neural Networks for Computerized Tomography*

Ahmed Masood, Electrical Engineering (ECE)
Leonard Cimini, Electrical & Computer Engineering
*TBD*

Ryan Petery, Computer Engineering (ECE)
Leonard Cimini, Electrical & Computer Engineering
*TBD*

Ryan Kabrick, Computer Engineering (ECE)
Guang Gao, Electrical & Computer Engineering
*FPGA Application for Parallel Execution Model Simulation*

Lorry Chang, Electrical Engineering (S&E)
Tingyi Gu, Electrical & Computer Engineering
*TBD*
Alec Scallo, Mechanical Engineering (S&E)
Tingyi Gu, Electrical & Computer Engineering
*Material Transfer: 2D Printing Process*

Daniel May, Computer Engineering (Paradigm Scholar)
Fouad Kiamilev, Electrical & Computer Engineering
*Container-Based Deployment of Hardware-Dependent Software*

Andrew Sayanlar, Jaclyn Singh, Computer Engineering & Matthew Sayanlar, Electrical Engineering (ECE)
Fouad Kiamilev, Electrical & Computer Engineering
*Hardware Development for Infrared Systems*

Paul Zaloga, (ECE) (Appoquinimink High School)
Richard Martin, Electrical & Computer Engineering
*TBD*

Evan Battaglia, Electrical Engineering (ECE)
Mark Mirotznik, Electrical & Computer Engineering
*3D Printed Modular Chemical Sensing Platform via Automated Drone*

Joel Huffman, Electrical Engineering (ECE)
Mark Mirotznik, Electrical & Computer Engineering
*TBD*

Daniel Lee, (ECE) (Calloway School of the Arts)
Mark Mirotznik, Electrical & Computer Engineering
*Force Sensor Fabrication Using CNT-Silicone Composite*

Bright Lu, Electrical Engineering (ECE)
Mark Mirotznik, Electrical & Computer Engineering
*Characterization of Copper Parts 3D Printed via Cold Spray with Applications for Transmission Lines*

Trey Martin, (ECE) (Newark Charter School)
Mark Mirotznik, Electrical & Computer Engineering
*TBD*

Christian Newman-Sanders, Electrical Engineering (ECE)
Mark Mirotznik, Electrical & Computer Engineering
*TBD*

Jake Robinson, (ECE) (VMI)
Mark Mirotznik, Electrical & Computer Engineering
*Characterization of Copper Parts 3D Printed via Cold Spray with Applications for Transmission Lines*

Sabrina Rosenthal, Electrical Engineering (ECE)
Mark Mirotznik, Electrical & Computer Engineering
*Designing a Functional 3D Printed RC Submarine*
Landon Jones, Computer Science (ECE)
Andrew Novocin, Electrical & Computer Engineering
TBD

James Sergent, Computer Engineering (S&E)
Andy Novocin, Electrical & Computer Engineering
TBD

Jared Pineiro, Electrical Engineering (McNair)
Dan Weile, Electrical & Computer Engineering
Solution Methods for Time Domain Integral Equations

Adam Caulfield, Computer Engineering (ECE)
Chengmo Yang, Electrical & Computer Engineering
Implementation and Testing of an Energy and Spatial Efficient Clustering Method for Ad-Hoc Sensor Networks

Ntseesang Ndingwan, Computer Science (S&E)
Chengmo Yang, Electrical & Computer Engineering
Simulating Pedestrian Movement for Open Space Event Protection

Nicholas Zahabiun, Computer Engineering (S&E)
Chengmo Yang, Electrical & Computer Engineering
TBD

**Computer & Information Sciences**

Toby Boyd, Computer Science (S&E)
Leila Barmaki, Computer & Information Sciences
TBD

Darren Butler, Computer Science (Unidel) (Midwestern State University)
Austin Bart, Computer & Information Sciences
Beyond Right or Wrong: Designing User-Friendly Autograders from Instructors' Models of Feedback

Matthew Stack, Computer Science (S&E)
Sunita Chandrasekaran, Computer & Information Sciences
TBD

Wei Zhang, Computer Science (S&E)
Keith Decker, Computer & Information Sciences
Exploring Stable Structures for Tissue Organization by Agent-Based Modeling

