August 8, 2013

Dear Friends of Undergraduate Research and Service:

Welcome to the fourth annual Undergraduate Research and Service Celebratory Symposium. Over 250 scholars have worked diligently to prepare for this day. For some of the students this is their first introduction to the life of a scholar with time to learn, reflect and create new knowledge. With the guidance of dedicated faculty mentors, the transition from student to scholar has occurred slowly and deliberately during the last 10 weeks. Many of our scholars are also engaged in the community as they work side by side with community partners while making contributions beyond the walls of the University.

In addition to the research/creative activities of the summer, several faculty and staff volunteer their time and expertise to provide the summer scholars with information about research ethics, presentation skills, graduate school preparation, fellowships, and career advice. The scholars also learn from their peers and gain an appreciation for other disciplines.

This program would not be possible without the vision and commitment of the members of the Alliance of Summer Scholar Programs. This group is comprised of directors, coordinators, and representatives of each of the University of Delaware Summer Scholar Programs. This event is a result of the collaborative efforts of this group.

On behalf of the Alliance of Summer Scholar Programs, thank you for attending this program. We hope you leave with new ideas and strategies for future interdisciplinary and collaborative research and service projects. We also hope you leave with a deeper appreciation for the intellectual and creative potential of undergraduate students at the University of Delaware.

Sincerely,

Lynnette Young Overby, Ph.D.
Professor, Department of Theatre
Faculty Director Undergraduate Research & Experiential Learning
Dear colleagues and friends:

Welcome to the University of Delaware’s fourth Annual Undergraduate Research and Service Celebratory Symposium. It’s only fitting that we celebrate research and service together, as together, they transform experiences, enhance learning, and ultimately, offer the greatest hope for addressing the world’s most pressing problems.

Every day, our students learn about the critical challenges of our day. But over the past summer, a special group of students have immersed themselves in answering those critical challenges, taking their education beyond the confines of the classroom.

Today, we celebrate their journey as researchers and summer scholars, knowing that for many, the projects they’re sharing now will only be the start of questions to explore throughout their college careers, as they continue to push the boundaries of research and its contributions to improving the human condition.

The joy and beauty of “discovery learning” is learning that discovery never truly ends. I thank the Alliance for Summer Scholar Programs for establishing this annual journey of exploration, the donors for their support of this student opportunity, and the faculty for their countless and tireless mentorship and guidance. And I reserve my greatest gratitude and commendation to the students presenting their work, which exemplifies our mission to disseminate knowledge for the benefit of the larger society.

Sincerely,

Nancy Brickhouse
Interim Provost
Undergraduate Research and Service Celebratory Symposium
Clayton Hall Conference Center
Thursday, August 8, 2013 • 8:30 a.m. - 4:30 p.m.

8:00 – 8:35  Registration
Breakfast
Poster Set-Up
Lobby
Room 101 A/B

8:40 – 8:55  Welcoming Remarks by Ann Ardis, Deputy Dean, College of Arts & Sciences
Lobby

9:00 – 10:30  Poster Session I (Even-numbered students stand by poster)
Room 101 A/B

9:00 – 5:00  Art Exhibits
Preston Klinke
Sarah Driver
Lobby

9:00 – 10:00  Oral Session 1
1. Music History/Art Conservation
2. Race & Culture
3. Youth Leadership
4. Specialized Courts/Domestic Violence
Room 119 pg. 17
Room 120 pg. 17
Room 123 pg. 17
Room 125 pg. 17

10:10 – 11:10  Oral Session 2
1. Engagement in the Arts
2. Communication
3. Education
4. Food, Nutrition & Exercise
Room 119 pg. 18
Room 120 pg. 18
Room 123 pg. 18
Room 125 pg. 18

10:45 – 12:15  Poster Session II (Odd-numbered students stand by poster)
Room 101 A/B

11:20 – 12:35  Oral Session 3
1. History/Art History/Economic History
2. Urban Education/Economics
3. Art/Dance/Creative Writing
4. Health Related Science & Engineering
Room 119 pg. 19
Room 120 pg. 19
Room 123 pg. 19
Room 125 pg. 19

12:15 – 1:20  LUNCH
Pencader 103, 106, 115A&B, 117

1:30 – 2:30  HHMI Keynote Speaker Dr. José Gómez-Márquez
Researcher and Director- Little Devices Lab at MIT
"Hacker Nurses, Legos, and the Road to Construction Sets for Health"
Auditorium, Room 128

1:30 – 2:30  Oral Session 4
1. Music Education
2. International Relations
3. Cooperative Extension
4. Health and Movement
Room 119 pg. 20
Room 120 pg. 20
Room 123 pg. 20
Room 125 pg. 20

2:40-3:55  Oral Session 5
1. Literature
2. Religion/Psychology
3. Intervention
Room 119 pg. 21
Room 123 pg. 21
Room 125 pg. 21

3:15-4:00  UD Creamery Ice Cream, courtesy of the
College of Agriculture and Natural Resources
Lobby

4:00-4:30  Closing Remarks by Daniel Reyes,
Coordinator, Food Bank of Delaware’s Coalition to End Hunger
(2012 BA in Anthropology, 2011 Service Learning Scholar)
Auditorium, Room 128
Announcement of Interdisciplinary Undergraduate Research in Sustainability Prize
Raffle with giveaway prizes
ANIMAL AND FOOD SCIENCES

1.) Regan Nebenhaus, Pre-Veterinary Medicine and Animal Biosciences (S&E) (UD)
   Tanya Gressley, Animal & Food Sciences
   Creating More Accurate Standardized Polymorphonuclear Neutrophils (PMN) Assays

2.) Jessica Applebaum, Pre-Veterinary Medicine and Animal Biosciences (S&E) (UD)
   Calvin Keeler, Animal & Food Sciences
   What is the Composition of the Avian Respiratory Microbiome?

3.) Natalie Fogarty, Pre-Veterinary Medicine and Animal Biosciences (S&E) (UD)
   Calvin Keeler, Animal & Food Sciences
   Transcription Profiling of Chickens Infected with Infectious Laryngotracheitis Virus

4.) Melissa Volpone, Pre-Veterinary Medicine and Animal Biosciences (INBRE) (UD)
   Mark Parcells, Animal & Food Sciences
   Marek's Disease: Observing the Effects of the Meq Gene on Macrophage Function of Different MDV Strains

5.) Gina Accumanno, Food and Nutrition Science (EPSCoR) (DSU)
   Jung-lim Lee, Food Science (DSU)
   TBA

6.) Caroline Bennett (CIBER/EPSCOR/HSSR) (CRHS)
    Caroline Davis and Jung-Lim Lee Food Science (DSU)
    Bacterial Population of Coliform and Total Bacteria from Retail Ground Beef

ENTOMOLOGY AND WILDLIFE ECOLOGY

7.) Samantha Fino, Wildlife Conservation (EPSCoR) (UD)
    Jacob Bowman, Entomology and Wildlife Ecology
    The Effects of Occupancy and Relative Abundance of Mesocarnivores on Territory Density of Forest Birds in Urban Forest Fragments

8.) Shyanne Miller, Wildlife Conservation (McNair) (UD)
    Jacob Bowman, Entomology and Wildlife Ecology
    Does Calvin Klein’s “Obsession” for Men Perfume Effect the Detection of Mesocarnivores?

