Poster Presentations

Session I  
8:30-10:00am
(Christiana Care Health System, Nemours Biomedical Research, Fox Chase Cancer Center, Pathology, Medical Laboratory Sciences, Nursing, Kinesiology & Applied Physiology, Physical Therapy, Behavioral Health & Nutrition)

CHRISTIANA CARE HEALTH SYSTEM
Jessica Saunders, Evolutionary Anthropology (INBRE) (Duke University)
Alfred Bacon, Infectious Disease (Christiana Care Health System)
TBA

Alexander Jean-Francois, Biology (INBRE) (Wesley College)
Melanie Chichester, Labor & Delivery (Christiana Care Health System)
TBA

Khadijah Bland, Biological Chemistry (INBRE) (Wesley College)
Jennifer Goldstein, Department of Medicine (Christiana Care Health System)
Over-The-Counter Insulin: How Big of a Problem is This?

Tajah Lewter, Biological Sciences (INBRE) (DSU)
Raymond Green, Department of Surgery (Christiana Care Health System)
Sensitivity of Physical Examination in Blunt Pelvic Trauma: What We Think We Know

Shellayah Benson, Biological Sciences (INBRE) (DTCC)
Michael Guarino, Oncology & Charles Mulligan Jr., Cancer Thoracic Surgery (Christiana Care Health System)
HFGCC Surgically Resectable Esophageal Cancer: An Institution expiration (2002-2017)

Fouad Farag, Biological Sciences (INBRE) (DSU)
Luis Cardenas, Department Of Surgery (Christiana Care Health System)
TBA

Autumn Hoffman, Pre-medical/Chemistry (INBRE) (Washington College)
Mark Cipolle, Department Of Surgery (Christiana Care Health System)
Right Patient, Right Place, Right Time: Field Triage and Direct Transfer of Trauma Patients to Level I Trauma Center

Madison Newman, Neuroscience/Liberal Studies (INBRE)
Mark Cipolle, Department Of Surgery (Christiana Care Health System)
Gaining a Piece of Mind: The Impact of Decompressive Craniectomy Procedures on Patient Outcomes with Severe Traumatic Brain Injury
Queen Ralph, Biology (INBRE) (DSU)
Daniel Meara, Department of Oral and Maxillofacial Surgery & Hospital Dentistry (Christiana Care Health System)
TBA

Ta-Brea Fields-Miller, Exercise Science (INBRE) (Norfolk State University)
Sandra Medinilla, Department of Surgery (Christiana Care Health System)
TBA

Benjamin Crain, Undeclared (INBRE) (Emory University)
Stephen Pearlman, Neo Natal Medical Group (Christiana Care Health System)
TBA

Sydney Shuster, Medical Laboratory Science (INBRE)
Adam Raben, Radiation Oncology (Christiana Care Health System)
Evaluating the Impacts of the Multidisciplinary Clinic and Total Treatment Time on Oropharyngeal Cancer Patients

Aaron Tavasi, Biological Sciences (INBRE)
Sherry Sixta, Department Of Surgery (Christiana Care Health System)
A Change of Heart: TTE vs. TEE in Blunt Cardiac Injury

Jessica Pigeon, Psychology (INBRE)
Shannon Virtue, Behavioral Health Psychology (Christiana Care Health System)
Coping and Distress among Individuals Diagnosed with Cancer and Diabetes

NEMOURS BIOMEDICAL RESEARCH
Nomerra Koreshi, Neuroscience (INBRE)
Melissa Alderfer, Center for Healthcare Delivery Science (Nemours)
TBA

Michael Murphy, Neuroscience (NSURP) (Dickinson College)
Al Atanda, Orthopedics (Nemours)
Transfers of Orthopedic Patients to a Level 1 Pediatric Trauma Center: Can Telemedicine Help Reduce Costs, Decrease Wait Times, and Prevent Unnecessary Transfers?

Morgan Domanico, Biology (NSURP) (Washington College)
Jenna Briddell, ENT (Nemours)
Juvenile Onset Recurrent Respiratory Papillomatosis: A Retrospective Review of the Nemours Experience with a Rare Disease.

Noah Durica, (Nemours Mentor) (Stony Brook University)
Aaron Chidekel, Pulmonology (Nemours)
TBA

Micayla Flores, (Nemours Mentor) (MIT)
Aaron Chidekel, Pulmonology (Nemours)
*The Effects of Chronic Illness on Sleep, Anxiety and Quality of Life in Pediatric Cystic Fibrosis and Asthma*

Brianna Eckeard, Medical Laboratory Science (INBRE)
Paul Fawcett, Research (Nemours)
*TBA*

Annelise Su, Health Sciences (Nemours) (University of Richmond)
Michell Fullmer & Heidi Keckskemethy, Medical Imaging (Nemours)
*The Prevalence of Vitamin D Deficiency in Newly Diagnosed Pediatric Oncology Patients*

Riley Curtin, Biomedical Engineering (INBRE)
Sharon Gould, M. Patricia Harty & H. Theodore Harcke, Medical Imaging (Nemours)
*TBA*

Demetria Ruhl, Chemistry/French (NSURP) (Dickinson College)
Anilkumar Gopalakrishnapillai, Research (Nemours)
*Cloning and Overexpression of a Novel Leukemic Fusion Gene in Induced Pluripotent Stem Cells: Effects on Proliferation and Differentiation of Lymphocytes*

Arianna Eaton, Global Public Health & Epidemiology (Nemours-OHEI) (Alma College)
Laurens Holmes, Jr., Office of Health Equity & Inclusion (Nemours)
*Effect Measure Modification Implication of Area of Residence in Survival Disadvantage of Black Children with Renal Cell Carcinoma*

Sydney Gardner, Psychology/Healthcare Studies (Nemours-OHEI) (University of Richmond)
Laurens Holmes, Jr., Office of Health Equity & Inclusion (Nemours)
*Diabetes Exposure Effect on Dental Disorders among Children*

Delaney Gilfoyle, Psychology (Nemours-OHEI)
Laurens Holmes, Jr., Office of Health Equity & Inclusion (Nemours)
*Etiology and Characterization of Failed Back Surgery Syndrome*

Kijai Herring, Health Behavior Science (Nemours-OHEI)
Laurens Holmes, Jr., Office of Health Equity & Inclusion (Nemours)
*Racial and Sex Variabilities in Pediatric ALL Survival in Explained by Immunogenic Types*

Sylviann Horden, Nursing (Nemours-OHEI) (University of Maryland)
Laurens Holmes, Jr., Office of Health Equity & Inclusion (Nemours)
*Cumulative Mortality Variability in Delaware Pediatric Trauma as Exposure Effect of Health Inequity, Delaware Trauma Registry, 2000-2016*

Joshua James, Computer Science/Systems (Nemours-OHEI) (Taylor University)
Laurens Holmes, Jr., Office of Health Equity & Inclusion (Nemours)
*Impact of Mobile and Digital Health in Patient Care Improvement with Specific Focus in Pediatric Setting*

Andrew Lim, Chemistry (Nemours-OHEI) (UF)
Laurens Holmes, Jr., Office of Health Equity & Inclusion (Nemours)
Gene Expression, Physical Activity and Nutrition in Hypertension Predisposition

Erin Miller, Public Health (Nemours-OHEI) (Brown University)
Laurens Holmes, Jr., Office of Health Equity & Inclusion (Nemours)

Health Literacy and Implication of Health Disparities

Allyson Neibert, Nursing (Nemours-OHEI) (Shenandoah University)
Laurens Holmes, Jr., Office of Health Equity & Inclusion (Nemours)

Epidemiologic Characterization of Childhood Opium Overdose and Mortality

Avi Patel, Biomedical Engineering (Nemours-OHEI) (Rowan University)
Laurens Holmes, Jr., Office of Health Equity & Inclusion (Nemours)

Perinatal Risk Factors Influencing the Morbidity of Cerebral Palsy and Seizure Co-Occurrence in Pediatric Populations

Emily Shutman, Biology (Nemours-OHEI) (Haverford College)
Laurens Holmes, Jr., Office of Health Equity & Inclusion (Nemours)

The Effect of Childhood Trauma on Schizophrenia Related Gene Expression

Maymuna Siddiquea, Medical Diagnostics (Nemours-OHEI)
Laurens Holmes, Jr., Office of Health Equity & Inclusion (Nemours)

Influence of Health Literacy on Pediatric Health Outcomes on Global Health, Quality of Life and Health Disparities

Lauren Bules, Neuroscience (NSURP) (Johns Hopkins University)
Jing Jin, Ophthalmology (Nemours)
TBA

Emily Gripp, Pre-medical (INBRE) (PSU)
Heidi Kecskemethy, Research & H. Theodore Harcke, Medical Imaging (Nemours)

Pediatric CT Radiation Exposure in Community Hospitals Versus a Children’s Hospital: A 6-year Follow-Up Report

Julia Morris, Biology (NSURP) (Villanova University)
Zhengyu Ma, Research (Nemours)

Chimeric Antigen Receptor (CAR) Design for T-Cell Based Immunotherapy Against Her2 Expressing Mammary Cell Carcinomas

Margo Donlin, Engineering (NSURP) (Elizabethtown College)
Freeman Miller & Nancy Lennon, Gait Lab (Nemours)

The Influence of Foot Deformity on Mobility Function in Children with Cerebral Palsy

Alexis Moore, Biology (INBRE) (Wesley College)
Reid Nichols & Chris Church, Gait Lab (Nemours)

Arthrogryposis: Predicting the Future

Kaelyn Gwynne, Biology (NSURP) (PSU)
Mark Riederer, Orthopedics, Rochelle Haas, Rehabilitation Medicine & Maya Zayat, Psychology (Nemours)
TBA

Jackson Mace, Neuroscience (NSURP)
Valerie Sampson, Research (Nemours)
TBA

Corrine Seehusen, Biochemistry (NSURP) (The College of Saint Benedict)
Ambika Shenoy, Pulmonology (Nemours)
TBA

Julia Romberger, Physics (NSURP) (The College of William and Mary)
Catherine Soprano, Diagnostic Referral Service (Nemours)
TBA

Riley Larson & Dylan Ensslin (NIH R25)
Jeannie Stephens & Sarah Rooney, Biomedical Engineering
Michael Bober, Pediatrics & Richard Kruse, Orthopedics (Nemours)
Developing Modular Assistive Seating Devices for Infants with Osteogenesis Imperfecta

Genell Addison, Pre-Professional Chemistry (INBRE) (DSU)
Shirley Viteri, Emergency Medicine (Nemours)
TBA

Corban Weatherspoon, Physics/Bioengineering (INBRE) (DSU)
Soonmoon Yoo, Research (Nemours)
TBA

FOX CHASE CANCER CENTER
Deeanne Almeida, Neuroscience (UD/FCCC/Hofmann)
Eileen Jaffe, Molecular Therapeutics (Fox Chase Cancer Center)
Chromatographic Behavior of Phenylalanine Hydroxylase as a Probe of the Equilibrium between Alternate Conformations

Elizabeth Habash, Biological Sciences (UD/FCCC/Hofmann)
Wafik El-Deiry, Molecular Therapeutics (Fox Chase Cancer Center)
Novel P53 Restoring Compounds Effects in P53 Protein Stability and NOXA Expression in Colorectal Cancer Cells

Yasmin Mann, Biological Sciences (UD/FCCC/Hofmann)
Erica Golemis, Molecular Therapeutics (Fox Chase Cancer Center)
The Effect of Anti-Cancer Drugs on the Regulation of Cilia-Associated Pdgfralpha Signaling

Carissa Walkosak, Biological Sciences (UD/FCCC/Hofmann)
Lori Rink, Molecular Therapeutics (Fox Chase Cancer Center)
Elucidating the Novel Interaction of BCLAF1 and Bex1 in GIST Therapy
PATHOLOGY
Osama Mahmoud, Biological Chemistry (INBRE) (Wesley College)
Fady Gerges, Pathology (Green Clinics Laboratory)
Clinicopathologic Correlation with Early Detection of Anal Intraepithelial Neoplasia (AIN) with Emphasis on HPV Serotype In-situ Hybridization Analysis

MEDICAL LABORATORY SCIENCES
Jenny Lin, Applied Molecular Biology & Biotechnology (SF)
Mona Batish, Medical Laboratory Sciences
RNAs Found in Exosomes from Ewing's Sarcoma

Leon Elcock, Applied Molecular Biology & Biotechnology (INBRE)
Esther Biswas, Medical Laboratory Sciences
Engineering a Recombinant Plasmid Containing the malE Gene to Optimize Protein Purification

Hannah Lemacks, Chemistry/Biochemistry (NSF) (Western Carolina University)
Vijay Parashar, Medical Laboratory Sciences
Purification and Characterization of Cyclic-di-AMP Receptor CabPA of Streptococcus mutans