Minji Kong, Computer & Information Sciences (SF)
Lori Pollock, Computer & Information Sciences
Increasing Understanding of Students’ Programming Process Through Scratch Programming Event Data Analysis
Brandon Simeone, Medical Diagnostics (VEIL Lab)
Shawn Polson, Computer & Information Sciences
*Improving Viral Metagenome Integrity by Minimizing Background Environmental DNA*

**Mathematical Sciences**
Brandon Gilbert, Mathematical Sciences (S&E)
Sebastian Cioaba, Mathematical Sciences
*Analyzing Networks Through Their Eigenvalues*

Sabin Gaire, Mathematics/Computer Science (Unidel) (Howard University)
Michelle Cirillo, Mathematical Sciences
*Student Achievement in Proof in Secondary School Geometry*

Jatzia Gilzean-Colon & Alexis Kimpton, Mathematics Education & Yuxuan Wu, Mathematical Sciences (S&E)
Michelle Cirillo, Mathematical Sciences
*The Decomposition of Proof in Secondary Geometry*

Jake Sitison, Applied Mathematics (S&E)
David Edwards, Mathematical Sciences
*Application of the Heat Balance Integral Method in 3-D Printing Extrusion Rate Maximization*

Matthew Benvenuto, Computer Science/Applied Mathematics (S&E)
Pak-Wing Fok, Mathematical Sciences
*Effect of Media Sclerosis on Blood Flow Pulsatility*

Kaitlin Canalichio, Quantitative Biology (S&E)
Chad Giusti, Mathematical Sciences
*Topological Features for Classification of Tear Film Dynamics*

Ziyu Zhao, Mathematical Sciences/Economics (S&E)
Christopher Raymond, Mathematical Sciences
*Bifurcation Analysis of Models for Tissue Organization with Feedback Control*

Matthew Gargano, Mathematics/Computer Science (INBRE)
Gilberto Schleiniger, Mathematical Sciences
*Modeling Tissue Organization with Age Structured Populations*

Joshua Windsor, Mathematics (NASA DESGC/EPSCoR) (Wesley College)
Derald Wentzien, Mathematics (Wesley College)
*TBD*

Alena Gusakov, Mathematical Sciences (S&E)
Qing Xiang, Mathematical Sciences
*Optimal Swaps for Maximizing Distinct Partial Sums in a Cyclic Group*
Fred Wang, Mathematical Sciences (S&E)
Qing Xiang, Mathematical Sciences
TBD

**Accounting & Management Information Systems**
Vishva Patel, Management Information Systems (McNair)
Gang Wang, Accounting & Management Information Systems
*Understanding Students’ Learning Habits by Utilizing Learning Clickstream Data*

**Physics & Astronomy**
Ahmed Jalal Tamimi, Computer Engineering (S&E)
Bennett Maruca, Physics & Astronomy
TBD

Jeffrey Neumann, Mechanical Engineering (S&E)
Bennett Maruca, Physics & Astronomy
TBD

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**Oral Session One**
8:30 – 9:45 am

**Art & Design I**
(Room 110)
Moderator: TBA

Jack Glicker, Art (AHSS)
Abigail Donovan, Art & Design
*Cyph: A Vision for the Future of Live Events*

Madison Horton, Art (Nucleus)
Abigail Donovan, Art & Design
*Moods: Dealing with Stress and Anxiety*

Nathan Robison, Art (AHSS)
Abigail Donovan, Art & Design
*Design as Medicine: Studying How Aesthetic Affects a Prosthetic User’s Perception of their Device*

Kerline Aures, Art (Pattison)
Lance Winn, Art & Design
*Cric?: A Study of Haitian Folklore Through a Series of Animations*
Veronica Parcells, Art (AHSS)
Lance Winn, Art & Design
*Special Effects as an Artistic Medium*

**Science**
(Room 215)

**Moderator: Mark Parcells, Animal & Food Sciences**

Abigail Weisler, Athletic Training (Unidel) (Methodist University)
Thomas Kaminiski, Kinesiology & Applied Physiology
*Investigation of Ankle Sprain Rehabilitation Contrasting RICE Versus Micro-Mobile Compression*

Grace Coleman, Exercise Science (PT)
Daniel White, Physical Therapy
*Does a Physical Therapist-Administered Physical Activity Intervention Reduce Sedentary Time After Total Knee Replacement?*

Hannah Brown, PVAB (Cooperative Extension)
Mark Parcells, Animal & Food Sciences
*The Envision Program*

Rebecca Ralston, Wildlife Ecology & Conservation (AHSS)
McKay Jenkins, English
*Environmental Education Through Digital Media*