9.) Angela Carcione, Entomology and Wildlife Conservation (EPSCoR) (UD)
    Deborah Delaney, Entomology and Wildlife Ecology
    Population Genetics of Apis Mellefera (Honey Bee) from the East Coast United States

10.) Marisa Del Corso, Animal and Food Science (EPSCoR) (UD)
     Judith Hough-Goldstein, Entomology and Wildlife Ecology
     Integration of Biological Control and Native Seeding in Restoration of Mile-a-Minute (Persicaria perfoliata) Invasions

11.) Jennifer Schoenstein, Environmental Science (EPSCoR) (UD)
     Judith Hough-Goldstein, Entomology and Wildlife Ecology
     Comparison of Lab-Reared and Field-Collected Rhinocornimus latipes Ability to Survive Temperature Challenges, and Conditions that Induce Diapause

12.) Sarah Weiskopf, Wildlife Conservation (EPSCoR) (UD)
     Kyle McCarthy, Entomology and Wildlife Ecology
     Genetic Verification of Snow Leopard Scat Samples used in Dietary Analysis

PLANT AND SOIL SCIENCES

13.) Robert Cirino, Biological Sciences (EPSCoR) (UD)
     Jeffrey Caplan, Delaware Biotechnology Institute/Plant and Soil Sciences
     Biochar

14.) Bianca Riddick, Biological Sciences (CANR) (Norfolk State University)
     Nicole Donofrio, Plant and Soil Sciences
     Comparing Virulence and Gene Expression in Asexually and Sexually Derived Populations of the Rice Blast Fungus

15.) Emma Sweeney, Plant Science (EPSCoR/DE) (UD)
     Nicole Donofrio, Plant and Soil Sciences
     Investigating the Link between Super Oxide Dismutase and Autophagy in Rice Blast Fungus

16.) Patrick Kukulich, Biological Sciences (S&E) (UD)
     Pamela Green, Plant and Soil Sciences
     Investigating the Role of MicroRNA 168 and its Target, AGO1 mRNA, in the Response to Dual Abiotic Stress in Arabidopsis Seedlings

17.) Thanh Nguyen, Biological Sciences (EPSCoR/ATE SITE SMART) (DTCC)
     Deb Jaisi, Plant and Soil Sciences (DTCC)
     Abundance of Betta-Propeller Phytase Genes in Environmental Samples from East Creek, Maryland
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<th>No.</th>
<th>Title</th>
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<td>Colleen McClatchy, Chemistry (CANR) (UD)</td>
<td>Angelia Seyfferth, Plant and Soil Sciences</td>
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<td><em>Arsenic Concentrations in Mushrooms and Associated Health Risks in the USA</em></td>
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<td>Andrew Boddicker, Biological Sciences (EPSCoR) (UD)</td>
<td>Eric Wommack, Plant and Soil Sciences</td>
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<td><em>Ecology of Marine Viruses</em></td>
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<td>20.</td>
<td>Julia Hagenmeyer, Marine Science (EPSCoR) (UD)</td>
<td>Eric Wommack, Plant and Soil Sciences</td>
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<td><em>Demographic Comparison of Viral DNA in Oysters in the Chesapeake and Delaware Bays</em></td>
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<td>21.</td>
<td>Colleen McCarren, Biological Sciences (EPSCoR) (Washington College)</td>
<td>Eric Wommack, Plant and Soil Sciences</td>
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<td><em>Dynamics of Estuarine Bacterioplankton Populations over a Single Day</em></td>
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<td><strong>BIOLOGICAL SCIENCES</strong></td>
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<td>22.</td>
<td>Fanta Kalle, Biological Sciences (INBRE) (UD)</td>
<td>Robert Akins, Biological Sciences</td>
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<td><em>Effects of FGF2, VEGFA, and Disulfated Heparin on the Phenotype of TCPS Cultured Human AFs and MVECs</em></td>
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<td>23.</td>
<td>Shaivi Patel, Biological Sciences (S&amp;E) (UD)</td>
<td>Zohra Ali-Khan Catts, Cancer Genetics Program (Christiana Care)</td>
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<td><em>Cancer Penetrance and Pathology in BRCA Families</em></td>
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<td>Ryan Meredith, Biological Sciences/Neuroscience (INBRE) (UD)</td>
<td>Carlton Cooper, Biological Sciences</td>
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<td><em>Attachment of Prostate Cancer Cells to Bone Marrow Endothelial cells under Fluid Shear Stress</em></td>
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<td>Kathie Wu, Biological Sciences (S&amp;E) (UD)</td>
<td>Patricia DeLeon, Biological Sciences</td>
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<td><em>Functional Adhesion Molecule 1 (JAM-A): Expression in the Murine Epididymal Tract and Accessory Organs</em></td>
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<td>Saleena Malik, Biological Sciences (INBRE) (UD)</td>
<td>Melinda Duncan, Biological Sciences</td>
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<td><em>The Function of Fibronectin in Lens Biology</em></td>
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<td>Ramya Sridharan, Biological Sciences (S&amp;E) (UD)</td>
<td>Paul T. Fawcett, Biological Sciences</td>
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<td><em>Identifying Cytokines Associated with Fibroblast Activity in Lyme Arthritis</em></td>
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<td>Molly Peters, Biological Sciences (S&amp;E) (UD)</td>
<td>Ethna Fidelma Boyd, Biological Sciences</td>
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<td><em>Examining Pathogenicity Island Excision in Vibrio cholera</em></td>
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<td>Laura Powell, Biological Sciences (S&amp;E) (UD)</td>
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<td><em>Regulation of the Osmotic Tolerance Respond in the Halophile Vibrio parahaemolyticus</em></td>
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<td>30.</td>
<td>Hannah Anderson, Biological Sciences (INBRE/CPW) (UD)</td>
<td>Deni Galileo, Biological Sciences</td>
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<td><em>Detection and Function of Novel Cancer Biomarker CD171 (L1CAM)</em></td>
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<td>Kaliopi Bousses, Biological Sciences (EPSCoR) (DTCC)</td>
<td>Diane Herson, Biological Sciences/Nour Rifai, Christiana Care Health Services</td>
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<td><em>Utilization of PCR-DGGE to Monitor the Microbial Communities Within the Hives of the Western Honey Bee (Apis mellifera)</em></td>
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<td>Julia Yu, Medical Laboratory Sciences (S&amp;E) (UD)</td>
<td>Diane Herson, Biological Sciences</td>
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<td><em>Antibiotic Resistance of Bacteria Associated with Bee Bread</em></td>
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<td>Ojang Bate, Biotechnology (INBRE) (DTCC)</td>
<td>Eric Kmiec, Biological Sciences (DSU)</td>
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<td>34.</td>
<td>Ashley Johnson, Biological Sciences (EPSCOR) (DSU)</td>
<td>Eric Kmiec, Biological Sciences (DSU)</td>
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<td>Christine Dang, Biological Sciences (S&amp;E) (UD)</td>
<td>Salil Lachke, Biological Sciences (DSU)</td>
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<td><em>Characterization of Celf1 in Mouse Lens Cell Lines</em></td>
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<td>Shaili Patel, Biological Sciences (UDRF) (UD)</td>
<td>Salil Lachke, Biological Sciences (DSU)</td>
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<td><em>Identification of Differentially Expressed Transcripts in Tdrd7 Null Mutant Mouse Lens</em></td>
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<td>Dylan Kahler, Biological Sciences (Ethel and Donald Hofmann Scholar) (UD)</td>
<td>Gary Laverty, Biological Sciences</td>
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<td><em>Investigating SGK-1 Mediation of Ion Transport in the Chicken Large Intestine</em></td>
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<td>Jonathan Avallone, Biological Sciences (S&amp;E) (UD)</td>
<td>Anja Nohe, Biological Sciences</td>
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<td><em>Structural Effects of CK2.1 and BMP-2 on Articular Cartilage by Second Harmonic Generation Imaging</em></td>
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<td>Cara Kuppersmith, Biological Sciences (S&amp;E) (UD)</td>
<td>Anja Nohe, Biological Sciences</td>
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<td><em>The Mechanism of CK2 Peptides for Their Role as a Possible Osteoporosis Treatment</em></td>
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<td>Matthew Fischer, Biological Sciences (S&amp;E) (UD)</td>
<td>Erica Selva, Biological Sciences</td>
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<td><em>Investigating the Molecular Basis of Alleles 8J16 and 9E6 in Drosophila melanogaster</em></td>
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<td>Joseph Massaglia, Biochemistry (S&amp;E) (UD)</td>
<td>Erica Selva, Biological Sciences</td>
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<td><em>Structural Determination of the Wg-Wls Complex in Drosophila</em></td>
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42.) Brooke Palus, Biological Sciences (S&E) (UD)  
Erica Selva, Biological Sciences  
*Examining O-xylosyltransferase Shedding in Drosophila*