Tyler Findlay, Applied Molecular Biology & Biotechnology (GPS)
Esther Biswas, Medical Laboratory Sciences
Isolation of Chicken Immunoglobulin-Y for Application in Western Blot Analysis of Human ABCA4

Shefali Waghray, Biological Sciences (CPWBIO)
Esther Biswas, Medical Laboratory Sciences
Structural Analysis of DnaB Helicase of E.coli by Fluorescence Resonance Energy Transfer (FRET)

NURSING
Amy Jackson, Nursing (GPS)
Jennifer Saylor, Nursing
Transition to College Campus Living for Emerging Young Adults with Type 1 Diabetes: Sleep, Stress and Glycemic Control

KINESIOLOGY & APPLIED PHYSIOLOGY
Daniel Garcia, Mechanical Engineering (CBER NSF REU) (UTEP)
Elisa Arch, Kinesiology & Applied Physiology
Effect of Load Carriage on Ankle Stiffness

Ahlad Neti, Biomedical Engineering (INBRE)
Elisa Arch, Kinesiology & Applied Physiology
Multi-Segment Foot Model and Load/Unload Patterns

Amanda Deputy, Biology (INBRE) (Wesley College)
Thomas Buckley, Kinesiology & Applied Physiology
Evaluating the Relationship Between Anxiety and Performance on Concussion Testing in Collegiate Student Athletes

Stephen East, Exercise Science (S&E)
Thomas Buckley, Kinesiology & Applied Physiology
Anxiety and Depression Symptoms of Concussed Athletes Throughout Recovery and Implications for Subsequent Injury Risk

April Roeper, Psychology (INBRE) (Wilmington University)
Thomas Buckley, Kinesiology & Applied Physiology
Concussion Adversely Affects Mental Health Status of College Athletes
De'ShJuan Triplett, Kinesiology (INBRE) (Hampton University)
Jeremy Crenshaw, Kinesiology & Applied Physiology
The Effects of Sampling Duration on Standing Postural Sway in Children With and Without Cerebral Palsy

Andrew Mitchell, Biochemistry (S&E)
Matthew Hudson, Kinesiology & Applied Physiology
Using Duchenne Muscular Dystrophy Mice to Study the Cellular Pathway of Autophagy

Elizabeth Kaye, Biological Sciences (SF)
John Jeka, Kinesiology & Applied Physiology
Mechanisms of Balance Control during Walking

Alissa Strouse, Exercise Science (INBRE)
Thomas Kaminski, Kinesiology & Applied Physiology
Multiple Testing Reliability Analysis of the Y-Balance Test in a Healthy Population

Christina Mesbah, Applied Nutrition (S&E)
Shannon Lennon, Kinesiology & Applied Physiology
The Relationship Between Dietary Potassium Intake and Urinary Potassium Excretion

PHYSICAL THERAPY
Sarah Cipollini, Exercise Science (INBRE) & Ashley Pope, Health Behavior Science (S&E)
Anjana Bhat, Physical Therapy
The Effects of Dance on Social Smiles and Motor Performance in Children with Autism Spectrum Disorder

Lisa Levine, Exercise Science (S&E) & Madeline Tavino, Exercise Science (CPWPT)
Anjana Bhat, Physical Therapy
The Effects of Dance on Verbalization, Motor Planning, and Creativity in Children with Autism Spectrum Disorder

Elizabeth deBruin, Medical Diagnostics (DRI)
Michele Lobo, Physical Therapy
Does Postural Support Affect Reaching Ability Across Age in Infants with Motor Delays?

Ellie Montufar Wright, Biological Sciences (INBRE)
Michelle Lobo, Physical Therapy


The Effect of the Playskin Lift™ Exoskeletal Garment on Reaching Abilities in Children with Arthrogryposis Multiplex Congenita

Kayla Morrell, Biological Sciences (S&E)
Michele Lobo, Physical Therapy

The Relation between Gross Motor Development and Means-End Problem Solving in Infancy

Aaron Rubin, History Education (UDRF-REU)
Michele Lobo, Physical Therapy

A Novel Smart Garment for Tracking Infants’ Body Position: Validity and Reliability

Kimberly Tena-Diaz, Biological Sciences (GPS)
Michele Lobo, Physical Therapy

Testing the Reliability and Validity of the Novel Means-End Problem Solving Assessment Scale

Dara Priester, Actuarial Science (INBRE)
Susanne Morton, Physical Therapy

Using Transcranial Direct Current Stimulation to Enhance Learning of a New Walking Pattern

Timothy Gouge, Neuroscience (INBRE)
Darcy Reisman, Physical Therapy

Factors Influencing Step Activity After Stroke

Kyle Ball, Athletic Training (INBRE)
Karin Grävare Silbernagel, Physical Therapy

Reliability of Continuous Shear Wave Elastography (cSWE) at the Patellar Tendon

Claire Hollyer, Exercise Science (INBRE)
Karin Grävare Silbernagel, Physical Therapy

Changes in Running Mechanics in Patients with Achilles Tendinopathy Throughout a 30-Minute Run

Samantha Hornsby, Exercise Science (CPWPT)
Karin Grävare Silbernagel, Physical Therapy

Differences in Loading Patterns Between Walking and Running in Patients with Achilles Tendinopathy

Luke Tucker, Biomedical Engineering/Biomechanics (CBER NSF REU) (NCSU)
Karin Grävare Silbernagel, Physical Therapy

The Effect of Wedging on Weight Bearing and Muscle Activity with Ambulating in a Walking Boot

Macy Oteri, Exercise Science (INBRE)
Megan Sions, Physical Therapy

Exploration of Factors Related to Fall Risk among Adults with Lower-Limb Loss

BEHAVIORAL HEALTH & NUTRITION

Akeem Predeoux, Biological Sciences (INBRE) (DSU)
Sheau Chai, Behavioral Health & Nutrition

TBA
Lena Ravenell, Biological Sciences (INBRE) (DTCC)  
Sheau Chai, Behavioral Health & Nutrition  
*Effect of Fructose on Flow-Mediated Dilation and Pulse Wave Velocity in Older Adults*

Nicole Barish, Health Behavior Science (S&E)  
Sheau Ching Chai, Behavioral Health & Nutrition  
*The Effects of Whole Grape Consumption on Emotion and Cognition in Postmenopausal Women*

Melissa Learish (SLS) & Ashley Steinbrecher (SLF), Health Behavior Science  
Iva Obrusnikova, Behavioral Health & Nutrition  
*Promoting Independence and Health among Adults with Intellectual Disabilities*

Ivy Kahete, Medical Diagnostics (INBRE)  
Shannon Robson, Behavioral Health & Nutrition  
*Examining the Relationship Between High Energy Dense Foods and Food Security in Mothers*

**Session II**  
10:15-11:45am  
(Biological Sciences, Chemistry & Biochemistry, Delaware Biotechnology Institute)

**BIOLOGICAL SCIENCES**

Daniel Morreale, Biological Sciences (Biological Sciences)  
Fidelma Boyd, Biological Sciences  
*Investigating the Role of CosR in the Osmotic Stress Response of the Halophile Vibrio parahaemolyticus*

Sylvia Okafor, Forensic Biology (INBRE) (DSU)  
Harbinder Dhillon, Biology (DSU)  
*Assessing the Behavioral and Cognitive Abilities of an Anatomically Reversed Mutant*

Arsh Singh, Biology (INBRE) (DSU)  
Harbinder Dhillon, Biology (DSU)  
*TBA*

Stephan Geneus, Neuroscience (LEARN Scholars) (Lafayette University)  
Melinda Duncan, Biological Sciences  
*Difference in Inflammatory Cytokine Expression in the Lens of Young and Old Mice 24 Hours Post Cataract Surgery*

Erin Jackson, PVAB (INBRE)  
Melinda Duncan, Biological Sciences  
*The Role of Fibronectin in Post Cataract Surgery Inflammation*

Nicole Rossi, Biological Sciences (Biological Sciences)  
Melinda Duncan, Biological Sciences
Does Alpha V Beta8 Integrin Influence Post Cataract Surgery Inflammation

Abigail Dela Paz, Biomedical Engineering (S&E)
Randall Duncan, Biological Sciences

Pulsatile Electromagnetic Fields Regulate Bone Integrity Through Activation of Voltage Sensitive Calcium Channels

Madeline McGhee, Biochemistry (INBRE)
Randall Duncan, Biological Sciences

Load-induced Cellular Crosstalk Between Prostate Cancer Cells and Osteocytes in Bone Metastasis

Ryan Skinner, Biomedical Engineering (CPWBIO)
Randall Duncan, Biological Sciences

PEG-RGDS Stiffness Determines Chondrocyte Sensitivity to Osmolarity via TRPV4 Regulation

Aaliyah Coles, Neuroscience (INBRE)
Deni Galileo, Biological Sciences

The Effects of Exosomal L1CAM on Glioblastoma Stem and Non-stem Cell Motility

Michaela Scanlon, Neuroscience (Biological Sciences)
Deni Galileo, Biological Sciences

The Influence of L1CAM Ectodomain on Motility of Glioblastoma Stem Cells In Vitro

Tiara White, Biology (INBRE) (DSU)
Michael Gitcho, Biology (DSU)

TBA

Caitlin Dull, Chemistry/Biochemistry (NSF) (Shippensburg University)
Tom Hanson, Biological Sciences

Are Outer Membrane Vesicles Involved in the S(0) Metabolism of Chlorobaculum Tepidum?

Jeremy King, Biological Sciences (Biological Sciences)
Alenka Hlousek-Radojcic, Biological Sciences

Do “I” Look Thin Enough? : Developing a Beginner-Friendly Technique for Microscopy Sample Preparation

Needson Cadeau, Biological Sciences (McNair)
Aimee Jaramillo-Lanbert, Biological Sciences

Examination of Topoisomerase II SUMOylation in Meiosis C. Elegans Males

Gavin Keefe, Biological Sciences (Biological Sciences)
Aimee Jaramillo-Lambert, Biological Sciences

Investigating the Role of MRE-11 in the TOP-2 Pathway During Meiosis in C. elegans

Alexander Burris, Biology (INBRE) (DSU)
Hwan Kim, Biology (DSU)

TBA

Francisco Hernandez, Biological Sciences (GPS)
Salil Lachke, Biological Sciences
Investigation of RNA Polymerase II Elongation Factor Elf2 Regulation by the Cataract-linked RNA-binding Protein Celf1 in Mouse Lens Development

Emily Paglione, Biomedical Engineering (CPWBIO)
Salil Lachke, Biological Sciences
The Cataract-Linked Gene Tdrd7 Mediates Control of Key Transcripts in the Lens

Juan Ruiz, Biological Sciences (INBRE)
Salil Lachke, Biological Sciences
Investigation of New Biomarkers for Mammalian Eye Development

Bailey Weatherbee, Biological Sciences (Stetson)
Salil Lachke, Biological Sciences
The Cataract-associated RNA-Binding Protein Celf1 Post-transcriptionally Controls the Key Regulator Pax6 in Lens Development

Anthony Amalfitano, Neuroscience (GPS)
Gary Laverty, Biological Sciences
Tetrahymena TRP Homolog Response to Noxious Cold Stimuli

Yessica Martinez, Biology (INBRE) (DSU)
Hakeem Lawal, Biology (DSU)
The Effect of Deficits in Central Acetylcholine Release in the Regulation of Synaptic Activity in Drosophila

Kamaya Jackson, Biology (INBRE) (DSU)
Karl Miletti, Biology (DSU)
CD44-Mediated Regulation of Transcription Factors Gene Expression

Jalen Wilcher, Biological Sciences (INBRE) (DSU)
Karl Miletti, Biology (DSU)
Optimization of a ChIP Assay to Assess the wt CD44-ICD Binding to the MMP9 Gene Promoter

Matthew Bott, PVAB (INBRE)
Ramona Neunuebel, Biological Sciences
Designing a Method of Bio-orthogonal Labelling to Track the Translocation of Legionella pneumophila Effector Proteins During Infection

Andre Cunningham, Biological Sciences (Biological Sciences)
Ramona Neunuebel, Biological Sciences
Identifying Bacterial Virulence Factors that Target Host Vesicular Trafficking

Ryan Wood, Biological Sciences (CPWBIO)
Anja Nohe, Biological Sciences
The Role of BMP Signaling in Stem Cell Differentiation to Treat Osteoporosis

Alice Wu, Biological Sciences (CPWBIO)
Shawn Polson, Biological Sciences
Analyzing the Relationship Between Microbiome and Disease in the Eastern Oyster

Thomas Swayne, Biochemistry (CPWBIO)
Karl Schmitz, Biological Sciences

Crystallization and Characterization Of Mutant E. coli ClpS Constructs

Nicholas Finelli, Biological Sciences (Biological Sciences)
Erica Selva, Biological Sciences