**Fashion & Apparel Studies**
(Room 222)

**Moderator: Huantian Cao, Fashion & Apparel Studies**

Afia Asamoah, Fashion Merchandising (AHSS)
Huantian Cao, Fashion & Apparel Studies
*The ZDHC Strategies to Zero Discharge of Hazardous Chemicals*

Felicia Bello, Apparel Design (AHSS)
Kelly Cobb, Fashion & Apparel Studies
*Encouraging Well-Being Through Intelligent Clothing: An Exploratory Study*

Lora Merryman, Fashion Merchandising (AHSS)
Sheng Lu, Fashion & Apparel Studies
*Data-Analytics Curriculum: The New Path for Fashion Programs*

Megan Wolfe, Fashion Merchandising (AHSS)
Huantian Cao, Fashion Merchandising
*TBD*
**Community Landscapes** *(Room 322)*

**Moderator: Jules Bruck, Plant & Soil Sciences**

Christopher Bonura, Alexandra Hubler, Jessica Toy, Landscape Architecture (CEI Summer Scholar) & Erin Fogarty, Plant Sciences (CENFOODS)
Jules Bruck, Plant & Soil Sciences

*Living Laboratory - Pop-up Projects for Local Plan Development and Evaluation*

Elisabeth Davis, Plant Sciences /Agriculture & Natural Resources & Shirley Duffy, Landscape Architecture (CENFOODS)
Anna Wik, Plant & Soil Sciences

*UD Children’s Campus Edible Forest Garden Landscape Management*

Anna Wik, Plant & Soil Sciences

*UD Children’s Campus Educational Resource Guide Development*

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**Education** *(Room 417)*

**Moderator: David Coker, Education**

Esther Larios, Public Policy (Biden School/IPA)
Kelly Sherretz & Lisa Moreland Allred, Institute for Public Administration

*Social Media Plan for College Application Month*

Lindsey Perez-Perez, Education (McNair)
April Veness, Geography

*Lessons Learned in School and Life: A Storytelling Project with the Latino Community in Sussex County, DE*

Lindsey Cohen, Marketing (AHSS)
Suresh Sundaram, Business Administration

*Factors Influencing Job Offer Decisions*

Meghan Quigley, Elementary Teacher Education (AHSS)
David Coker, Education

*Code Switching in an ESL Context*

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**Oral Session Two**

**10:00 – 11:15 AM**

**Art & Design II** *(Room 110)*

**Moderator: Amy Hicks, Art & Design**
Sierra Bacon, Art (AHSS)
Amy Hicks, Art & Design
*Audio, Art, and Society: Using the Moving Image to Be Heard*

Thomas Bond, Fine Arts (AHSS)
Amy Hicks, Art & Design
*Diaspora*

Anna Sefil, Art (AHSS)
Amy Hicks, Art & Design
*What is Going on Inside Their Head?: A Look Behind the Human Expressions*

Colleen Anderson, Art (AHSS)
Aaron Terry, Art & Design
*TBD*

**Psychology & Anthropology**

*Room 215*

**Moderator:** Mary Dozier, Psychological & Brain Sciences

Gabrielle Jack, Emily Murphy & Rachel Northrup, Psychology (CEI Summer Scholar)
Mary Dozier, Psychological & Brain Sciences
*Psychobiological Development Among Children in Middle Childhood*

Sydney Hirsch, Health Behavior Science & Amy Hom, Biological Sciences (CEI Summer Scholar)
Mary Dozier, Psychological & Brain Sciences
*Dissemination of Evidence-Based Intervention*

Rachel Bruinsma, Psychology (Unidel) (Wayne State University)
Jean-Philippe Laurenceau, Psychological & Brain Sciences
*Diabetes is Stressing Us Out! Diabetes Distress as a Unique Predictor of Diabetes Outcomes in Couples Facing Type 2 Diabetes*

Sierra Enea, Biological Sciences (McNair)
Georgina Ramsay, Anthropology
*TBD*

**Public Policy & Administration/Political Communication**

*Room 222*

**Moderator:** William Decoursey, Institute for Public Administration

Michaela Dougherty, Energy & Environmental Policy (Biden School/IPA)
William Decoursey & Sarah Pragg, Institute for Public Administration
*How DelDOT Engages Followers on Social Media*
Sarah Mazzarella, Public Policy/Music (Biden School/IPA)
Julia O’Hanlon & Marcia Scott, Institute for Public Administration
*Mobility in Motion*