43.) Meghan Kirk, Biological Sciences (S&E) (UD)  
Robert Sikes, Biological Sciences  
*The Clinical Implications of Gamma Secretase Inhibition on Prostate Cancer Metastasis*

44.) Irene Marwa, Biotechnology (McNair) (UD)  
Robert Sikes, Biological Sciences  
*Derived Factor(s) Inducing Prostate Cancer Cell Death*

45.) Kelsie Landis, Biological Sciences (S&E) (UD)  
Jia Song, Biological Sciences  
*The Role of miR-31 in Pigment Cell Function during Sea Urchin Embryonic Development*

46.) Carissa McKinney, Biological Sciences (INBRE/CPW) (UD)  
Jia Song, Biological Sciences  
*Regulatory Role of MicroRNA-31 in the Developing Sea Urchin Embryo*

47.) Talha Bhatti, Biological Sciences (S&E) (UD)  
Kenneth Van Golen, Biological Sciences  
*G-LISA RhoC Activation Assay Following Growth and Focus Formation of Inflammatory Breast Cancer Cells upon Nucleotide Treatment*

48.) Morgan Frechie, Nutritional Sciences (S&E) (UD)  
Kenneth Van Golen, Biological Sciences  
*PDGFRα Kinase Inhibitors Induce Cell Apoptosis and Affect Emboli Formation in SUM149 IBC Cells*

49.) Sydney Sudler, Biological Sciences (INBRE/MARC) (DSU)  
Kenneth Van Golen, Biological Sciences  
*Cancer Biology*

50.) David Matera, Biological Sciences (S&E) (UD)  
Carlton Cooper, Biological Sciences  
*Galvanotaxis and Prostate Cancer Metastasis: Role of the Voltage Sensitive Sodium Channel Cancer Cell*

51.) Shreya Jammula, Biological Sciences (Ethel and Donald Hofmann Scholar) (UD)  
Donna Woulfe, Biological Sciences  
*Role of Akt in Inflammatory Breast Cancer*

52.) Stephen Krasucki, Biotechnology and Chemistry Technology (EPSCoR/Governor’s Biotechnology Scholarship) (DTCC)  
John McDowell and Virginia Balke, Biological Sciences (DTCC)  
*TBA*

**NEUROSCIENCE**

53.) Daniel Charytonowicz, Biomedical Engineering (INBRE) (UD)  
James Hoffman, Psychology  
*Neural Mechanisms Surrounding Visual Attention*

54.) Emily Baumert, Biological Sciences/Neuroscience & Megan Ziegler, Foreign Languages and Literatures (INBRE/URP) (UD)  
Jared Medina, Psychology  
*Body Representation Deficits in Brain-damaged Individuals*

55.) Erin Eller, Neuroscience (S&E) (UD)  
Jeffrey Rosen, Psychology  
*Optogenetics and the Amygdala in Consolidation of Contextual Fear Memories*

56.) Vamsi Matta, Biomedical Engineering (INBRE) (UD)  
Tania Roth, Psychology  
*Effect of Early Life Caregiver Maltreatment on Juvenile and Adult Anxiety- and Depressive-like Behavior*

57.) Megan Warren, Neuroscience (INBRE) (UD)  
Tania Roth, Psychology  
*The Influence of Early Infant-Caregiver Experiences on Genes Associated with Anxiety*

**Natural Sciences (Chemistry and Biochemistry, Mathematical Sciences, Physics, Geological Sciences, Marine Science)**

**CHEMISTRY AND BIOCHEMISTRY**

58.) Jasbir Deol, Biological Chemistry (INBRE-CCHS) (Wesley)  
Thomas Bauer, Chemistry (Wesley)  
*The Incidence of Racial Disparities Amongst I-ELCAP Screened Lung Cancer Patients’*

59.) Kaylee Miller, Biological Chemistry (INBRE-CCHS) (Wesley)  
Thomas Bauer, Chemistry (Wesley)  
*Racial and Socioeconomic Disparities Determined Insignificant Among Lung Cancer Survival, Despite Differences Among Staging and Treatment*

60.) Leonard Voss, Chemical Engineering (S&E) (UD)  
Svilen Bobev, Chemistry & Biochemistry  
*The Synthesis and Structural Composition of Novel Thermoelectric Compounds Ca13RECdSb11 (RE = La - Tb)*

61.) Ross Beauchamp, Biological Chemistry (INBRE) (Wesley)  
Malcolm D’Souza, Chemistry (Wesley)  
*A Comparison of the Rates of Solvolysis of 3-Chloropropyl Chloroformate at 25.0 Celsius and 32.0 Celsius*
62.) Justin Collins, Biological Sciences (INBRE) (Wesley)
Malcolm D’Souza, Chemistry (Wesley)
Analysis of Conductance in the Solvolysis of Methacryloyl Chloride

63.) Victor DeBarros, Biological Chemistry (EPSCoR) (Wesley)
Malcolm D’Souza, Chemistry (Wesley)
The Solvolysis of n,nDiisopropylcarbamoyl Chloride

64.) Gabriel Fernandez, Biological Chemistry (EPSCoR) (Wesley)
Malcolm D’Souza, Chemistry (Wesley)
Importance of Linear Free Energy Relationships in Studies of Chloro-Substituted Ethyl Chloroformates

65.) Catherine Gross, Biological Chemistry (INBRE) (Wesley)
Malcolm D’Souza, Chemistry (Wesley)
Promoting the Accomplishments of Delaware INBRE Undergraduates at a Liberal Arts Minority-Serving Institution

66.) Tabitha Lambert, Biological Chemistry (EPSCoR) (Wesley)
Malcolm D’Souza, Chemistry (Wesley)
A Solvent Study of 1-Chloro-2-Methyl Propyl Chloroformate

67.) Laura Malinowski, Biological Chemistry (INBRE) (Wesley)
Malcolm D’Souza, Chemistry (Wesley)
Solvent Analysis of Secondary Chloroformate

68.) Maryeah Pavey, Medical Technology (INBRE) (Wesley)
Malcolm D’Souza, Chemistry (Wesley)
Analysis of the Alcoholysis of 3-Chloropropyl Chloroformate at 32.0°C