TBA

Mia Moore, Medical Diagnostics (CPWBIO)
Erica Selva, Biological Sciences

Cell Signaling, Development, and Cell Biochemical Aspects Through the Analysis of Oligomerization of Wntless

Austin Lonski, Biological Chemistry (INBRE) (Wesley College)
Kevin Shuman, Biology (Wesley College)

Investigation of the Effect of Opioids on S. aureus

Omasan Uyebi, Biology (INBRE) (Wesley College)
Kevin Shuman, Biology (Wesley College)

Detecting the Presence of Microbes Naturally Occurring on Delaware Produce

Jeremy Wirick, Biological Chemistry (INBRE) (Wesley College)
Kevin Shuman, Biology (Wesley College)

Influence of Common Opioids on E. Coli Growth

Chelsea Lee, Applied Molecular Biology & Biotechnology (GPS)
Jia Song, Biological Sciences

MicroRNA-31 Regulation of Eve Impacts Skeletogenesis

Michael Testa, Biological Sciences (INBRE)
Jia Song, Biological Sciences

TBA

Hunter Angle, Chemistry/Biochemistry (NSF) (Chestnut Hill College)
Jessica Tanis, Biological Sciences

Identifying Where the C Type Lection CLEC-1 is Expressed and Localized in C. elegans Using Florescent Reporters

Charlotte Leslie, Biological Sciences (CPWBIO)
Jessica Tanis, Biological Sciences

Determining the Cellular Expression Pattern of EPsiN homolog EPN-1 in Caenorhabditis elegans

Elizabeth Whelahan, Biological Sciences (Biological Sciences)
Jessica Tanis, Biological Sciences

Defining the Localization of Epsin Membrane Protein EPN-1 at the C. elegans Neuromuscular Junction
Gadriel Guevara, Biology (EPSCoR) (DSU)
Murali Temburni, Biological Sciences (DSU)
*Molecular Mechanisms of Astrocyte-Neuron Interactions in the Development of Synchronized Activity in Neuronal Networks*

Pallavi Kulkarni, Neuroscience (INBRE)
Shuo Wei, Biological Sciences
*Investigating the Role of ADAM9 in Colorectal Cancer*

Anika Tasnim, Biological Sciences (INBRE)
Yvette Yien, Biological Sciences
*Role of CLPX in the Heme Synthesis Pathway*

Xuedi Zhang, Biological Sciences (Biological Sciences)
Yvette Yien, Biological Sciences
*Characterization of Fam210b Protein-Protein Interactions with Mitochondrial Heme Synthesis Enzymes*

**CHEMISTRY & BIOCHEMISTRY**

Brian Lindner, Chemistry (Plastino)
Eric Bloch, Chemistry & Biochemistry
*Synthesis and Characterization of Charged Molecular Cages*

Hunter Richman, Chemistry/Biochemistry (NSF) (Indiana University-South Bend)
Eric Bloch, Chemistry & Biochemistry
*Understanding the Kinetics and Thermodynamics of Post-synthetic Ligand Exchange in Cu(II) Metal-Organic Cages*

William Johnston, Chemistry/Biochemistry (NSF) (Fairmont State University)
Karl Booksh, Chemistry & Biochemistry
*Laser-Induced Breakdown Spectroscopy (LIBS) for Determining Geographical Origin of Rosewood*

Melissa Postlewaite, Chemistry (Nucleus)
Karl Booksh, Chemistry & Biochemistry
*Can We Deliver One Grain of Sand at a Time to Obtain Ramen Spectra?*

Michael Moreno, Biochemistry (Hofmann)
William Chain, Chemistry & Biochemistry
*Efforts Toward a Total Synthesis of Premnalatifolin A*

Kylea Lankford, Biology (INBRE) (Wesley College)
Malcolm D'Souza, Chemistry (Wesley College)
*Investigation of 2,2,3,3,4,4,4-Heptafluorobutyl Chloroformate in a Variety of Aqueous Organic Solvents*

Rachel Dunscomb, Chemistry (Plastino)
Cecil Dybowski, Chemistry & Biochemistry
*Bridging Textile Conservation and Chemistry: Chemical Analysis of Lake Crystals*
Clare Lipscombe, Biochemistry (INBRE)
Joseph Fox, Chemistry & Biochemistry
*Synthesis of Functional, Asymmetric Tetrazines via Palladium Catalyzed Cross-Couplings of Organostannanes and Thioether Tetrazines*

Tyler Reagle, Biochemistry (S&E)
Joseph Fox, Chemistry & Biochemistry
*Layered Hyaluronic Acid Microsphere Scaffolds Enabled by Rate-Limiting Diffusion and Rapid Bioorthogonal Cycloaddition for Proximity-Guided Cell Differentiation*

Julianna Follmar, Biochemistry (Hofmann)
Catherine Grimes, Chemistry & Biochemistry
*Synthesis of Fluorinate MDP Probes for NMR Binding Assay and NOD2 Protein Expression*

Thomas Harmon, Biochemistry (S&E)
Catherine Grimes, Chemistry & Biochemistry
*Total Synthesis of Muramyl Dipeptide Disaccharides and Dimers*

Daniel Scanlon, Biochemistry (S&E)
Catherine Grimes, Chemistry & Biochemistry
*Characterization of Bacterial Cell Wall Fragment Recognition by the Yeast Protein CYR1p*

Morgan Gobin, Chemistry/Biochemistry (NSF) (University of Hartford)
Sharon Neal, Chemistry & Biochemistry
*Dynamic and Steady-State Fluorescence Characterization of Water-Equilibrated Octanol using Derivatized Anthracene Probes*

Deanna Greco, Chemistry/Biochemistry (NSF) (Catholic University of America)
Juan Perilla, Chemistry & Biochemistry
*Elucidating the Molecular Mechanism by Which the Chlamydia trachomatis Inca Protein Promotes Membrane Fusion Using Molecular Dynamics Simulations*

Phoebe Hertler, Chemistry (Plastino)
Joel Rosenthal, Chemistry & Biochemistry
*Synthesis of Cobalt Tetrapyrrole Towards Use in O2 Reduction*

Roxanna Fouladi, Biochemistry (Nucleus)
Sharon Rozovsky, Chemistry & Biochemistry
*Characterization of Human ATPase p97 - a Key Contributor to the Degradation of Misfolded Proteins*

Kelsi Walker, Quantitative Biology (McNair)
Sharon Rozovsky, Chemistry & Biochemistry
*Facile and Robust Protein Engineering for Difficult Targets*

Sophia Worthington-Kirsch, Chemistry/Biochemistry (NSF) (Ursinus College)
Sharon Rozovsky, Chemistry & Biochemistry
*The Gateway to Destruction: Characterizing p97's Role in Protein Degradation*
Ruth Mandel, Chemistry (Heitzer)
Andrew Teplyakov, Chemistry & Biochemistry
Controlling Surface Modification via Low Coverage Mixed Azide/Alkyl Self-Assembled Monolayers on Au(111)

Dominick Guida, Chemical Engineering (S&E)
Klaus Theopold, Chemistry & Biochemistry
Optical Properties of Various Two-Dimensional Layered Lead Halide Perovskites

Alana Duke, Biochemistry (GPS)
Mary Watson, Chemistry & Biochemistry
Progress towards a Stereospecific, Nickel-Catalyzed Suzuki-Miyaura Cross-Coupling of Secondary Acetates using Ligand Free Conditions

Aaron Spahr, Chemistry/Biochemistry (NSF) (Lebanon Valley College)
Don Watson, Chemistry & Biochemistry
Progress Towards the Synthesis of Chiral-NHC Ligands and Their Use in Asymmetric Silyl-Kumada Reactions

Jedidiah Chung, Chemistry (Plastino)
Zhihao Zhuang, Chemistry & Biochemistry
Development of Cell Penetrating Peptide Ubiquitin Probe

Rebecca DiBona, Biochemistry (S&E)
Zhihao Zhuang, Chemistry & Biochemistry
Generation and Utilization of ISG15 Probes for the Identification of Intracellular Interacting Partners

Alyssa Paparella, Chemistry/Biochemistry (NSF) (Sarah Lawrence College)
Zhihao Zhuang, Chemistry & Biochemistry
Generation of Photocrosslinking ISG15 Probe to Detect Intracellular Protein Interactions

Michelle Favichia, Biochemistry (GPS)
Neal Zondlo, Chemistry & Biochemistry
Research

Christine Kenney, Biochemistry (Plastino)
Neal Zondlo, Chemistry & Biochemistry
The Effect of Iodo- and Thiol-Substituted Phenylalanine on GFSFGG Gel Formation and Self-Assembly

Siyuan Xiang, Chemistry (GPS)
Neal Zondlo, Chemistry & Biochemistry
Detecting Orbital Interactions Between Methionine And Phenylalanine In Model Peptide

DELWARE BIOTECHNOLOGY INSTITUTE
Tiana Cooks, Engineering Physics (INBRE) (DSU)
Jeffrey Caplan, DBI
Characterization of HaloTag Fluorescent Ligands in Plant and Animal Model Systems

Session III  12:00-1:30pm

AGRICULTURE & NATURAL RESOURCES
Fedrica Williams, Plant Science (EPSCoR) (DSU)
Venugopal Kalavacharla, Agriculture & Natural Resources (DSU)
Towards an Integrated Understanding of Histone Modification and Gene Expression in Common Bean (Phaseolus Vulgaris L.) Under Drought Stress

COOPERATIVE EXTENSION
Laura Sahd, Human Nutrition (Extension Scholar)
Breanna Banks, Cooperative Extension
Impacting Leadership and Health Behaviors Among Delaware Teens

Logan Rash, Health Behavior Sciences (Extension Scholar)
Kristin Cook, Cooperative Extension
CAMP – Community, Advocacy, Mentoring, and Positivity

Liana Williams, Applied Nutrition (Extension Scholar)
Rene Diaz, Cooperative Extension
Sussex County 4-H

Sarah Russel, Dietetics (Extension Scholar)
Snider Sue, Cooperative Extension
Choose Health: Food, Fun and Fitness Youth Program

ANIMAL & FOOD SCIENCES
Davisha Brown, (Envision, NIFA Grant) (Lincoln University)
Behnam Abasht, Animal & Food Sciences
Relationship Between High Feed Efficiency and Occurrence of Wooden Breast Disease in Modern Broiler Chickens with a Focus on Metabolic Dysregulation

Adrianna Szostek, PVAB (CANR Unique Strengths)
Robert Alphin & Eric Benson, Animal & Food Sciences

*Evaluation Of Open Source Affordable and Portable Vehicle Undercarriage Decontamination Station*

Nakya Robinson, (Envision, NIFA Grant) (UMES)
Ryan Arsenault, Animal & Food Sciences

*Immune Profiling of the Chicken Gastrointestinal Tract*

Monika Farmer, PVAB (Envision, USDA)
Eric Benson & Robert Alphin, Animal & Food Sciences

*Improving Cold Weather Poultry Disease Response*

Jacklyn Rind, PVAB (Envision, USDA)
Eric Benson & Robert Alphin, Animal & Food Sciences

*Evaluation of Alternative Lamp and Dimmer Lighting Technologies for the Poultry Industry*

Kathryn Babiarz, PVAB (S&E)
Amy Biddle, Animal & Food Sciences

*An In Vitro Assessment of the Effects of Phenylbutazone on the Equine Gastric Microbiome*

Favour Chibueze, (Envision, NIFA Grant) (Lincoln University)
Amy Biddle, Animal & Food Sciences

*Estimation of Bacterial Populations in Response to a Poultry Litter Ammendment*

Rebecca Davis, Biological Sciences (McNair)
Amy Biddle, Animal & Food Sciences

*Determining Geographic Spatial Trends of Cyathostomin and Bacterial Co-Occurrence*

Samantha Diaz, PVAB (Envision, NIFA Grant)
Amy Biddle, Animal & Food Sciences

*The Equine Microbiome Project: Age and the Equine Microbiome*

Gisselle Garcia, PVAB (CANR Summer Institute)
Amy Biddle, Animal & Food Sciences

*An In Vitro Assessment of the Effects of Firocoxib on the Equine Gastric Microbiome*

Luci Mehr, PVAB (CANR Unique Strengths)
Amy Biddle, Animal & Food Sciences

*In Vitro Analysis of the Effect of a Nutritional Supplement on the Equine Gut Microbiome*

Nicole Owens, Histotechnology (INBRE) (DTCC)
Amy Biddle, Animal & Food Sciences

*In Vitro Analysis of the Effect of NSAIDS on the Equine Gut Microbiome*

Anthony Pompetti, Biological Science Education (S&E)
Amy Biddle, Animal & Food Sciences

*Tracking Recovery of Small Strongylo Population and Optimization of in Vitro Assay*

Tesa Stone, PVAB (GPS) & Sarah Clarke PVAB (SF)
Amy Biddle, Animal & Food Sciences
*An In Vitro Assessment of the Effects of Flunixin Meglumine on the Equine Gastric Microbiome*