Alexandra Guterbock, Public Policy/International Relations (Biden School/CCRS)
Stephen Metraux, Biden School of Public Policy & Administration
*Evictions and Housing Insecurity in Wilmington, DE*

Daniel Paulsen, Political Science (Unidel) (University of Oregon)
Andrea Sarzynski, Biden School of Public Policy & Administration
*Environmental Literacy in PreK-12: Analyzing Leading States Environmental Education Policies*

Jake Savage, Medical Diagnostics (CEI Summer Fellow)
Nancy Karibjanian, Center for Political Communication
*Summer Fellowship Project in Journalism with WITN*

**Food (Room 322)**
**Moderator: TBA**

Emma Groman, Psychology/Sociology (CEI Summer Scholar)
Yasser Payne, Sociology & Criminal Justice
*Cultivating Minds: The Impacts of the Young Farmers Program at Bright Spot Farm*

Brandi Wesley, Health Promotion (Cooperative Extension/Dickerson Scholar)
Kathleen Splane, Cooperative Extension
*Bright Spot Farms-Assessing Dietary changes*

Eric Albiez, Food & Agribusiness Marketing & Management (Cooperative Extension/Chick Allen Scholar)
Emmalea Ernest, Cooperative Extension
*Quality Evaluation for Specialty Melons and Sweet Corn*

Julie Hartung, Anthropology (Unidel) (ETSU)
Lindsay Naylor, Geography
*Urban Food Forestry: Impacting Individuals and Communities*

**Gender (Room 417)**
**Moderator: Chrysanthi Leon, Sociology & Criminal Justice**

Ellie Fleming, Latin American & Iberian Studies (Pattison)
Eve Buckley, Latin American Studies
*Gender Policy in Argentina*

Natalie Walton, Sociology (AHSS)
Chrysanthi Leon, Sociology & Criminal Justice
*Myths, Messaging, and the Media: The Media’s Role in Perpetuating Sexual Harassment Stereotypes*
Julian Harbaugh, Political Science (AHSS)
Rebecca Davis, History
Seeing Sex: Negotiating Disability and Sexuality in Sex Education

Amy Ciminnisi, Anthropology (Nucleus)
Patricia Sloane-White, Women's Studies
Being Queer in Muslim Malaysia

Nathan Fulham, Philosophy (AHSS)
Hsin-Wen Lee, Philosophy
Making Sense of the Abortion Debate

Oral Session Three
11:30 AM – 12:45 PM

Art in the Community (Room 110)
Moderator: Jon Cox, Art & Design

Dajah White-Dumpson, Neuroscience (McNair)
Tiffany Barber, Africana Studies
Black Women in Art in the 21st Century

Matthew Doe, Sociology (PAC Scholar)
Abigail Donovan, Art & Design
Creative Vision Factory

Briana Henry, Art & Design (CEI Summer Scholar)
Jonathan Cox, Art & Design
Arrivals: What's Left Behind, What Lies Ahead

Olivia Quinci, English (AHSS)
Emily Davis, English
Strategies of Postcolonial Voices: A Review of Four Works

Morgan Hurlock, Applied Music (AHSS)
Todd Groves, Music
Jazz in Croatia: Analyzing Improvisatory Techniques from Student to Master
**Fox Chase Cancer Center**  
(Room 215)

**Moderator: Amanda Purdy, Fox Chase Cancer Center**

Jonte Desire, Biological Sciences (FCCC/UD)  
Eti Cukierman, (Fox Chase Cancer Center)  
*Welcome to the Neighborhood: Optimizing the in Vitro Production of Pancreatic Cancer's Microenvironment*

TraMi Nguyen, Biological Sciences (FCCC/UD)  
Neil Johnson, (Fox Chase Cancer Center)  
*Examining BRCA1 Expression in PARP Inhibitor Sensitive and Resistant Cancers*

Houston Ward, Biological Sciences (FCCC/UD)  
Lori Rink, (Fox Chase Cancer Center)  
*Functional Evaluation of New Targets in PDGFRA-Mutant Gastrointestinal Stromal Tumors*

Jessica Mauricette, Biological Sciences (FCCC/UD)  
Sanjeevani Arora, (Fox Chase Cancer Center)  
*DNA Fiber Analysis: Visually Tracking DNA Replication Defects due to Genetic Variants in DNA Polymerase Genes*