69.) Christine Rojas, Biological Sciences (INBRE) (Wesley)
Malcolm D’Souza, Chemistry and Derald Wentzien, Mathematics (Wesley)
Correlation of BMI to Gender and Other Lifestyle Behaviors of College Students

70.) Brett Sansbury, Biological Chemistry (EPSCoR) (Wesley)
Malcolm D’Souza, Chemistry (Wesley)
Pentafluorophenyl Chlorothionoformate – A Solvent Study

71.) Katie Owings, Chemistry (S&E) (UD)
Joseph Fox, Chemistry & Biochemistry
Synthesis and Kinetic Study of Trans-Cycloalkenes

72.) Lauren Genova, Chemistry (S&E) (UD)
Catherine Grimes, Chemistry & Biochemistry
The Role of Bacterial Cell Wall Dimers in the Innate Immune Response

73.) Douglas Kenny, Chemistry (S&E) (UD)
Catherine Grimes, Chemistry & Biochemistry
Synthesis of Muramic Acid Derivatives to Investigate the Promiscuity of Bacterial Cell Wall Biosynthetic Enzymes

74.) Anne Sanger, Biomedical Engineering (S&E) (UD)
Catherine Grimes, Chemistry & Biochemistry
The Characterization and Expression of Nucleotide Binding Oligomerization Domain-like Receptor Proteins

75.) Xuanzhao Wang, Biochemistry (EPSCoR) (UD)
Murray Johnston, Chemistry & Biochemistry
Particle Size Distribution and Concentration in Library Collection Stacks

76.) Christopher Gutnajer, Chemical Engineering (S&E) (UD)
Sandeep Patel, Chemistry & Biochemistry
Influence of Phase Separated Nanodomains on Membrane-Peptide Binding

77.) Jennifer McCord, Chemistry (S&E) (UD)
Sandeep Patel, Chemistry & Biochemistry
Computational Analysis of Microdomains within Lipid Bilayers

78.) Eric Peters, Chemical Engineering (S&E) (UD)
Sandeep Patel, Chemistry & Biochemistry
Computational Distribution Analysis of Iodide and Chloride around Hydrophobin II

79.) Hongbin Wan, Chemical Engineering (S&E) (UD)
Sandeep Patel, Chemistry & Biochemistry
To Fold and Insert (or to Insert and Fold)?

80.) Lourdjina Cherenfant, Chemistry (EPSCOR) (DSU)
Daniela Radu, Chemistry, (Wesley)
TBA

81.) Thomas Keane, Chemistry (S&E) (UD)
Joel Rosenthal, Chemistry & Biochemistry
Solvent Effects on Electrode Catalyzed Carbon Dioxide Electrolysis

82.) Benjamin Lefler, Chemistry (S&E) (UD)
Joel Rosenthal, Chemistry & Biochemistry
Characterization of a Tetrapyrole Macrocycle for Use as an Organic Chromophore

83.) Yuexing Cui, Chemistry (S&E) (UD)
Andrew Teplyakov, Chemistry & Biochemistry
Ex situ Methods to Prepare Functionalized Semiconductor Surfaces

84.) Brittney Petel, Chemistry (S&E) (UD)
Klaus Theopold, Chemistry & Biochemistry
Synthesis of Ferrocenyl-Substituted β-Diketimines

85.) Anna Walter, Chemical Engineering (S&E) (UD)
Klaus Theopold, Chemistry & Biochemistry
Synthesis and Characterization of High-Order Bonds in Inorganic Complexes
86.) Melissa Morris, Chemistry (S&E) (UD)
Mary Watson, Chemistry & Biochemistry
Preparation of Highly Substituted Olefins via the Reaction of Alkynes, Acetals, and Nucleophiles

87.) Thomas Rivas, Biochemistry (S&E) (UD)
Mary Watson, Chemistry & Biochemistry
Enantioselective Copper(I)-Catalyzed Alkynylation of Fully Substituted Isochroman Acetals

88.) Sabine Neal, Chemistry (EPSCOR) (DSU)
Bizuneh Workie, Chemistry, (DSU)
Electrochemical Reductive Grafting of Gold (III) Diazonium Complexes

89.) Matthew Urban, Biochemistry (S&E) (UD)
Zhihao Zhuang, Chemistry & Biochemistry
Unnatural Amino Acid Incorporation of Photoinducible Crosslinkers to Observe DNA Translesion Synthesis

MATHEMATICAL SCIENCES

90.) Justin Grier, Physics (NSF) (UD)
Richard Braun, Mathematical Sciences
A Model for Tear Film/Epithelium Interaction

91.) Matthew Moye, Quantitative Biology (HHMI/S&E) (UD)
Richard Braun, Mathematical Sciences
Modelling Tear Film Evaporation with Corneal Epithelial Metabolism and Ion Transport

92.) Biao Kong, Mathematics/Economics (S&E) (UD)
Pamela Cook, Mathematical Sciences
Modeling and Simulation of “Simple” Viscoelastic Liquids

93.) Hannah Kretz, Mathematics Education (S&E) (UD)
Alfinio Flores, Mathematical Sciences
Teaching Mathematics with Technology

94.) Stephen Smith, Mathematical Sciences (S&E) (UD)
Felix Lazebnik, Mathematical Sciences
Independent Sets of Fixed Sizes in Graphs with Minimum Degree Restrictions

95.) Jiefu Li, Electrical Engineering (INBRE)
Fioralba Cakoni, Mathematical Sciences
Impedance Tomography with Application to Medical Imaging

96.) Julia Mann, Mathematics Education (S&E) (UD)
Alfinio Flores, Mathematical Sciences
Technology in a Mathematics Classroom

97.) Olivia Hessling, Mathematical Sciences (S&E) (UD)
Pak-Wing Fok, Mathematical Sciences
Estimation of Recruitment Probabilities for Clinical Drug Trials

98.) Weining Xin, (Visiting Student International Scholar)
(People's University of Hong Kong)
Pak-Wing Fok, Mathematical Sciences
Simulation of Multitype Branching Processes

99.) Andrea Carosso, Physics (S&E) (UD)
Francisco J. Sayas, Mathematical Sciences
Simulating Transient Linear Waves Using Integral Equations

100.) Scott Fones, Quantitative Biology (S&E) (UD)
Gilberto Schleiniger, Mathematical Sciences
Quantification of APC in the Colonic Crypt

PHYSICS

101.) Katie Dillon, Biology & Neuroscience (UD)
Edward Lyman, Physics and Astronomy
Molecular Simulations of Caffeine Bound A2a

102.) Robert Gavin, Physics (UD)
Edward Lyman, Physics and Astronomy
TBA

GEOLOGICAL SCIENCES

103.) Joshua Barnett, Biological Sciences (EPSCoR) (UD)
Clara Chan, Geological Sciences
Ecology and Biodiversity of Iron-Oxidizing Bacteria in Near Shore Environments

104.) Rebecca Bronstein, Environmental Science (EPSCoR) (UD)
John Madsen, Geological Sciences
Developing a Model for a Sustainability Studies Minor at the University of Delaware

105.) Grace Relf, Energy and Environmental Policy (S&E) (UD)
John Madsen, Geological Sciences
Creating and Maintaining a Culture of Sustainability at the University of Delaware: Establishing an Office of Sustainability at UD

MARINE SCIENCE

106.) Amelia Snelling, Environmental Science (EPSCoR) (UD)
Jennifer Biddle, Marine Science and Policy
Examination of Sedimentary Archaea in the Delaware Bay