Juliann Callan, PVAB (S&E)
Tanya Gressley, Animal & Food Sciences
*Evaluating Digestibility of Rumen Protected Choline in Dairy Cows*

Gabriella Castillo, PVAB (Envision, NIFA Grant)
Tanya Gressley, Animal & Food Sciences
*Evaluating Blood Metabolite Response to Rumen Protected Choline in Dairy Cows*

Shane Cronin, PVAB (INBRE)
Tanya Gressley, Animal & Food Sciences
*Developing a Rumen Fluid-free In Vitro System to Predict Rumen Urea Digestion*

Jordan Erickson, Biological Sciences (McNair)
Dallas Hoover, Animal & Food Sciences
*Production of Glycerol by Brewer’s Yeast*

Abigail Chambers, (Envision, NIFA Grant) (UMES)
Rolf Joerger, Animal & Food Sciences
*Susceptibility of Soil-Associated Listeria monocytogenes to Antimicrobials*

Eddi Blanco, Communications (Extension Scholar/ENVISION) (DSU)
Kali Kniel, Animal & Food Sciences
*Using Diginarratives to Convey Information Regarding Produce Safety and Water Irrigation*

Alyssa Kelly, Food Science (CANR Unique Strengths)
Kali Kniel, Animal & Food Sciences
*A ‘One Health’ Approach to Risk Reduction for Policy Development in Produce Safety*

Lindsey Steele, (Envision, NIFA Grant) (DSU)
Limin Kung, Animal & Food Sciences
*TBA*

Alexis Doon, (Envision, NIFA Grant) (UMES)
Brian Ladman, Animal & Food Sciences
*Evaluation of Current Avian Respiratory Virus Vaccination Programs*

Madison Breske, Animal Science (S&E)
Hong Li, Animal & Food Sciences
*Effects of Enrichment on Broiler Chicken Activity Levels*

Amanda Paul, PVAB (Envision, NIFA Grant)
Hong Li, Animal & Food Sciences
*Evaluation of Broiler Activities Affected by Presence of Windows*

Peyton Szymborski, PVAB (CANR Unique Strengths)
Hong Li, Animal & Food Sciences
*Thermal Environmental Stress of Broilers During Transportation Affected by Climate Condition*

Jasmine Braxton, (Envision, NIFA Grant) (UMES)
Mark Parcells, Animal & Food Sciences
*Examination of the Pp38/Pp24 Proteins of Marek’s Disease Virus on Innate Immune Evasion*

Erin Gollhardt, Applied Molecular Biology & Biotechnology (S&E)
Mark Parcells, Animal & Food Sciences
*Cloning and Expression of the Chicken KIN17 Homolog and its Role in Increased Marek’s Disease Virus Virulence*

Tynasia Milfort, Biology (CANR Summer Institute) (St. Augustine’s University)
Mark Parcells, Animal & Food Sciences
*Innate sensing of Marek’s Disease Virus (MDV) Infection*

Matthew Bonett, ANFS (S&E)
Carl Schmidt, Animal & Food Sciences
*Metabolic Impact of Taurine on Human Embryonic Kidney Cells*

Victoria Dortenzio, PVAB (CANR Summer Institute)
Carl Schmidt, Animal & Food Sciences
*Hy-Line Layers*

Kathryn Ellwood, ANFS (S&E)
Carl Schmidt, Animal & Food Sciences
*Impact of Heat Stress on Human Embryonic Kidney Cell Balance*

ENTOMOLOGY & WILDLIFE ECOLOGY
Susannah Halligan, Wildlife Ecology Conservation (CANR Summer Institute)
Jeffery Buler, Entomology & Wildlife Ecology
*Delaware Waterfowl Tracker*

Mark Pacheco, Wildlife Ecology & Conservation (CANR Unique Strengths)
Jeffrey Buler, Entomology & Wildlife Ecology
*Mapping Fall Stopover Sites for Migrating Birds Around the Great Lakes*

Christian Stoltz, Entomology (S&E)
Deborah Delaney, Entomology & Wildlife Ecology
*Hive Notes: Integrating Technology to Evaluate Honey Bee Colonies Across Geographic Locations*

Samantha McGonigle, Wildlife Ecology & Conservation (NSF EPSCOR)
Kyle McCarthy, Entomology & Wildlife Ecology
*Analysis of Pesticide Residue in Deer Pellets in Urban, Agricultural, and Protected Areas in Delaware*

Alec Nixon, Wildlife Ecology & Conservation (CANR Unique Strengths)
Kyle McCarthy, Entomology & Wildlife Ecology
The Sweet Smell of Scat: Identifying Species by Their Feces Using Gas Chromatography-Mass Spectrometry
Garrison Piel, Entomology (S&E)
Doug Tallamy, Entomology & Wildlife Ecology
Using Artificial Caterpillars to Monitor Bird Foraging

ENVIRONMENTAL SCIENCE
Sydney Hall, Environmental Science (NSF EPSCOR) (Wesley College)
Stephanie Stotts, Environmental Science (Wesley College) & Mike Mensinger, Environmental Scientist, (DE National Estuarine Research Reserve)
Microplastics in the St. Jones River, Delaware: An Examination of the Relationship Between Concentration and Proximity to the City of Dover

APPLIED ECONOMICS & STATISTICS
Cathryn Soriano, Natural Resource Management (GPS)
Joshua Duke, Applied Economics & Statistics
The Economics of Ecosystem Services

Julia Kesselring, Food Science, (CONSERVE)
Kent Messer, Applied Economics & Statistics
A Rose by Any Other Name: Branding Name Field Experiments for Recycled Water

Stephen Wemple, Environmental & Resource Economics (CANR Unique Strengths)
Kent Messer, Applied Economics & Statistics
Reducing Household Nutrient Run-off - Power of Testimonial and Technology Persistence

Julia Parker, Economics (NSF EPSCOR)
Kent Messer, Applied Economics & Statistics
Evaluating Group Preferences for Recycled Water Consumption

Erick Tepale, Computer Science (CEAE)
Kent Messer, Applied Economics & Statistics
Computer Programming for Economic Experiments

PLANT & SOIL SCIENCES
Seth Rickey, Plant Science (CANR Unique Strengths)
Harsh Bais, Plant & Soil Sciences
Evasion of Plant Host Immunity by Opportunistic Human Pathogens

Danielle Mikolajewski, Plant Science (Center for Food Systems & Sustainability)
Nicole Donofrio, Plant & Soil Sciences
Disruption of the Genome of Rice Blast to Identify Genes Involved in Production of Reactive Oxygen Species.

Gabrielle DeAngelis, Environmental Science (S&E)
Jeffry Fuhrmann, Plant & Soil Sciences
Combining Rhizobiophages and Superior Bradyrhizobia to Enhance Soybean Productivity
Kona Haramoto, Environmental Science (NSF EPSCOR)
Jeffrey Fuhrmann, Plant & Soil Sciences
Enhanced Sustainable Soybean Production using Rhizobiiophages

Matthew Erickson, Biological Sciences (CPWBIO)
Pamela Green, Plant & Soil Sciences
Analysis of miRNAs and their Targets During Early Development in the Atlantic Horseshoe Crab (Limulus polyphemus)

Nikhil Chari, Chemical Biology (CANR Summer Institute) (Univ. of California-Berkeley)
Angelia Seyfferth, Plant & Soil Sciences
Impacts of Silicon on Arsenic Dynamics in Flooded Rice Paddy Soil

Amelia Griffith, Biochemistry (Plastino)
Angelia Seyfferth, Plant & Soil Sciences
Combined Impacts of Arsenic and Magnaporthe oryzae on Rice Stress and Alleviation by Silicon

Kendall McCoach, Plant Science (Center for Food Systems & Sustainability)
Angelia Seyfferth, Plant & Soil Sciences
Burning Conditions for Biochar

Monica Elavarthi, Chemical Engineering (NSF EPSCOR)
Donald Sparks, Plant & Soil Sciences
Application of Synchrotron Technology on Phosphorus Contaminated Soil

Kathryn Holden, Biological Sciences (NSF EPSCOR)
Donald Sparks, Plant & Soil Sciences
Biogenic Iron Oxides

Sarah Kubat, Plant Science (CANR Unique Strengths)
Erin Sparks, Plant & Soil Sciences
Determining the Regulatory Relationship Between NLP7 and DREB Transcription Factors Under Well-Watered and Water Limiting Conditions

Aubrey Inkster, Plant & Soil Sciences/Anthropology (NSF EPSCOR)
Tara Trammell, Plant & Soil Sciences
Evaluating Vegetation and Soil Seed Banks in Newark Forest Fragments

MARINE STUDIES
Margaret Dolan, Marine Biology (S&E)
Jonathan Cohen, Marine Studies
The Effect of Algicide on the Stress Response in Estuarine Species

Audrey Ostroski, Marine Science (S&E)
Danielle Dixson, Marine Studies
The Effect of Predicted Ocean Acidification Levels on Feeding Rates of the Reef Cleaner Shrimp, Stenopus hispidus

Conner McCrone, Marine Science (S&E)
Arthur Trembanis, Marine Studies

From Deep Learning To Citizen Science- Developing and Implementing Strategies for Analyzing Large Imagery Datasets.

Grant Otto, Mechanical Engineering (S&E)
Arthur Trembanis, Marine Studies

Dynamic, Power, and GPS Upgrades to an Autonomous Kayak to Improve Side-Scan Sonar Sensing Resolution and Capabilities

GEOLoGICAL SCIENCES
Michelle Hallenbeck, Biological Sciences (Nucleus)
Clara Chan, Geological Sciences

Comparative Genomic Analysis of Bacterial Isolates from Acid Mine Drainage

GEOGRAPHY
Haley Will, Geography (NSF EPSCOR)
Martin Clifford, Geography

The Large Scale and Small Scale Gold Mining Effects on Climate Change

Sam Weiskopf, Geography (NSF EPSCOR)
Daniel Leathers, Geography

Improving Estimates of Extreme Precipitation Events In Delaware Using Mesonet Data

George Watson, Environmental Science (NSF EPSCOR)
Lindsay Naylor, Geography

The Effect of Silica Amendments on Rice Straw Throughout the Growing Season

HUMAN ECOLOGY
Pedro Rosario, Biology (INBRE) (DSU)
Junglim Lee, Human Ecology, Food Science & Biotechnology (DSU)
TBA

Damyen Ingram, Forensic Biology (INBRE) (DSU)
Gulnihal Ozbay & Alberta Aryee, Human Ecology/Agriculture & Natural Resources (DSU)
TBA

PUBLIC & ALLIED HEALTH SCIENCES
Naomi Crawford, Biology (INBRE) (DSU)
Adam Kuperavage, Public & Allied Health Sciences (DSU)

Analyzing Neuromuscular Efficiency During Static Control of Center of Mass in Relation to Dynamic Control of Center of Mass During Gait
Jonae Savage-Hall, Forensic Biology (INBRE) (DSU)
Christopher Mason, Public & Allied Health Sciences (DSU)
TBA

HUMAN DEVELOPMENT & FAMILY SCIENCES
Nicole Mejia, Elementary Education (McNair)
Ann Aviles, Human Development & Family Sciences
¿Y Dónde Está Mi Gente? Using Youth Participatory Action Research (YPAR) to Cultivate Culturally Relevant Curriculum that Supports Traditionally Underserved Students

Makenzie Mullen, Early Childhood Education (NUCLEUS)
Jennifer Fox, Human Development & Family Sciences
Developing and Testing Microbe/Bacteria Curriculum

Anthony Drzal, Human Services (SLS)
Brian Freedman, Human Development & Family Studies
Summer CLSC: Preparing Students with Intellectual Disabilities for Life After High School

Allison Michalowski, Psychology (INBRE)
Allison Karpyn, Human Development & Family Sciences
Developing a Community Collective Impact Fruit and Vegetable Program Evaluation

EDUCATION
Adaeze Ashiedu, Psychology (McNair)
Roberta Golinkoff, School of Education
The Effect of Low Socioeconomic Status on Language Development in Children

Samantha Seidenberger, Elementary Education (INBRE)
Roberta Golinkoff, School of Education
Puzzle-Play Frequency and Socioeconomic Status in the Development of Spatial Assembly

Leighton Trimarco, Public Policy (SPPA-PPF)
Kelly Sherretz, Institute for Public Administration, School of Public Policy & Administration
Utilizing Digital Platforms to Enhance Community Outreach and Engagement

ART
Emma Gaedje, Visual Communication (SF)
Martha Carothers, Art
From Shelf to Screen: The Search for Research

BUSINESS ADMINISTRATION
Michael Caserta, Marketing (AHSS)
Jennifer Gregan, Business Administration
How Useful is Marketing in Political Campaigns?