**Wilmington Summer Programs**  
(Room 222)

**Moderator: Jocelyn Alcántara-Garcia, Art Conservation**

Jane Allen, Art History/Ancient Greek & Roman Studies & Kimberly Ortega, Art History/Art Conservation (CEI Summer Scholar)  
Jocelyn Alcántara-Garcia, Art Conservation  
*Art and Science Outreach at Winterthur Museum and Salvation Army*

Reiley Bond, Kaitlyn Downer, Marigrace Ferrill, Sean Magee & Hannah Wiswell, Mechanical Engineering; Pooja Gouru, Neuroscience  
Amy Trauth, Professional Development Center for Educators  
*Summer STEM Education in Local Delaware Communities*

Gabriella Dagher, Neuroscience; Chloe Hundley, PVAB; River Shannon, Biochemistry/Chemistry; Cassie Traina, Biology & Ashley Warokomski, Chemistry (CEI STEM Teaching Fellow)  
Amy Trauth, Professional Development Center for Educators  
*TBA*

April Singleton, Entrepreneurship & Technology Innovation; Kennedy Medley, Neuroscience; Ikira Peace, Interpersonal Communication/Organizational & Community Leadership; Amber Rance, Health Behavior Science & Christian Wills, English (CEI Summercollab Fellow)  
Lynnette Overby, Theatre  
*The Value of the SummerCollab - How Making Summer Smarter Helps our Students Thrive Socially*
Janelly Abreu, International Relations; Samantha Gibbs, Biology; Zachery Love, Political Science; Taimira Ramseur, Public Policy & Kayla Williams, Communication (CEI Wilmington Summer Fellow)
David Teague, Associate in Arts
Wilmington Parks and Recreation Play Streets

**Communication/Linguistics** (Room 322)
Moderator: Lindsay Hoffman, Communication

Grayson Ziegler, Linguistics (AHSS)
Tyson Sukava, Foreign Languages and Literatures
The Effect of Danish Colonialism on Icelandic and Faroese Phonology

Andrew Luu, Psychology (Unidel) (CSU-DH)
Zhenghan Qi, Linguistics & Cognitive Science
Examination of Language Related Brain Structures in Children with Autism Spectrum Disorder

Sean Hinton, Communication (AHSS)
John Courtright, Communication
The Consequences of Violating Cell Phone Etiquette

Joshua O'Donnell, Communication (AHSS)
Lindsay Hoffman, Communication
Impact of Engaging in Political Podcasts

Isabel Jean-Louis, Communication (AHSS)
Stephen Mortenson, Communication
Attachment Theory and Child Development

**Oral Session Four**
2:00 – 3:15 PM

**Art/Art Conservation/Art History/English** (Room 110)
Moderator: Monica Dominguez Torres, Art History

Carolyn Chen, Chemistry/Chinese (Unidel) (UNC-Chapel Hill) & Olivia Jaeger, Art Conservation
Jocelyn Alcántara-Garcia, Art Conservation
TBD

Tatiana Alfaro, Art History (Unidel) (Bard College)
Monica Dominguez Torres, Art History
Plazas and Photography as Recovery, the Indigenous People of Cusco
Environmental Sustainability & Justice  (Room 215)
Moderator: TBA

Benjamin Aghajanian, Environmental Engineering (CEI Summer Scholar)
Michael Chajes, Civil & Environmental Engineering
*Improving Society Through Cultivating Leaders in Sustainability*

Kohei Akiba, Public Policy & Administration (Biden School/IPA)
Philip Barnes, Institute for Public Administration
*Coastal Federal Consistency Policy: A Gap Analysis*

Bianca Mers, International Relations (McNair)
Benjamin Bagozzi, Political Science & International Relations
*Sustainable Urban Development in Buenos Aires*

Alyssa Schiff, Environmental Studies (McNair)
Victor Perez, Sociology & Criminal Justice
*Content Analysis of News Media Characterization of Environmental Justice in Delaware*

Anthropology & Sociology  (Room 222)
Moderator: Ronet Bachman, Sociology & Criminal Justice

Molly Fulton, Anthropology (AHSS)
Carla Guerrón-Montero, Anthropology
*Infant Mortality in Delaware: The Significance of Approach*

Daniele Richards, Criminal Justice (Hofmann)
Ronet Bachman, Sociology & Criminal Justice
*Women and Desistance from Prescription Drug Misuse*