107.) Michael Baumbach, Biotechnology and Chemistry Technology (EPSCoR/ATE SITE SMART) (DTCC)
Kathryn Coyne, Marine Science and Policy
TBA

108.) Sierra Schirtzinger, Biological Sciences (EPSCoR) (DTCC)
Kathryn Coyne, Marine Science and Policy
Investigating Macrophyte-Microbe Interaction in the Salt Tolerance Mechanism of Spartina Grass Species in Blackbird Creek, Delaware
109.) Alexa Bennett, Biological Sciences (EPSCoR) (DTCC)
Thomas Hanson, Marine Science and Policy
TBA

110.) Emily Patrolia, Environmental Studies (EPSCoR) (UD)
Willett Kempton, Marine Science and Policy
Perceptions of Risk from Sea Level Rise

111.) Ian Combs, Marine Science (EPSCoR) (UD)
Douglas Miller, Marine Science and Policy
Distribution of the Fiddler Crab Species, Uca Pugnax, Along Man-Made Ditches in the Canary Creek Marsh

112.) Meghan Owings, Marine Science (EPSCoR) (UD)
Douglas Miller, Marine Science and Policy
Studying the Biology of Delaware’s Beaches to Understand the Responses to Storms and Beach Nourishment

113.) Geoffrey Udoff, Marine Biology (S&E) (UD)
Douglas Miller, Marine Science and Policy
Population Survey of the Invasive Shore Crab and the Native Mud Crab in the Delaware Bay

114.) Xiaoyu Ye, Electrical Engineering (S&E) (UD)
Aijun Song, Marine Science and Policy
Reduce the Time Requirement of Channel Estimation In Underwater Wireless Communication

115.) William Patrick Kaestner, Environmental Science (S&E) (UD)
Timothy Targett, Marine Science and Policy
Site Fidelity of Atlantic Croaker (Micropogonias undulatus) and Spot (Leiostomus xanthurus) on Beach and Riprap Shorelines in the Delaware Bay

116.) Danielle Lifavi, Environmental Science (S&E) (UD)
Timothy Targett, Marine Science and Policy
Day-Night Dynamics of the Surf-Zone Fish Assemblage in Delaware Bay

117.) Lauren Cordova, Chemical Engineering (EPSCoR/DE) (UD)
Maciek Antoniewicz, Chemical and Biomolecular Engineering
Growth Characteristics of the Extremely Thermophilic Bacterium Thermus thermophilus

118.) Matthew Benjes, Chemical Engineering (S&E) (UD)
Antony Beris, Chemical and Biomolecular Engineering
Extending a 1D Model of Arterial Network to Determine and Analyze Blood Flow in Anatomical Variations of the Circle of Willis

119.) Seth Ritter, Chemical Engineering (S&E) (UD)
David Colby, Chemical and Biomolecular Engineering
Development of a Fluorescent Bar-Coding System for Cell Based Proteomic Libraries

120.) Aditya Utturkar, Chemical Engineering (UD)
Prasad Dhurjati, Chemical and Biomolecular Engineering
A PBPK Model for Predicting BMP2 Concentrations in Mouse Tissues at Steady State

121.) Michael Karavolias, Chemical Engineering (EPSCoR) (UD)
Thomas Epps, Chemical and Biomolecular Engineering
Synthesizing Lignin Derived Bio-Based Monomers for Styrene Replacement in Block Copolymer Systems

122.) Ellen Reed, Chemical and Biomolecular Engineering (S&E) (UD)
Thomas Epps, Chemical and Biomolecular Engineering
Effect of Nanoparticles Additives on Block Copolymer Electrolytes

123.) Benjamin Carberry, Chemical Engineering (S&E) (UD)
Christopher Kloxin, Chemical and Biomolecular Engineering
Formation and Control of Wrinkles on Thiol-ene Polymers

124.) Michael Dummeldinger, Chemical Engineering (S&E) (UD)
April Kloxin, Chemical and Biomolecular Engineering
Synthesis and Characterization of Collagen-Mimetic Hydrogels
125.) Rachel Kennel, Chemical Engineering (UD)  
April Kloxin, Chemical and Biomolecular Engineering, Materials Science and Engineering  
*Enzymatically and Photolytically Degradable Hydrogels for Controlled Drug Release*

126.) Kelsi Skeens, Chemical Engineering (UD)  
April Kloxin, Chemical and Biomolecular Engineering, Materials Science and Engineering  
*Synthesis and Characterization of Tunable Hydrogels towards Improved Understanding of Structure-Property Relationships*

127.) Allison Wing, Biochemistry (S&E) (UD)  
Kelvin Lee, Chemical and Biomolecular Engineering  
*Improved Pluripotent Stem Cell Thaw Procedure for Differentiation into Brain Endothelial Cells*

128.) Ryan Dudek, Chemical Engineering (S&E) (UD)  
Christopher Roberts, Chemical and Biomolecular Engineering  
*Effect of Excipients on Protein Stability and Non-native Aggregation Kinetics*

129.) Samuel Schenkman, Chemical Engineering (S&E) (UD)  
Christopher Roberts, Chemical and Biomolecular Engineering  
*Effects of pH Swings on Gamma-D Crystallin*

130.) Christine Muzzelo, Chemical Engineering (INBRE) (UD)  
Millicent Sullivan, Chemical and Biomolecular Engineering  
*Optimization of Fluorescent Labels in Histone Based Polyplexes*

131.) Keyi Xu, Chemical Engineering (S&E) (UD)  
Norman J. Wagner, Chemical and Biomolecular Engineering  
*Dynamic Rheological Properties of Field-Responsive Nanomaterials for Applications in Transfibril Prosthesis*

132.) Michael Letterio, Chemical Engineering (DOE) (UD)  
Yushan Yan, Chemical and Biomolecular Engineering  
*Quaternary Phosphonium Ionomer for Hydroxide Exchange Fuel Cell*

**CATALYSIS CENTER FOR ENERGY INNOVATION**

133.) Kevin Abraham, Chemical Engineering (CCEI) (UD)  
Feng Jiao, Chemical and Biomolecular Engineering  
*Creation of a Carbon-Sulfur Cathode for Use in a Lithium Based Battery*

134.) Withdrawn

135.) Zach Erdman, Chemical Engineering (CCEI) (University of Minnesota)  
Dionisios Vlachos, Chemical and Biomolecular Engineering  
*Kinetics of Bronsted and Lewis Acid Sites in Aqueous-Phase Fructose Dehydration Using Zeolites*

136.) Shuting Feng, Chemical Engineering (CCEI) (UD)  
Dionisios Vlachos, Chemical and Biomolecular Engineering  
*Adsorption Studies in HY and NaY Zeolites by Quantum Mechanics/Molecular Mechanics Calculations*

137.) Nickolas Martin, Chemical Engineering (CCEI) (UD)  
Dionisios Vlachos, Chemical and Biomolecular Engineering  
*Spectroscopic Characterization of Hexose Derived Humins*

138.) Michael Orella, Chemical Engineering (CCEI) (UD)  
Dionisios Vlachos, Chemical and Biomolecular Engineering  
*Liquid Phase Catalytic Transfer Hydrogenation of Furfural over Ru/C Catalyst*

139.) Hannah Phillips, Chemical Engineering (CCEI) (University of Pennsylvania)  
Dionisios Vlachos, Chemical and Biomolecular Engineering  
*Ethanol Etherification on Metal Oxide Surfaces*