Charlotte Jenkins, Business Management/Marketing (SLF)
Anu Sivaraman, Business Administration
UDance Database

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

BIOMEDICAL ENGINEERING
Stephen Ioele, Biomedical Engineering (S&E)
Emily Day, Biomedical Engineering
Delivery of miR-34a to Triple Negative Breast Cancer Cells via Layer-by-Layer Assembled PLGA Nanoparticles

Rachel O’Sullivan, Biomedical Engineering (Vince Baro Scholarship/S&E)
Emily Day, Biomedical Engineering
Imaging Nanoparticle Distribution in Lung Tissue Explants

Justin Bartell, Biomedical Engineering/Biochemistry (CBER NSF REU) (FSU)
Dawn Elliott, Biomedical Engineering
The Quantification of Error Associated with Incremental Correlation in 2D Digital Image Correlation and Methods to Reduce this Error for Tissue Analysis

William Robinson, Exercise Science (INBRE)
Dawn Elliott, Biomedical Engineering
Using Osmotic Loading to Study the Role of Fluid Flow in the Mechanical Response of Rat Tail Tendon

Mary Athanasopoulos, Biomedical Engineering (Vince Baro Scholarship/S&E)
Jason Gleghorn, Biomedical Engineering
Development of a Microfluidic ex vivo Lung Culture Platform for the Study of Mechanical Ventilator Induced Lung Injury

Isabel Carulli, Biomedical Engineering (McNair)
Jason Gleghorn, Biomedical Engineering
Molecular Cloning of Growth Factors Crucial For Lung Development

Brea Chernokal, Biomedical Engineering (GPS)
Jason Gleghorn, Biomedical Engineering
Mapping the Morphogenesis of the Developing Vasculature in an Embryonic Chicken Model

Amanda Dang, Biomedical Engineering (CBER NSF REU) (University of Michigan)
Jason Gleghorn, Biomedical Engineering
Investigating the Role of Fluid Flow and EndMT in the Self-assembly of 3D Vascular Architectures

Mercedes Dayan, Biological Sciences (NUCLEUS)
Jason Gleghorn, Biomedical Engineering
The Role of Stretch-Induced Mechanotransduction in the Airway Epithelium of the Developing Lung

Caitlin Grasso, Biomedical Engineering (GPS)
Jason Gleghorn, Biomedical Engineering

Developing Automated Processing Algorithms for Large Sets of 3D Droplet Images for Virology Experiments

Kaitlyn Krewson, Biomedical Engineering (GPS)
Jason Gleghorn, Biomedical Engineering

Investigating the Role of FGF-7 on the Growth of Embryonic Mouse Lungs

Isabel Navarro, Chemical Engineering (GPS)
Jason Gleghorn, Biomedical Engineering

Design of Microfluidic Systems to Investigate Virus-Host Interactions

Nicholas Pautler, Biomedical Engineering (SF)
Jason Gleghorn, Biomedical Engineering

Toward Single Cell Encapsulation in Shear-Thinning Droplets for High-Throughput Disease Models

Olivia Powell, Mechanical Engineering (McNair)
Jason Gleghorn, Biomedical Engineering

Developing a Passively-Driven Storage Platform for Droplet-Based Microfluidic Virology Experiments

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

Sex-Linked Reversibility of Endothelial to Mesenchymal Transition in Human Neonatal Pulmonary Cells

Diana Renteria, Biological Engineering. (CBER NSF REU) (MIT)
Jason Gleghorn, Biomedical Engineering

Understanding the Role of the Physical Extracellular Microenvironment in Leukemic Stem Cell Quiescence

Laurel Schappell, Biomedical Engineering (INBRE)
Jason Gleghorn, Biomedical Engineering

Quantifying the Role of Collagen and Elastin on the Mechanics of the Neonatal Mouse

Catherine Cooper, Cognitive Science (GPS)
Curtis Johnson, Biomedical Engineering

Magnetic Resonance Elastography of Adolescents Age 8-11

Elizabeth Dickinson, Biomedical Engineering (GPS)
Curtis Johnson, Biomedical Engineering

Brain Changes in Hockey Players Over the Course of a Season

Ray Duda, Biomedical Engineering (BMEG)
Curtis Johnson, Biomedical Engineering

Quantification of Individual Forearm Muscle Stiffness during Multiple States of Activation in Multi-Muscle MRE
Nana Marfo, Neuroscience (Hofmann)
Curtis Johnson, Biomedical Engineering
*Diffusion Tensor Imaging in Multiple Sclerosis*

Gabrielle Villermaux, Neuroscience/Applied Nutrition (DRI)
Curtis Johnson, Biomedical Engineering
*White Matter Tract Integrity Relates to Balance Performance in Pediatric CP*

Megan Smith, Biological Sciences/Political Science (INBRE) (University of Pittsburgh)
Megan Killian, Biomedical Engineering
*Visualizing Embryonic Expression of FGF-9/18 and Scleraxis mRNA in the Tendon-to-Bone Attachment*

Mario Soto, Industrial Microbiology (CBER NSF REU) (UPR)
Megan Killian, Biomedical Engineering
*Response of Tendon Fibroblasts to Modulated FGF Signaling*

Mark Ellsworth, Biomedical Engineering (DRI)
Christopher Price, Biomedical Engineering
*Dose-Dependent Effect of Zoledronic Acid on Equine Cartilage*

Brianna Hulbert, Biomedical Engineering (INBRE)
Christopher Price, Biomedical Engineering
*Effect of Zoledronic Acid on Chondrocyte Viability, Proliferation, Metabolism and Cell Cycle In Vitro*

Ben Maggio, Biomedical Engineering (INBRE)
Christopher Price, Biomedical Engineering
*Effects of Acute Impact Injury on Cartilage Explant Health*

Paul Rozzi, Mechanical Engineering (CBER NSF REU) (Cornell University)
Christopher Price, Biomedical Engineering
*Characterization of Articular Cartilage Mechanical Properties Following Extracellular Matrix Degradation*

Alison Wright, Biomedical Engineering (S&E)
Christopher Price, Biomedical Engineering
*Sliding-Induced Solute Transport into Enzymatically Degraded Articular Cartilage*

Rachel Marbaker, Mechanical Engineering/Mathematics (CBER NSF REU) (Lafayette College)
Fabrizio Sergi, Biomedical Engineering
*Double Stance Acceleration on Split Belt Treadmill as a Tool to Induce Locomotor Adaption*

Jonathan Stuchlik, Biomedical Engineering (S&E)
Fabrizio Sergi, Biomedical Engineering
*Calibration of Magnetic Resonance Elastography for Muscle Force and Stiffness Measurement*

**CHEMICAL & BIOMOLECULAR ENGINEERING**
Eric Wolfsberg, Chemical Engineering (NSF)
Maciek Antoniewicz, Chemical & Biomolecular Engineering
13C Metabolic Flux Analysis of E. coli Grown in Dense Colonies on Agar

Lencho Amente, Chemistry (GPS)
Douglas Buttrey, Chemical & Biomolecular Engineering

Vapor-Liquid Equilibrium in Isothermal Condition

Christine Castagna, Chemical & Biomolecular Engineering (Department of Energy)
Thomas H. Epps, III, Chemical & Biomolecular Engineering/Material Science & Engineering
Synthesis and Characterization of Single-ion Polymers for Lithium-ion Batteries

Sophia Freaney, Chemical Engineering (NSF)
Thomas H. Epps, III, Chemical & Biomolecular Engineering/Material Science & Engineering
Self-Assembly and Characterization of High-chi Fluorinated Block Polymer

Paula Pranda, Chemical & Biomolecular Engineering (NSF/S&E)
Thomas H. Epps, III, Chemical & Biomolecular Engineering/Material Science & Engineering
Engineering Lignin Inspired Compounds for Sustainable Polymer Applications

Justin Chernokal, Chemical Engineering (GPS)
Cathrine Fromen, Chemical & Biomolecular Engineering
Characterizing Macrophage Cell Signaling from the Phagocytosis of Degrading Nanoparticles

Daksh Jain, Chemical Engineering (S&E)
Catherine Fromen, Chemical & Biomolecular Engineering
Leveraging 3D Printing for Lung Model Replication Delivery

Azeem Sharief, Chemical Engineering (NECA)
Catherine Fromen, Chemical & Biomolecular Engineering
3D Printed Human Trachea Models for Deposition Studies

Kara Pelster, Chemical Engineering (SF/Schlumberger)
Eric Furst, Chemical & Biomolecular Engineering
Linear Viscoelastic Measurements of Polymer Solutions and Gels

Moujhuri Sau, Chemical Engineering (NSF-REU) (PSU)
Eric Furst, Chemical & Biomolecular Engineering
Phononic Metamaterials Assembled from Colloidal Building Blocks

Jihyuk Kim, Chemical Engineering (NSF-REU Interfacing Sustainable Energy & Materials) (Auburn University)
Arthi Jayaraman, Chemical & Biomolecular Engineering
PRISM Theory Studies to Contrast Solvent vs. Polymer Wetting-Dewetting Behavior in Polymer Nanocomposites

Emily Eastburn, Materials Science & Engineering (Pew Charitable Trusts) (Georgia Institute Technology)
April Kloxin, Chemical & Biomolecular Engineering/Materials Science & Engineering
Designing Collagen Mimetic Materials for Studies of Cell Migration
Derek Bischoff, Chemical Engineering (S&E)
Christopher Kloxin, Chemical & Biomolecular Engineering
Development of Synthetic Click Nucleic Acids for Biosensing Applications

Tessa Posey, Biomedical Engineering (NSF-REU Interfacing Sustainable Energy & Materials) (USC)
Christopher Kloxin, Chemical & Biomolecular Engineering
Peptide Synthesis and Assembly

Sydney Clasen, Chemical Engineering (NSF)
Kelvin Lee, Chemical & Biomolecular Engineering
Investigating the Role of Alternate Transcripts of DNA-Repair Genes in CHO Cell Line Stability

Alec Agee, Chemical Engineering (S&E)
Eleftherios Papoutsakis, Chemical & Biomolecular Engineering
Rational Design and Adaptive Evolution of E. Coli for Methylotrophy

Andrew Danielson, Chemical Engineering (DOE)
Dion Vlachos, Chemical & Biomolecular Engineering
Thiol-Promoted Catalytic Synthesis of Renewable Lubricant Base Oils with Biomass Derived 2-Alkylfurans and Ketones

Ben Fisher, Chemical Engineering (DOE)
Dion Vlachos, Chemical & Biomolecular Engineering
Optimization of HMF Production from Potato Peel Waste via Response Surface Methodology

Alexander Kuczykowski, Chemical Engineering (DOE)
Dion Vlachos, Chemical & Biomolecular Engineering
Selective Hydrodeoxygenation of Furfuryl Alcohol over Ultra-Low Loading Catalysts

Steven Kuntz, Computer Science (RAPID/S&E)
Dion Vlachos, Chemical & Biomolecular Engineering
Identification of Descriptors in CO Oxidation via Principal Component Analysis

David Moglia, Chemical Engineering (DOE)
Dion Vlachos, Chemical & Biomolecular Engineering
Unraveling the Reaction Kinetics of Surfactant Production from Renewable Resource

Wallis Boyd, Chemical Engineering (NSF CBET) (University of Connecticut)
Norman Wagner & Antony Beris, Chemical & Biomolecular Engineering
A Microfluidic Viscometer for Blood: Theory and Fabrication

Erin Hogan, Chemical Engineering (S&E)
Norman Wagner, Chemical & Biomolecular Engineering
Optimization of Shear- Thickening Fluids for Space Suit Applications

Evan Minnigh, Chemical Engineering (NSF CBET)
Norman Wagner, Chemical & Biomolecular Engineering
Comparison of Microfluidic Viscosity Measurements with Bulk Rheology for Human Blood
Laura Smith, Chemical Engineering (S&E)
Norman Wagner, Chemical & Biomolecular Engineering
*Host Cell Protein Expression in E. coli*

Kevin Sanchez Rivera, Chemical Engineering (NSF-REU Interfacing Sustainable Energy & Materials/DOE) (UPR)
Bingjun Xu, Chemical & Biomolecular Engineering
*Quantitative Study of Shape Evolution of Pd Cubes at Atomic Level using Surface-Enhanced Infrared Reflection-Absorption Spectroscopy*

Alex King, Chemical Engineering (NSF-REU Interfacing Sustainable Energy & Materials/ARPA-E IONICS) (University of Michigan)
Yushan Yan, Chemical & Biomolecular Engineering
*Hydroxide Exchange Membrane Electrolyzers for Hydrogen Production*

Hansen Mou, Chemical Engineering (NSF-REU Interfacing Sustainable Energy & Materials/ARPA-E IONICS) (Clemson University)
Yushan Yan, Chemical & Biomolecular Engineering
*Characterization of Reinforced and Self-Supported Polymer Hydroxide Exchange Membrane*