Christen Asiedu, Criminal Justice (McNair)
Ellen Donnelly, Sociology & Criminal Justice
*The Roles of Neighborhood Conditions on Racial Disparities in Incarceration Sentencing*
Art & Design III (Room 322)
Moderator: Ian Sampson, Art & Design

Jeffrey Churchman, Art (AHSS)
Jon Cox, Art & Design
Invisible Photography

Stephanie Boateng, Organizational & Community Leadership (AHSS)
Abigail Donovan, Art & Design
ART-Natomy: The Science Behind Figurative Sculpture

Nathaniel Hisson, Art (AHSS)
Ian Sampson, Art & Design
My Rot: Comic Creation and Mental Wellness

POSSIBLE DANCE PERFORMANCE (ROOM 417)

Oral Session Five
3:30 – 4:45 PM

Arts Education (Room 110)
Moderator: TBA

Jake Brancati, Choral Music Education (CEI Summer Scholar)
Suzanne Burton, Music
Early Childhood Music Immersion

Emma Engel, Music Education (AHSS)
Aimee Pearsall, Music Education
The Effects of Musical Cueing in Music Therapy Sessions: A Case Study of a Child with Autism

Sean Scanlon, Music Theory (AHSS)
Aimee Pearsall, Music Education
The Effect of Narrative on Musical Composition

Kamal Alkhatib, Nursing (ArtsBridge)
Jame McCray, College of Earth Ocean & Environment
Climate Change Movement: Teaching Climate Change Through Dance

Alexandra Curnyn, Communication (ArtsBridge)
Jame McCray, College of Earth Ocean & Environment
Arts Integrated Science Lessons: Learning About Climate Change Through Dance
**Community Wellness**  
(Room 215)  
**Moderator: Gregory Dobler, Biden School of Public Policy & Administration**

Analise Kaminski, Health Behavior Science & Michaela Meyer, Applied Nutrition (CEI Summer Scholar)  
Iva Obrusnikova, Behavioral Health & Nutrition  
*Using Innovative Strategies to Assess Food and Physical Activity Among Adults with ID*

Brianna Wolfe, Health Behavior Science (CEI Summer Scholar)  
Elizabeth Orsega-Smith, Behavioral Health & Nutrition  
*Early Memory Loss*

Colleen Mueller, Human Services (Biden School/CCRS)  
Gregory Dobler & Frederica Bianco, Biden School of Public Policy & Administration  
*Measuring Tobacco Advertisement Exposure in the Streets of Wilmington*

Alyssa Saienni, Health Promotion (Cooperative Extension)  
Breanna Banks, Cooperative Extension  
*4-H Healthy Living: Instructional Videos of Strength & Flexibility Postures from the GEM Curriculum*

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**History**  
(Room 222)  
**Moderator: Jennifer Van Horn, History**

Daniel Zang, History (AHSS)  
Michael Frassetto, History  
*Concepts of Tribes, States, and Islam in the 7th Century Middle East*

Jack Ausmus, History (AHSS)  
Jennifer Van Horn, History  
*Impacts of the Institution of Slavery on the University of Delaware*

Dahlia LaBan, History Education (AHSS)  
Bruce Bendler, History  
*Written by the Victors: An Examination of Textbooks and the Struggle for the Public Memory of Reconstruction*

Patrick Graves, History (Pattison)  
Polly Zavadivker, History  
*SS-Totenkopfverbände: Morality in the Midst of Genocide*

Brianna Martinez, International Relations (McNair)  
Polly Zavadivker, History/Jewish Studies & William Meyer, Political Science & International Relations  
*Reflections on Genocide Prevention*
Cultivating Democracy
(Room 322)
Moderator: TBA

Zoe Federman, Anthropology/Women & Gender Studies & Grace Pennington, Organizational & Community Leadership (Biden School/CCRS)
Signe Bell, Biden School of Public Policy & Administration
*Building Capacity in Community and Faith-Based Organizations*

Allison Michalowski, Liberal Studies (AHSS)
Marcia Scott, Institute for Public Administration
*Complete Communities Toolbox: Developing Multimedia Online Tools to Help Local Governments with Policy Making*

Jordan Spencer, History Education (McNair)
Kassra Oskooii, Political Science & International Relations
*Political Involvement in Black Communities*

Caleb Owens, Philosophy (AHSS)
Richard Hanley, Philosophy
*E Democracy*