140.) Kevin Kuttler, Chemical Engineering (CCEI) (UD)  
Yushan Yan, Chemical and Biomolecular Engineering  
*Reduction of Electrode Overpotential for use in a Flow Battery*

141.) Zhexi Lin, Chemical Engineering (CCEI) (UD)  
Ayman Karim, Pacific Northwest National Laboratory  
*Controlled Synthesis of Palladium-Iron Nanoparticles for Catalytic Conversion of Biomass*

**CIVIL AND ENVIRONMENTAL ENGINEERING**

142.) Stacey Wallace, Chemical Engineering (McNair) (UD)  
Nii Artoh-Okine, Civil and Environmental Engineering  
*Making Sense of Large Scale Cancer Data Using Continuous Bayesian Networks*

143.) Jillian Allen, Environmental Engineering (EPSCoR/DE) (UD)  
Steven Dentel, Civil and Environmental Engineering  
*Heat and Mass Transfer Characterization for Traditional Latrine Pits Lined with Breathable Membranes*
144.) Bradley Sandhaus, Environmental Engineering (EPSCoR) (UD)
Paul Imhoff, Civil and Environmental Engineering
*Nutrient Leaching from Commercial Wood and Poultry Litter Biochar*

145.) Andrew DiPietro, Chemical Engineering (EPSCoR) (UD)
Julia Maresca, Civil and Environmental Engineering
*Identification and Characterization of an Agarase and Melanin Producing Marine Pseudoalteromonas sp.*

146.) Joseph Kerridge, Chemical Engineering (McNair) (UD)
Julia Maresca, Civil and Environmental Engineering
*Microbial Degradation of Asphalt*

147.) Sarah Yannarell, Biochemistry (EPSCoR) (UD)
Julia Maresca, Civil and Environmental Engineering
*Phosphate Cross-feeding between Bacteria and Fungi*

148.) Jordan Deshon, Civil Engineering (S&E) (UD)
Thomas Schumacher, Civil and Environmental Engineering
*Calibration of Ground Penetrating Radar (GPR) for Time-Zero Location and Depth Transformation*

### ELECTRICAL AND COMPUTER ENGINEERING

149.) Isaac Walker, Computer Engineering (S&E) (UD)
Michael Haney, Electrical & Computer Engineering
*Lightweight Tracking Arrays of Concentrators for Small-Scale, High-Efficiency Solar Cells*

150.) Yulia Karymova, Computer Engineering (S&E) (UD)
Fouad Kiamilev, Electrical & Computer Engineering
*The Grid-Integrated Vehicle with Vehicle-to-Grid Technology*

151.) Ben Llewelyn, Computer Engineering (S&E) (UD)
Fouad Kiamilev, Electrical & Computer Engineering
*Integration of 1-Wire Devices with the Electric Vehicle Cordset*

152.) Zachary Fox, Biomedical Engineering (S&E) (UD)
Abhyudai Singh, Electrical & Computer Engineering
*Examining Stability Systems in HIV*

153.) Christopher Cerezo Falco, Electrical Engineering (S&E) (UD)
Daniel Weile, Electrical & Computer Engineering
*Electromagnetic Simulator*

154.) Richard Amos, Electrical Engineering (S&E) (UD)
Chengmo Yang, Electrical & Computer Engineering
*Shielding Heterogeneous MPSoCs from Untrustworthy 3PIPs*

155.) Kory Mitchell, Electrical Engineering (S&E) (UD)
Chengmo Yang, Electrical & Computer Engineering
*Shielding Heterogeneous MPSoCs from Untrustworthy 3PIPs*

156.) Ge Wang, Electrical Engineering (S&E) (UD)
Chengmo Yang, Electrical & Computer Engineering
*Efficient Fault Resilience through Fault Rate-Driven Adaptation*

### COMPUTER AND INFORMATION SCIENCES

157.) Matthew Hoffman, Computer Science (S&E) (UD)
Keith Decker, Computer and Information Sciences
*Power Distribution Algorithm and User Interface Development for Vehicle-to-Grid Technology*

158.) Alexandra DePalma, Material Science (EPSCoR) (Chesnut Hill College)
Matthew Doty, Materials Science & Engineering
*TBA*

159.) Sam Widmayer, Ecology (EPSCoR) (UD)
Shawn Polson, Computer and Information Sciences
*Biogeographic Analysis of Eastern Oyster Microbial Associates in the Choptank River*

160.) Stephen Smith, Biotechnology (INBRE) (DTCC)
Shawn Polson, Computer and Information Sciences
*Using Illumina Reads to Error Correct PacBio Long Reads for Viral Metagenomics*

### MATERIALS SCIENCE AND ENGINEERING

161.) Jessica Lewis, Biomedical Engineering (CBER SURF) (UD)
Dawn Elliott, Biomedical Engineering
*2-D Analysis of Strain in Lumbar Intervertebral Discs*

162.) Jie Zhou, Electrical Engineering (S&E) (UD)
Juejun Hu, Materials Science & Engineering
*Solution Deposition of High-Index Glass Coatings for Light Management in Next-Generation Solar Cells*

163.) Byron Crane, Biomedical Engineering (S&E) (UD)
Xinqiao Jia, Materials Science & Engineering
*Incorporation of Biological Peptides in Hyaluronic Acid-Based Hydrogels*

164.) Rebekah Dumm, Biochemistry (INBRE) (UD)
Kristi Kiick, Materials Science & Engineering
*Photocross-linkable Resilin Based Hydrogels for Mechanically Demanding Tissue Engineering Applications*

165.) Christopher Hubley, Biomedical Engineering (S&E) (UD)
David Martin, Materials Science & Engineering
*Electrochemical Deposition of EDOT Monomer onto Modified Indium Tin Oxide Slides*
166.) Gabriel Szczepanek, Biomedical Engineering (S&E) (UD)
        David Martin, Materials Science & Engineering
        Polymer-Based Vascular Endothelial Growth Factor (VEGF) Biosensors for Treatment of Atrophic Macular Degeneration (AMD)

167.) Adrienne Blevins, Chemical Engineering (S&E) (UD)
        Ismat Shah, Materials Science & Engineering
        Optical and Structural Characterization of Vanadium Doped, Neodymium doped, and Co-Doped TiO2 Thin Films

168.) Hailey Cramer, Chemical Engineering (S&E) (UD)
        Ismat Shah, Materials Science & Engineering
        Investigation of Aluminum Diffusion in Polymer Solar Cells

169.) Alexander Delluva, Chemical Engineering (EPSCoR) (UD)
        Ismat Shah, Materials Science & Engineering
        Nanoporous, Multilayered Ceramic Water Filters

170.) Chirag Mevawala, Chemical Engineering (S&E) (UD)
        Ismat Shah, Materials Science & Engineering
        Magnetic Characterization of (Fe91V9)75P15C10 Metallic Glass

171.) Chelsea Shockey, Chemical Engineering (S&E) (UD)
        Joshua Zide, Materials Science & Engineering
        Design and Fabrication of an Inert Gas Condensation Chamber for the Production of Rare-Earth-V Nanoparticles

MECHANICAL ENGINEERING

172.) Micah Uzuh, Mechanical Engineering (S&E) (UD)
        Suresh Advani, Mechanical Engineering
        Void Morphology

173.) Jessica Penman, Mechanical Engineering (CBER SURF) (UD)
        Jenni Buckley, Mechanical Engineering
        Biomechanical Evaluation of a Knee Distractor