**CIVIL & ENVIRONMENTAL ENGINEERING**
Aidan Meese, Environmental Engineering (NSF EPSCOR)
Daniel Cha, Civil & Environmental Engineering
*Delaware Solid Waste Project*

Katherine Dougherty & Sean Morris, Mechanical Engineering (Sustainability Scholars)
Michael Chajes, Civil & Environmental Engineering
*Delaware River and Bay Authority: Applications in Energy Harvesting*

Alexia Stock, Civil Engineering (CEE)
Rachel Davidson, Civil & Environmental Engineering
*Affect of Characteristic Perception on Homeowners' Decisions to Implement Hurricane Mitigation Retrofits*

James Holyoke, Civil Engineering (S&E)
Tian-Jian Hsu, Civil & Environmental Engineering
*Understanding Oil Removal Through Oil-Mineral-Microbial Flocculation Processes*

Katelyn Anderson, Environmental Engineering (S&E)
Paul Imhoff, Civil & Environmental Engineering
*Applying Biochar as Roadway Soil Amendment in New Castle County, DE*

Sydney Cargill, Civil Engineering (S&E)
Paul Imhoff, Civil & Environmental Engineering
*Biochar Effect on Plant Growth, Water Availability, and Nutrient Removal*
Emily Tulsky, Civil Engineering (S&E)
James Kirby, Civil & Environmental Engineering
Evaluating the Correspondence Between Tsunami Hazard and Existing Coastal Flooding Estimates on the U.S. East Coast

Kyle Verdi, Civil Engineering (CEE)
Kalehiwot Manahiloh, Civil & Environmental Engineering
Experimental Evaluation of the Engineering Behavior of Soil-Biochar Mixture as a Roadway Construction Material

Michael Rechsteiner, Environmental Engineering (S&E)
Julia Maresca, Civil & Environmental Engineering
How Biochar Can Help Sustain Our Environment

Tingchi Ren, Civil Engineering (CEE)
Sue McNeil, Civil & Environmental Engineering
Operationalizing the Concept of Resilience: A Case Study of Flooding in North Carolina

Shannon Brown, Environmental Engineering (S&E)
Jack Puleo, Civil & Environmental Engineering
Effects on Munition Due to Tidal Patterns

Mike Larner, Civil Engineering (GPS)
Jack Puleo, Civil & Environmental Engineering
Shoreline Morphology Due to Vessel Generated Wakes

Rachel Schaefer, Civil Engineering (CEE)
Jack Puleo, Civil & Environmental Engineering
Investigating Impact of Pea Patch Island Vegetation on Waves

Janelle Skaden, Civil Engineering (S&E)
Jack Puleo, Civil & Environmental Engineering
Effects on Munitions due to Tidal Patterns

**MECHANICAL ENGINEERING**

Russell Martin, Biomedical Engineering (CBER NSF REU) (University of Iowa)
Thomas Buchanan, Mechanical Engineering
MRI-Based T2 Quantification of Articular Cartilage Degradation Following Surgical ACL Reconstruction

Caroline Kook, Mechanical Engineering (CBER NSF REU/MEEG/S&E)
David Burris, Mechanical Engineering
Elucidating How Articulation Amplitude, Contact Area, and Stress, Affect Fluid Load Support of Cartilage and Joints

Christopher Pasquale, Mechanical Engineering (S&E)
Joseph Feser, Mechanical Engineering
Engineering Thermal Transport Using Embedded Nanocrystals
Zhiyuan Yang, Mechanical Engineering (S&E)
Joseph Feser, Mechanical Engineering

Direct Measurement of Phonon Scattering Rate Using an Ultrafast Laser
Shawn Egan, Computer Science (Delaware Energy Institute)
Zubaer Hossain, Mechanical Engineering

Inhomogenous Composition Profiles in Self-assembled Quantum Dot Substrates
Colin McDermitt, Mechanical Engineering (S&E)
Zubaer Hossain, Mechanical Engineering

Engineering Strength & Toughness via Atomic Scale Stitching
Allison Procak, Mechanical Engineering (SF)
Zubaer Hossain, Mechanical Engineering

Creating Atomic Heterostructures from Two-Dimensional Materials
Tianyi Weng, Mechanical Engineering (S&E)
Zubaer Hossain, Mechanical Engineering

Developing Multisize Alloy Quantum Dot Photovoltaics
Raina Coflin, Mechanical Engineering (CBER NSF REU) (University of Michigan- Ann Arbor)
X. Lucas Lu, Mechanincal Engineering

Chondro-Protective Effect of Statin and the Inhibition of Rho GTPase Activities
Tiange Zhang, Mechanical Engineering (GPS/CBER NSF REU/Vince Baro Scholarship/MEEG)
X. Lucas Lu, Mechanincal Engineering

Protective Mechanism of Statin on Cartilage: from Molecular Mechanism to Observational Study
Yiming Wan, Mechanical Engineering (S&E)
Andreas Malikopoulous, Mechanical Engineering

UD’s Scaled Smart City
Raymond Zayas, Mechanical Engineering (GPS)
Andreas Malikopoulous, Mechanical Engineering

Designing an Accurate Simulation of Decentralized Autonomous Traffic
Christopher McMahon, Mechanical Engineering (S&E)
Ioannis Poulakakis, Mechanical Engineering

Optimization and ROS Simulation of SPEAR Robotic Leg
Rob Samuelson, Mechanical Engineering (S&E)
Ioannis Poulakakis, Mechanical Engineering

Autonomous Robot Navigation in an Environment Cluttered by Obstacles
Sabrina Sierra, Mechanical Engineering (CBER NSF REU) (UPR)
Ioannis Poulakakis, Mechanincal Engineering
Studying Gait Transitions with Periodic Gait Primitives

Thomas Giusetti, Mechanical Engineering (GPS)
Romain Valery Roy, Mechanical Engineering

Torsional Galloping as a Method of Harvesting Wind Energy

Xia Wu, Mechanical Engineering (S&E)
Erik Thostenson, Mechanical Engineering

Preparation and Characterization of Carbon Nanotube Integrated Multifunctional Composites

Theresa Ewa, Biochemistry (CBER NSF REU) (University of Illinois at Chicago)
Liyun Wang, Mechanical Engineering

Expression Pattern of the Mechanosensitive Ion Channels Piezo 1 and Piezo 2 in Murine Skeletal Tissue

Sida Jiang, Mechanical Engineering (CBER NSF REU/Vince Baro Scholarship/MEEG)
Liyun Wang, Mechanical Engineering

Spatiotemporal Analysis of Calcium Signaling in Mechanically Loaded Bone

MATERIALS SCIENCE & ENGINEERING

Spencer Grissom, Chemical Engineering (NSF-REU Interfacing Sustainable Energy & Materials/W. M. Keck Foundation) (UMBC)
Matthew Doty, Material Science & Engineering

Photon Upconversion Nanoparticles for Targeted Drug Delivery

Kyle Smyth, Chemistry (W. M. Keck Foundation)
Matthew Doty, Material Science & Engineering
TBA

Michelle Thuruthickara, Biomedical Engineering (MSEG/NSF BMAT/S&E)
Kristi Kiick, Materials Science & Engineering

Modification of the Phase-Separation Behavior of Resilin-Like Polypeptides

Brady Abraham, Mechanical Engineering (ASU/NSF QESST/S&E)
Robert Opila, Materials Science & Engineering

Performance of a Novel Electrodeposited Silicon Junction

Aashiv Patel, Electrical Engineering (S&E)
Robert Opila, Materials Science & Engineering

Modeling High-Efficiency Carrier Selective Solar Cells

Areej Shahid, Chemical Engineering (NSF-REU Interfacing Sustainable Energy & Materials/DOE) (UMBC)
Joshua Zide, Material Science & Engineering

Characterization of Electronic and Photonic Nanomaterials

Session V 3:30-5:00pm

PSYCHOLOGICAL & BRAIN SCIENCES
Betty Akalu, Neuroscience (INBRE)
Mary Dozier, Psychological & Brain Sciences
The Association Between Somatic Symptoms and Chronic Health Conditions in Middle Childhood

Maria DePinto, Psychology (SF)
Mary Dozier, Psychological & Brain Sciences
Inhibitory Control in Aggressive Children Over Time

Jordan Franklin, Neuroscience (INBRE)
Mary Dozier, Psychological & Brain Sciences
The Association Between Attachment Organization and Poor Health in Middle Childhood

Lydia Hadley, Neuroscience (GPS)
Chad Forbes, Psychological & Brain Sciences
Examining Neural Mechanisms in STEM Girls and Boys

Gabriela Poletaev, Biological Sciences (INBRE)
Chad Forbes, Psychological & Brain Sciences
Sensing the Stigma: Neurological Reactions to Socially Stigmatized Situations

Carolyn Byrne, Neuroscience (SF)
Amy Griffin, Psychological & Brain Sciences
Examining Prefrontal Correlates of Spatial Working Memory

Ezra Rudinoff, Neuroscience (S&E)
Amy Griffin, Psychological & Brain Sciences
Spatial Working Memory Correlates of Medial Entorhinal and Midline Thalamic Projections to the Dorsal Hippocampus

Emily Walzl, Psychology (S&E)
Amy Griffin, Psychological & Brain Sciences
Optogenetic Inactivation of a Thalamo-Prefrontal Pathway during Spatial Working Memory

Bernardus Willems, Neuroscience (GPS)
Amy Griffin, Psychological & Brain Sciences
Local Field Potential Spectral Analysis in the Hippocampus during a DNMP Task

Courtney Aul, Neuroscience (S&E)
James Hoffman, Psychological & Brain Sciences
Repetition Priming in the Attentional Blink
Alison Lobo, Neuroscience/Spanish Studies (INBRE)
James Hoffman, Psychological & Brain Sciences
TBA

Charlotte Kronick, Psychology (S&E)
Julie Hubbard, Psychological & Brain Sciences
*Gender Differences in Children’s Response to Peer Aggression*

Kendall Smythe, Psychology (S&E)
Lisa Jaremka, Psychological & Brain Sciences
*Married Couples, How Self-Esteem Influences the Feeling of Belonging.*

Allison George, Neuroscience (SF)
Anna Klintsova, Psychological & Brain Sciences
*Structural Changes to Thalamus in an Animal Model of Fetal Alcohol Spectrum Disorders*

Natalie Ginn, Neuroscience (Nucleus)
Anna Klintsova, Psychological & Brain Sciences
*Effect of Third Trimester Equivalent Alcohol Exposure on Cholinergic Circuitry of the Forebrain in Rodents*

Lord Freeman, Biochemistry (Nucleus)
Dayan Knox, Psychological & Brain Sciences
*Using Near Infrared Imaging to Measure a Signature of Learning and Memory in the Rat Brain*

Subhas Anushka Mazumdar, Neuroscience (S&E)
Dayan Knox, Psychological & Brain Sciences
TBA

Catherine Nadar, Psychological & Brain Sciences (S&E)
Jared Medina, Psychological & Brain Sciences
*The Neural Basis of Visual-Tactile Multisensory Integration*

Patrick Reyes, Neuroscience (S&E)
Jared Medina, Psychological & Brain Sciences
*Understanding Spatial Representation Using the Tactile Simon Effect*

Kylie Wright, Neuroscience/Biological Sciences (INBRE)
Jared Medina, Psychological & Brain Sciences
*Understanding the Neural Correlates of Body Perception with Voxel-Based Lesion-Symptom Mapping*

Aislinn DeSieghardt, Cognitive Science (GPS)
Peter Mende-Siedlecki, Psychological & Brain Sciences
*How Gender Shapes Pain Perception Thresholds*

Sloan Ferron, Neuroscience (McNair)
Peter Mende-Siedlecki, Psychological & Brain Sciences
*The Relationship Between Biased Perception of Pain and Anger on Black Faces*
Alex Klysa, Psychology (S&E)
Peter Mende-Siedlecki, Psychological & Brain Sciences
The Neural Based of Racial Bias in Pain Perception: An FMRI Study

Nicole Kozak, Neuroscience (S&E)
Peter Mende-Siedlecki, Psychological & Brain Sciences
Perceptual Mechanisms Supporting Racial Bias in Pain Care

Danielle Schwartz, Psychology (S&E)
Peter Mende-Siedlecki, Psychological & Brain Sciences
Individual Differences in Emotional Processing and Personality on Pain Perception

Lauren Meckler, Neuroscience (S&E)
Joshua Neunuebel, Psychological & Brain Sciences
Using Sound Source Localization to Investigate the Impact of the Reproductive Cycle on Mouse Social Communication

Tanner Wilkinson, Neuroscience (GPS)
Joshua Neunuebel, Psychological & Brain Sciences
The Effect of TRPC2 Knockout on Mouse Social Interactions and Vocalizations

Catherine Zimmerman, Neuroscience (S&E)
Tania Roth, Psychological & Brain Sciences
Effects of 5-aza-2′-deoxycytidine on DNA Methylation in the PFC of Adolescent Long Evans Rats Following Differential Maternal Care

McKayla Wood, Neuroscience (GPS)
Jaclyn Schwarz, Psychological & Brain Sciences
Examining the Impact of a Two-Hit Model of Neuroinflammation on Social Behavior in Juvenile Rats

Brittany Vetter, Neuroscience (McNair)
Jeffery Spielberg, Psychological & Brain Sciences
Investigation of Hippocampal Network Properties Related to Individual Differences in Memory

Colin Horgan, Neuroscience (S&E)
Mark Stanton, Psychological & Brain Sciences
The Role of mPFC Activation in the Context Preexposure Facilitation Effect

Claudia Pinizzotto, Neuroscience (SF)
Mark Stanton, Psychological & Brain Sciences
PD31 Scopolamine Pre-exposure ME and Training Day PS

Anna McCarter, Neuroscience (INBRE)
Timothy Vickery, Psychological & Brain Sciences
TBA

Kerri Walter, Neuroscience (GPS)
Timothy Vickery, Psychological & Brain Sciences  
*Object-based Warping: Exploring Links to Attention*

**LINGUISTICS & COGNITIVE SCIENCE**

Teresa Highberger, Cognitive Science (McNair)  
Arild Hestvik, Linguistics & Cognitive Science  
*Mental Representations of Speech Sound Categories*

Adassa Phillips, Exercise Science (McNair)  
Arild Hestvik, Linguistics & Cognitive Science  
*Brain Activity Revealing Effects of Learning Artificial Language*

Kenya Neal, Sociology (McNair)  
Kaja Jasinska, Linguistics & Cognitive Science  
*Using Fnirs Neuroimaging to Study the Neural Systems that Support Children’s Comprehension of Scalar Implicatures*

Krystal Mendez, Cognitive Science (INBRE)  
Zhenghan Qi, Linguistics & Cognitive Science  
*Role of Linguistic Experiences in Statistical Learning*

**COMPUTER INFORMATION SCIENCES**

Chengzhuo Wang, Computer Science (S&E)  
Daniel Chester, Computer & Information Sciences  
*Simultaneous Action Game*

Jonathan Martin, Computer Science (SF)  
James Clause, Computer & Information Sciences  
*Java Test Analyzer Tool*

Yihan Ye, Computer Science (S&E)  
Keith Decker, Computer & Information Sciences  
*Exploring Dynamically Branching Structures by Agent-Based Modeling*

Nathaniel Merrill, Computer Science (S&E)  
Guoquan Huang, Computer & Information Sciences  
*Lightweight Unsupervised Deep Loop Closure*

Adam Tran, Computer Science (S&E)  
Kathleen McCoy, Computer & Information Sciences  
*Reestablishing Google Connection with Dr. Yarrington and Dr. McCoy’s Dissertation: Simulating Question-Based Visual Scanning for Non-Visual readers.*

**ELECTRICAL & COMPUTER ENGINEERING**

Ryan Kabrick, Computer Engineering (S&E)  
Guang Gao, Electrical & Computer Engineering
Exploring Parallel Computing on a Multicore Embedded System with TensorFlow

Nathan Augenbraun, Electrical Engineering (NASA EPSCOR ISS)
Tingyi Gu, Electrical & Computer Engineering
TBA

Zachary Mahl, Computer Engineering (NASA EPSCOR ISS)
Tingyi Gu, Electrical & Computer Engineering
TBA

Michael Schwartz, Computer Engineering (NASA EPSCOR ISS)
Tingyi Gu, Electrical & Computer Engineering
TBA

Jason Anderson, Electrical Engineering (S&E)
Steven Hegedus, Electrical & Computer Engineering
Mobile Solar Experimental Station Diagnosis

Spencer Czerwinski, Computer Engineering (S&E)
Fouad Kiamilev, Electrical & Computer Engineering
Re-Engineering Large Introductory Course (RELC) in Computer Engineering to Enhance Learning and Participation

Jennifer DeFriece, Electrical Engineering (S&E)
Fouad Kiamilev, Electrical & Computer Engineering
Electric Vehicle Research

Alexis Deputy, Electrical Engineering (S&E)
Fouad Kiamilev, Electrical & Computer Engineering
TBA

Mateo Duke, Computer Engineering (GPS)
Fouad Kiamilev, Electrical & Computer Engineering
Re-Engineering Large Introductory Course (RELC) in Computer Engineering to Enhance Learning and Participation

Samuel Matylewicz, Electrical Engineering (S&E)
Fouad Kiamilev, Electrical & Computer Engineering
CPEG202 Curriculum Writer/ CVORG

Daniel May, Computer Engineering (S&E)
Fouad Kiamilev, Electrical & Computer Engineering
Re-Engineering Large Introductory Course (RELC) in Computer Engineering to Enhance Learning and Participation

Drew Barrett, Electrical Engineering (S&E)
Mark Mirotznik, Electrical & Computer Engineering
Tailored Dielectric Filament Feedstock for Additive Manufacturing
Theodore Fessaras, Computer Engineering (S&E)
Mark Mirotznik, Electrical & Computer Engineering
TBA

Ryan Geary, Computer Engineering (S&E)
Mark Mirotznik, Electrical & Computer Engineering
Additive Manufacturing of Pharmaceuticals

Marina Smolens, Electrical Engineering (S&E)
Mark Mirotznik, Electrical & Computer Engineering
Tailored Dielectric Filament Feedstock for Additive Manufacturing

Collin Wallish, Electrical Engineering (S&E)
Mark Mirotznik, Electrical & Computer Engineering
TBA

Alina Christenbury, Computer Science (GPS)
Andrew Novicin, Electrical & Computer Engineering
Summer Scholars VR

Grant Zhao, Computer Science (S&E)
Andrew Novocin, Electrical & Computer Engineering
Developing an Affordable Intrusion Detection System for Small Businesses

MATHEMATICAL SCIENCES
Brandon Gilbert, Mathematical Sciences (GPS)
Sebastian Cioaba, Mathematical Sciences
Addressings of Graphs and Networks

Chunxu Ji, Mathematical Sciences (S&E)
Sebastian Cioaba, Mathematical Sciences
Distinguishing Graphs through Eigenvalues of Simplicial Complexes

Samantha Kasehagen, Mathematical Education & Shannon McNaul, Chemical Engineering (S&E)
Michelle Cirillo, Mathematical Sciences
Proof in Secondary Classrooms: Finding Patterns in Student Thinking

Ryan Talley-McGovern, Actuarial Sciences (S&E)
David Edwards, Mathematical Sciences
Using the BIAcore for Multicomponent Reactions

Miguel Fuentes, Applied Mathematics (GPS)
Chad Giusti, Mathematical Sciences
Perceptron Geometries in 2 Layer Feed Forward Networks

Corey Holcomb, Applied Mathematics (Math Dept)
Chad Giusti, Mathematical Sciences
*Topological Statistics for Image Analysis*

Lucas Wu, Mathematical Sciences (S&E)
Dominique Guillot, Mathematical Sciences
*The Positivity of GCD Matrices*

Samuel Awidi, Computer Science (INBRE) (DSU)
Sokratis Makrogiannis, Mathematical Sciences (DSU)
*TBA*

Catherine Castagna, Computer Science (SF)
Douglas Rizzolo, Mathematical Sciences
*Testing for Collisions in Correlated Brownian Motion Simulations*

Dai Li, Mathematics/Economics (GPS)
Louis Rossi, Mathematical Sciences
*Mathematical Modeling of Phytoplankton Behaviors*

John Pae, Applied Mathematics (GPS)
Louis Rossi, Mathematical Sciences
*The Mathematics of Swimming Plankton*

Dong Liang, Mathematics/Economics (S&E)
Francisco-Javier Sayas, Mathematical Sciences
*Vectorized Implementation of Deep Neural Networks and Application to Classification of Signals*

Megan DiIorio, Quantitative Biology (CPWBIO), Muyi Liu, Mathematics (Volunteer) & Julia Trigg, Mathematics (Penn State) (PSU)
Gilberto Schleiniger, Mathematical Sciences
*Steady State Analysis of Tissue Organization Model*

Jayson Feld, Mathematics (NSF EPSCOR) (Wesley College)
Derald Wentzien, Mathematics (Wesley College)
*The Correlation between Asthma and Air Quality*

**PHYSICS & ASTRONOMY**
Caio Azevedo, Physics Engineering (INBRE) (DSU)
Mohammad Khan, Physics Engineering (DSU)
*TBA*

Panisara Chimsuti, Biology (INBRE) (DSU)
Mohammad Khan, Physics Engineering (DSU)
*TBA*

Ashanti Scott, Biology/Chemistry (INBRE) (DSU)
Qi Lu, Physics Engineering (DSU)
Spectrofluorometric Analysis of Giant Unilamellar Vesicles with Cholesterol and Gold or Silver Nanoparticles

Edward Graff, Physics (S&E)
Bennett Maruca, Physics & Astronomy

CURIE Mission Ground Station Antenna Design

Michael Pergeorelis, Physics (SF)
Veronique Petit, Physics & Astronomy

Finding the Existance of B-type Star Companions

Jennifer Fanelle, Physics (S&E)
Michael Shay, Physics & Astronomy

Estimating Current Density with MMS Data in Near-Earth Space

Daniel Godzieba, Physics (S&E)
Michael Shay, Physics & Astronomy

Energy Analysis of MHD Turbulence in Magnetic Reconnection Simulations
Oral Presentations

Session One 8:30-9:45am

FAMILY & PROFESSIONAL SUPPORT (ROOM 110)

Moderator:
Sean Riley & Jen Storm, Psychology & Danielle Hess, Human Services (SLS)
Ryan Beveridge & Stevie Grassetti, Psychological & Brain Sciences

Bounce Back

Natalie Field, Neuroscience & Ameha Kottam, Psychology (SLS)
Mary Dozier, Psychological & Brain Sciences

Trajectory of Fidelity and Effectiveness of Certified Parent Coaches

Nathan Field, Psychology/Cognitive Science & Trina Harmon, Psychology (SLS)
Mary Dozier, Psychological & Brain Sciences

Working with High-Risk Families

Katherine Johnson, Public Policy (SLS)
Nancy Weiss, Human Development and Family Sciences

Direct Support Professional Perspectives and Role Perceptions in the Field of Intellectual and Developmental Disabilities

MUSIC THEORY & EDUCATION (ROOM 215)

Moderator:

Rachel deLauder, Exercise Science (GPS)
Lynette Overby, Theatre

Dancers and Posture: The Effects of the Alexander Technique on Alignment

Catherine Preszler, Music Education (AHSS)
Lauren Reynolds, Music

Percy Grainger’s Quest to Elevate the Folk Song

Amanda Goldstein, Music Theory (AHSS)
Philip Duker, Music

The Formal Function of the “Pop-Drop” in Popular Music

Joshua Dill, Music Education (AHSS)
James Anderson, Music

Mahler’s Resurrection; An Examination of Leonard Bernstein’s Mahler Advocacy

Alex Sallade, Music Theory (AHSS)
Jennifer Shafer, Music

Music Analysis and its Impact on Performance
POLITICAL HISTORIES (ROOM 222)

Moderator:

Jennifer West, History (AHSS)
Michael Frassetto, History
*The Transformation of English Criminal Trial in Conjunction with the Spiritual Refocus of the Twelfth Century*

Paige Morrison, History (AHSS)
Wayne Batchis, Political Science & International Relations
*The Four Horsemen and the New Deal Court*

William Rossi, Political Science (GPS)
Wayne Batchis, Political Science & International Relations
*A Political and Legal Analysis of The Deferred Action for Childhood Arrivals Program*

Samantha Rodriguez, Neuroscience (GPS)
Ronet Bachman, Sociology
*Prostitution, Substance Abuse, and Crime: Narratives of Recidivism and Desistance*

Nicole Salvatore, Criminal Justice (AHSS)
Ellen Donnelly, Criminal Justice
*Police Misconduct Reform: Assessing the Nature and Impacts of Federal Investigations and Consent Decrees*

ART & IDENTITY (ROOM 322)

Moderator:

Sierra Bacon, Art (GPS)
Amy Hicks, Art
*Coochie Coo*

Colleen Conway, Fine Arts (AHSS)
Greg Shelnutt, Art
*Fashion, Society, and Insecurities*

TJ White, Fine Arts (AHSS)
Abigail Donovan, Art
*Earthereal Bodies*

Savannah Wallett, Visual Communication (GPS)
Jon Cox, Art
*Evolve*
Session Two  
10:00-11:15am
COMMUNITY DEVELOPMENT & REVITALIZATION  
(ROOM 110)

Moderator:
Dakota Edwards, Public Policy/History (SPPA-PPF)
Marcia Scott & Sarah Pragg, Institute for Public Administration, School of Public Policy & Administration
Planning for Complete Communities in Delaware through Online Engagement