174.) Molly Wessel, Biomedical Engineering (CBER SURF) (UD)
        Jenni Buckley, Mechanical Engineering
        Validation of Quasi-static Gait Model for Biomechanical Testing of Femoral Fracture Fixation Implants

175.) Timothy West, Biomedical Engineering (INBRE) (UD)
        Jill Higginson, Mechanical Engineering
        Relationships Between MRI-Based Estimates of Cartilage Contact and Other Predictors of Knee Osteoarthritis Progression

176.) Monideepa Chatterjee, Biomedical Engineering (S&E) (UD)
        X. Lucas Lu, Mechanical Engineering
        Simulation of Microfracture Surgery Using A Bioreactor System

177.) Kelsey Devlin, Mechanical Engineering (CBER SURF) (UD)
        X. Lucas Lu, Mechanical Engineering
        Characterization of the Material Properties of Mandibular Condylar Cartilage

178.) Alexander Revell, Mechanical Engineering (CBER SURF) (UD)
        Ioannis Poulakakis, Mechanical Engineering
        Design and Control of Bio-Inspired Legged Robots

179.) Stanley Anderson, Mechanical Engineering (McNair) (UD)
        Ajay Prasad, Mechanical Engineering
        Design of a Heating Element for the Gravity-Fed Solar Thermochemical Receiver/Reactor

180.) Rossiny Beaucejou, Mechanical Engineering (McNair) (UD)
        Erik Thostenson, Mechanical Engineering
        Locally Patterned Carbon Nanotubes for in situ Sensing of Strain and Cracks in Composites Materials

181.) David Wilson, Mechanical Engineering (S&E) (UD)
        Erik Thostenson, Mechanical Engineering
        Processing and Characterization of Structured Composites at the Nanoscale Level

182.) Bretta Fylstra, Biomedical Engineering (S&E) (UD)
        Liyun Wang, Mechanical Engineering
        Site Specific Distribution of Heparan Sulfate Proteoglycans in Bone

183.) Michael Schenk, Mechanical Engineering (S&E) (UD)
        Liyun Wang, Mechanical Engineering
        Determining Mechanical Properties of Murine Calvaria

184.) Zachary Rogers, Mechanical Engineering (S&E) (UD)
        Liyun Wang, Mechanical Engineering
        Examination of Mechanics of Human Spine and Examination of Proteoglycans as Early Warning Indicators of Spinal Deterioration

Human Sciences (Medical Laboratory Sciences, Histotechnology, Physical Therapy, Kinesiology and Applied Physiology, Psychology)

MEDICAL LABORATORY SCIENCES

185.) Maria Kim, Medical Laboratory Sciences (S&E) (UD)
        Arun Kumar, Medical Laboratory Sciences
        Treating Cancerous and Non-cancerous cells with Curcumin and Observing Changes in DNA Fragmentation
186.) Edna Ofori, Medical Laboratory Sciences (McNair) (UD)
Arun Kumar, Medical Laboratory Sciences
In Vitro Co-Culture of MCF-7 Cells and Preadipocytes to Observe Cell Proliferation

187.) Sean Erony, Medical Laboratory Sciences (S&E) (UD)
Michelle Parent, Medical Laboratory Sciences
Locating Vibrio Parahaemolyticus Following an Intracellular Invasion

HISTOTECHNOLOGY

188.) Marlee Goins, Histology (INBRE) (DTCC)
Thomas Schaffer, Nemours Research Lung Center
In Vitro Cell Culture Models Calu-3 Cell Line for the Assessment of the Effects of Biophysical and Biological Stimuli

189.) Michele Gregorczyk, Histology (INBRE) (DTCC)
Sigrid Langhans, Nemours Biomedical Research
Expression of Na,K-ATPase in the Pediatric Brain Tumor Medulloblastoma

PHYSICAL THERAPY

190.) Claire Butkerait, Exercise Science (CBER SURF) (UD)
Stuart Binder-Macleod, Physical Therapy
The Relationship between Body Weight and Locomotor Function in Post-Stroke Individuals

191.) Lisa George, Biological Sciences (INBRE) (UD)
Cole Galloway, Physical Therapy
Xander Project

192.) Carisse Hamlet, Biomedical Engineering (INBRE) and Laura Libassi, Exercise Science (Peter White Fellow) (UD)
Cole Galloway, Physical Therapy
Intervention with a Novel Device to Improve Upper Extremity Mobility in children with Movement Impairments: A Case Study

193.) Jennifer Byrnes, Exercise Science (INBRE) (UD)
Darcy Reisman, Physical Therapy
TBA

194.) Kevin Lapham, Exercise Science (CBER SURF) (UD)
Lynn Snyder-Mackler, Physical Therapy
Physical Therapy Treatment Improves Patient Perceived Knee Function after ACL Injury

KINESIOLOGY AND APPLIED PHYSIOLOGY

195.) Nathaniel Rosal, Exercise Science (CBER SURF) (UD)
Thomas Kaminski, Kinesiology & Applied Physiology
Linear Acceleration in Soccer Headers in Male and Female College Athletes

196.) Kimberly Milla Ceja, Exercise Science (INBRE) (UD)
Christopher Modlesky, Kinesiology & Applied Physiology
Effect of Botulinum Toxin Treatment on Motor Function in Children with Spastic Cerebral Palsy

197.) James Cirone, Exercise Science (S&E) (UD)
Rhonda Pribyl, Kinesiology & Applied Physiology
Anabolic Effect of Intermittent PTH Treatment on Rat Tibia

198.) Brianna Gietter, Biomedical Engineering (INBRE) (UD)
Steven Stanhope, Kinesiology & Applied Physiology
Prescribing Optimal PD-AFO Stiffness for Post Stroke Patients

199.) Krittika Madadi, Exercise Science (EPSCOR) (UD)
Murali Temburni, Biological Sciences, DSU
Burst Firing in Neurons: Do Astrocytes have a Role?

200.) Charris Allen, Exercise Science (McNair) (UD)
Megan Wenner, Kinesiology & Applied Physiology
ET-B responses in Premenopausal and Postmenopausal Women

201.) Daniela Fiorilli, Exercise Science (S&E) (UD)
Megan Wenner, Kinesiology & Applied Physiology
Prescribing Optimal PD-AFO Stiffness for Post Stroke Patients

202.) Christopher Kaiser, Exercise Physiology (S&E) (UD)
Megan Wenner, Kinesiology & Applied Physiology
Sympathetic Reactivity In Women With a Family History of Hypertension

203.) Chris Day, Exercise Science (INBRE) (DTCC)
Mark Lafferty, Exercise Science, DTCC
TBA

204.) Alexander Dilks, Exercise Science (INBRE) (DTCC)
Mark Lafferty, Exercise Science, DTCC
TBA

205.) Dawn Jaquette, Exercise Science (INBRE) (DTCC)
Mark Lafferty, Exercise Science, DTCC
Effects of Artificially Sweetened and Sugar Sweetened Non-Caffeinated Soda on Resting Metabolic Rate

PSYCHOLOGY

206.) Albert Lo, Psychology (S&E) (UD)
Mary Dozier, Psychology
Caregiver Commitment in Foster and Group Care

207.) Elisabeth Neely & Je Un Park, Psychology (SL) (UD)
Mary Dozier, Psychology
Community Partners: New Directions Early Head Start, The Consuelo Foundation, University of Maryland, School of Social Work, Kansas University, LAUNCHing ABC in North Carolina Learning
Enhanced Visitation for Foster Children: Barriers to Community Implementation