Tyler Reininga, Dietetics (Extension Scholar)
Christy Mannering, CANR
Communication Leading to Pathways of Collaboration

Ellen Schenk, Public Policy (SPPA-PPF)
Troy Mix, Institute for Public Administration, School of Public Policy & Administration
Economic Prosperity in Delaware

Amanda Binning, Robert Kuntz & Emma Ruggiero, Landscape Architecture (SLS)
Jules Bruck, Plant & Soil Sciences
Rural Community Revitalization through Green Infrastructure Design & SITES Assessment

ENGLISH EDUCATION & EDUCATIONAL PROGRAMMING  
(ROOM 215)

Moderator:
Rachel Tallant, Art (GPS)
Abigail Donovan, Art
The Value of Art in Education: With a Focus on Photography

Jillian Solomon, Human Services (McNair)
Ann Aviles, Human Development & Family Sciences
A Seat At the Table: Youth Participatory Action Research in Minority Community Development

Cristina Ahrendt, Elementary Education (GPS)
Joshua Wilson, Education
Instantly Helping Students Become Better Writers: An Investigation of the Use of Automated Essay Scoring Software in the Elementary ELA Classroom

William Eichler, English Education (AHSS)
William Lewis, Education
Breaking Down the Bard

GENDER & SEXUALITY  
(ROOM 222)

Moderator:
Taylor Matthews, Public Policy (Pattison)
Pascha Bueno-Hansen, Women's Studies
LGBTQ Community in the Inner City of Wilmington

Drew Hanley, Women's Studies (AHSS)
Jennifer Lobasz, Political Science & International Relations
Non-binary Trends, Tropes, and Tiers in Fictional Media

Jordan Spencer, History Education (McNair)
Drew Brown, Africana Studies
Sexuality in Baller Culture

Kobe Baker, Anthropology/Africana Studies (McNair)
Drew Brown, Africana Studies
Crossovers and Contradictions: Intimate Ballers

ART; METHODS & RECEPTION  
ROOM 322  
Moderator:  
Catarina Carvalho, Fine Arts (AHSS)
Jon Cox, Arts & Science
The First Apprentice

Xander Opiyo, Art (GPS)
Amy Hicks, Art
The Starving Artist: A Discussion of the Stigma Surrounding the Pursuit of Visual Art Careers
Krista Webster, Visual Communication (AHSS)
Robyn Phillips, Art
Dinosaur Problems

Deanna Wingel, Art (AHSS)
Abigail Donovan, Art
Experimental Animation

Caroline Kerins, Fine Arts (AHSS)
Edward Winn, Art
One to the Power of Love: Researching Video Game Art

Session Three  
11:30am-12:45pm  
FOX CHASE CANCER CENTER  
ROOM 110  
Moderator:  
Deeanne Almeida, Neuroscience (UD/FCCC/Hofmann)
Eileen Jaffe, Molecular Therapeutics (Fox Chase Cancer Center)
*Chromatographic Behavior of Phenylalanine Hydroxylase as a Probe of the Equilibrium Between Alternate Conformations*

Elizabeth Habash, Biological Sciences (UD/FCCC/Hofmann)
Wafik El-Deiry, Molecular Therapeutics (Fox Chase Cancer Center)
*Novel P53 Restoring Compounds Effects in P53 Protein Stability and NOXA Expression in Colorectal Cancer Cells*

Yasmin Mann, Biological Sciences (UD/FCCC/Hofmann)
Erica Golemis, Molecular Therapeutics (Fox Chase Cancer Center)
*The Effect of Anti-Cancer Drugs on the Regulation of Cilia-Associated Pdgfralpha Signaling*

Carissa Walkosak, Biological Sciences (UD/FCCC/Hofmann)
Lori Rink, Molecular Therapeutics (Fox Chase Cancer Center)
*Elucidating the Novel Interaction of BCLAF1 snd Bex1 in GIST Therapy*

**EDUCATION ACCESS (ROOM 215)**
Moderator:
Rigoberto Flores, Psychology, Wildo Mejia, Organizational & Community Leadership & Lindsay Perez-Perez, Elementary Teacher Education (SLF)
April Veness, Geography
*Getting Into and Through College: Road Maps Used, and Challenges Faced by Southern Delaware Hispanic Students and Their Families*

Muizz Hassanali, Mechanical Engineering (College of Engineering Undergraduate Diversity Scholar)
Jenni Buckley, Mechanical Engineering
*Diversity Initiatives in the College of Engineering*

Casey Moore, International Relations (SLS)
Malasree Neepa Acharya, Political Science & International Relations
*Preventing a Lost Generation: Education Policies in Greek Refugee Camps Compared to Education Policies in the United States*

**HISTORY & CULTURE (ROOM 222)**
Moderator:
Francesca Cheatham, Fine Arts (Nucleus)
Jay Custer, Anthropology
*Indigenous Icons of the Mid-Atlantic*

Caleb Demree, Environmental Engineering (AHSS)
Jay Custer, Anthropology
*Using Oyster Microgrowth to Understand Seasonal Consumption*
Rachel Bohny, English (AHSS)
Roger Horowitz, History
*The Jewish Community of Delaware: A History*

Jeanette Bendolph, History (GPS)
Owen White, History
*The Black Victorians: Victorian Anthropology, Racial Perception, and Occupations of Britain's Black Populace*

Stephen Skaar, Geography (AHSS)
Jon Cox, Art
*Underground Railroad Documentary*

**UNDERSTANDING & PROTECTING ART (ROOM 322)**

**Moderator:**

Robert Sheehan, English (AHSS)
Christopher Penna, English
*Poetry Visible*

Raychelle Osnato, Art Conservation (AHSS)
Brian Baade, Art Conservation
*A Jacquard Tapestry; Treatment and Analysis at the Textile Conservation Workshop*

Kirsten Gobb, Art Conservation (AHSS)
Martha Carothers, Art
*This Book Has a Stick In It: and Other Challenges in Archival Processing and Conservation of Artist Books*

Juliana Jones, Fine Arts (GPS)
Amy Hicks, Art
*Politics and Art: Healing in the Age of the Divide*

**SOCIAL IMPLICATIONS OF DANCE (ROOM 422)**

**Moderator:**

Ikira Peace, Interpersonal Communications (SPPA-PPF)
Lynnette Overby, Community Engagement Initiative, School of Public Policy & Administration
*"Women of Consequence": South Africa and the United States*

Rachel deLauder, Exercise Science, (GPS), Ikira Peace, Interpersonal Communications (SPPA-PPF), Amber Rance, Health Behavior Science (SLS) & April Singleton, Entrepreneurship & Technology Innovation (SLS)
Lynnette Overby, Theatre
*Women of Consequence in South Africa and United States: A Collaborative Performance*

*A dance performance*
Session Four 2:00-3:15pm
INTERNATIONAL HUMANITY (ROOM 110)
Moderator:

Shannon Brady, Fashion Merchandising (AHSS)
Sheng Lu, Fashion & Apparel Studies
Used Clothing Trade: A Blessing or Curse for African Countries?

Molly Fulton, Anthropology (AHSS)
Melissa Melby, Anthropology
How Diverse Health Information Can Help New Mothers and Their Babies

Emily Doris, International Relations (AHSS)
Julio Carrion, Political Science & International Relations
The Tweet Heard Round the World: Feminist Revolution in Latin America

Zhen Yuan, Economics (GPS)
Jeremy Tobacman, Economics
Local Labor Markets, Wages, and Employment

SCIENCE & TECH OUTREACH (ROOM 215)
Moderator:

Branden Bateman & Anna McGough, Biomedical Engineering (SLS)
Jeannie Stephens, & Sarah Rooney, Biomedical Engineering
Michael Bober, Pediatrics & Richard Kruse, Orthopedics (Nemours)
Assistive Seating Device for Infants with Osteogenesis Imperfecta

Sierra Enea, Biological Sciences (McNair)
Yvette Yien, Biological Sciences
TBA

Jaime Renman, Public Policy (SPPA-PPF)
Marcia Scott & Julia O’Hanlon, Institute for Public Administration, School of Public Policy & Administration
Mobility in Motion: Engagement Efforts Designed to Advance Mobility Coordination in Delaware

Agostina Armando, Agronomical Engineering (Catholic University of Cordoba) & Caroline May, Agriculture & Natural Resources (Extension Scholar)
Bill Cissel, Cooperative Extension
The Journey of Managing Pests

Summer Thomas, Agriculture & Natural Resources (Extension Scholar)
Emmalea Ernest, Cooperative Extension
Fourth Generation’s First Time Around

**DIVERSITY INITIATIVES**

(Room 222)

Moderator:

Bené Burton, Anthropology (McNair)
Georgina Ramsay, Anthropology

*Diversity Disparity: An Analysis of Heterogeneity in Student Life*

Taurence Chisholm Jr., International Relations (McNair)
Theodore Davis Jr., Political Science & International Relations

*The Black Swan Effect: A Study on Socioeconomic Status and its Relation to Self Efficacy*

Keynon Harris-Miller, Psychology (McNair)
Carol Henderson, English/African Studies

*Representation of Black Men in Media effects on Black Male Youth*

**SESSION FIVE**

3:30-4:45pm

**PSYCHOLOGY & HUMAN DEVELOPMENT**

(Room 110)

Moderator:

Lavinia Sanches, Psychology (Hofmann)
Steve Amendum, Education

*Analyzing the Relationship Between Components of Family Involvement and Literacy Achievement of English Language Learners*

Nkeiruka Ashiedu, Health Behavior Science (McNair)
Kelebogile Setiloane, Behavioral Health & Nutrition

*Racial Disparities in Childhoood Asthma*

Dajah White-Dumpson, Neuroscience (McNair)
Rob Palkovitz, Human Development & Family Sciences

*TBA*

Aliyah Nelson, Human Services (GPS)
Jennifer Carrano, Human Development & Family Studies

*Identifying the Effectiveness of Group Mentoring vs. Individual Mentoring on Self-Esteem Development in Girls between the Ages of Six and Eleven*

Rachel Confair, Linguistics (AHSS)
Roberta Golinkoff, Linguistics & Cognitive Science  
_Talking with Toddlers: Investigating Conversational Turns in Foster Families_

**CHANGING POLITICAL FUTURES**  
(Room 215)

*Moderator:*

Andrew Casper, Political Science (AHSS)  
Flavio Hickel, Political Science & International Relations  
_Rhetoric & The American Presidency_

Rachel Evans, Womens Studies (GPS)  
Marie Laberge, Women's Studies  
_One Nation Under God? The Evangelical Embrace of a Higher Political Power_

Eden Negusse, Political Science (McNair)  
Anne Boylan, History  

**COMMUNITY WELLNESS**  
(Room 222)

*Moderator:*

Chelsea Ganc, Health Promotion (Extension Scholar)  
Sarah Bercaw, Cooperative Extension  
_Increasing Participation and Retention Rates in the EFNEP Program_

Margaret Chesser, Biological Sciences/Public Policy (SPPA-PPF)  
Christopher Kelly, Institute for Public Administration, School of Public Policy & Administration  
_School-Based Health Centers in Delaware_

Keani Craig, Amber Rance & Brianna Wolfe, Health Behavior Science (SLS)  
Elizabeth Orsega-Smith, Behavioral Health & Nutrition & Laurie Ruggiero, School of Nursing  
_Interactive Nutrition Education: Engaging Older Adults_

Sarah Warkentin & Madison Matera, Public Policy (SPPA-PPF)  
Signe Bell, Center for Community Research and Service, School of Public Policy & Administration  
_Healthy Communities Delaware_

Marissa Onesi, History/Criminal Justice (SPPA-PPF)  
Julia O'Hanlon, Institute for Public Administration, School of Public Policy & Administration  
_Programs, Services, and Planning for Multi-Generational Communities_

**OUTREACH TO CHILDREN & YOUTH**  
(Room 322)

*Moderator:*

Carolanne Deal, Art History & AnnaLivia McCarthy, Art Conservation/Art History (SLS)
Jocelyn Alcántara-Garcia, Art Conservation
Art Rules! Art and Science Outreach at Winterthur Museum and Salvation Army, Wilmington

Erica Haas, Tristan Leung, Danny Pineyro & Kayla Reiner, Music Education (SLS)
Suzanne Burton, Music
The Beat Goes On

April Singleton, Entrepreneurship & Technology Innovation (SLS)
Lynnette Overby, Theatre
The Legacy Project

Aderolake Bolarinwa, University Studies (McNair Scholars), Adolphus Fletcher, Business, Samantha Gibbs, Biology, Rahsel Holland, English/Public Policy, Liam Stewart, Hotel, Restaurant & Institutional Management & Christian Wills, English (Wilmington Summer Scholars),
David Teague, English/Associate in Arts
Effective Strategies to Improve Youth Experiences