208.) Megan Fitter, Psychology (S&E) (UD)
R. Rogers Kobak, Psychology
Measuring Change In A Comparative Efficacy Trial For Suicidal Adolescents


LINGUISTICS AND COGNITIVE SCIENCE

209.) Adam Breiner, Linguistics and Alexander Reichl, Elementary Teacher Education (S&E) (UD)
Irene Vogel, Linguistics & Cognitive Science
Predicting The Use of Acoustic Correlates of Prominence: Arabic, Finnish, Turkish, and Spanish

BEHAVIORAL HEALTH AND NUTRITION

210.) Jessica Plummer, Health Behavior Science (S&E) (UD)
Mia Papas, Behavioral Health and Nutrition
Frequency of Shared Meals, Obesity, and Acculturation in Hispanic Mothers and Children

APPLIED ECONOMICS AND STATISTICS

211.) Linda Grand, Environmental and Resource Economics (EPSCoR) (UD)
Kent Messer, Applied Economics and Statistics
Measuring Attitudes Towards Adoption of Optimization in Conservation Planning

POLICY

212.) Abigail Barber, Energy and Environmental Policy (EPSCoR/DE) (UD)
John Byrne, Center for Energy and Environmental Policy
The Global Economic and Environmental Effects of Palm Oil Production

213.) Nicole Seymour, Political Science/Public Policy (McNair) (UD)

Jerome Lewis, Public Policy and Administration
The Car-Free Guide: An Outcome of the Assessment of Transit-Friendliness in the City of Newark, Delaware


ARTS

214.) Amanda Boccardi, Elementary Teacher Education (ArtsBridge) (UD)
Lynnette Overby, Theatre
Math is Music to Our Ears

215.) Megan Lamotte, Psychology (ArtsBridge) (UD)
Lynnette Overby, Theatre
The Consequences of Our Actions: Dance and Transportation

COOPERATIVE EXTENSION

216.) Meghan Sobott, Natural Resource Management (Extension Scholars) (UD)
Carrie Murphy, New Castle County Cooperative Extension
Urban Gardening and Community Outreach with UD Cooperative Extension

SECONDARY EDUCATION

217.) Tatiana Burgess and Kevin Nai, English Education (ASPIRE) (UD)
Melva Ware, DE Center for Teacher Education
Examination of the On Track for Success Program

218.) Camille Fontenelle, Elementary Teacher Education (ASPIRE) (UD)
Melva Ware, DE Center for Teacher Education
Examination of the On Track for Success Program

219.) SaiSri Gajjala, Biomedical Engineering (ASPIRE) (UD)
Melva Ware, DE Center for Teacher Education
Examination of the On Track for Success Program

220.) Megan Hallett, English Education (ASPIRE) (UD)
Melva Ware, DE Center for Teacher Education
Examination of the On Track for Success Program

ART CONSERVATION

221.) Melissa Miller, Art Conservation (A&H) (UD)
Vicki Cassman, Art Conservation and Karen Rosenberg, Anthropology
Egyptian Mummy Autopsies: An Examination of the Practice
Additions

222. Alexander Stachnik, Computer Science (UD)
B. David Saunders, Computer and Information Sciences
High Performance Sparse and Dense Matrix Multiplication over Finite Fields

Oral Presentations

9:00 – 10:00 Oral Session 1

Music History/Art Conservation (Room 119)

Moderator: Joyce Hill Stoner, Edward and Elizabeth Goodman Rosenberg Professor, Art Conservation

Jesse Newby, Music (A&H) (UD)
Maria Purciello, Music
Cinematic-Opera: A Theoretical Framework for a New Genre of Film

Alyssa Hull, Art Conservation (A&H) (UD)
Jennifer Mass, Art Conservation
Using Synchrotron Radiation to Characterize and Conserve Cultural Heritage

Kelsey Wingel, Art Conservation (A&H) (UD)
Joyce Hill Stoner, Art Conservation
Science Studies Art: A Technical Analysis of Robert Crannell Minor’s “Souvenir of Italy”

Race & Culture (Room 120)

Moderator: Lauren Barsky, Associate Director, Undergraduate Research Program

Arianna Morton, Medical Laboratory Sciences (McNair) (UD)
Barret Michalec, Sociology and Criminal Justice
Exploring How Skin Color Is Represented In Teaching Materials And How It Impacts Physician Perspectives On Certain Skin Conditions

Kristen Loomis, Human Services (SS) (UD)
Asia Friedman, Sociology and Criminal Justice
A Blind Experience of Race

D’Janna Hamilton, Women and Gender Studies (McNair) (UD)
Margaret Stetz, Women and Gender Studies
A Celebration of Culture: Women’s Carnival Dress in St. Vincent

Conor Small, English (A&H) (UD)
April Veness, Geography
Perceptions of Change in a Traditional Fijian Village

Youth Leadership (Room 123)

Moderator: Laura Eisenman, School of Education

Rachel Gettenger, Human Services (SL) (UD)
Laura Eisenman, School of Education/Disabilities Studies
Community Partner: UD Center for Disabilities
Studies Career & Life Studies Certificate Program
Designing On-Campus Living For Students With Intellectual Disabilities

Jocelyn Moore, Organizational and Community Leadership (McNair) (UD)
Anthony Middlebrooks, Public Policy and Administration
Youth Group Leadership

Alyssa McCormick, Agriculture Education (Extension Scholars) (UD)
Doug Crouse, Kent County Cooperative Extension
302 vs. 410 (4-H Youth Development)

Specialized Courts/Domestic Violence (Room 125)

Moderator: Eric Rise, Associate Chair, Sociology and Criminal Justice

Nafissatou Dicko, Criminal Justice (McNair) (UD)
Susan Miller, Sociology and Criminal Justice
After the Relationship Ends: Post-Termination Issues Faced by Battered Women with Children

Kaitlin Mitchell, Criminal Justice (McNair) (UD)
Ruth Fleury-Steiner, Human Development and Family Studies
Knowledge of Reproductive Coercion Among Delaware’s Health

Abigail Samuels, Political Science / Women’s Studies (SS) (UD)
Susan Miller, Sociology and Criminal Justice
Paper Abuse: When Domestic Violence Batterers Use the System to Abuse Their Victim

Akilah Alleyne, Human Services (McNair) (UD)
Chrysanthi Leon, Sociology and Criminal Justice
Specialized Court Analysis (Mental Health and Prostitution Courts)
**10:10 -11:10  Oral Session 2**

**ENGAGEMENT IN THE ARTS**  
(ROOM 119)

**Moderator: Vicki Cassman, Art Conservation**

Laura Cohen, Dean's Scholar in Music Management (SS) (UD)
Margaret Andersen, Sociology and Criminal Justice  
_Fostering Racial and Economic Diversity in Performing Arts Organizations_
Katie Bonanno, Art Conservation (SL) (UD)
Vicki Cassman, Art Conservation  
Community Partners: UD Museums & New London Rd Community  
_Bridging Communities through Museum Outreach_
Emily Cummins & Boxi Eddy Liu, Art Conservation (SL) (UD)
Vicki Cassman, Art Conservation  
Community Partner: Winterthur Museum, Garden & Library  
_Terrific Tuesdays_
Andrew Connell, Biological Sciences (ArtsBridge) (UD)
Lynnette Overby, Theatre  
_Unearthing Composition: Developing a Soil and Visual Arts Integrated Curriculum_

**COMMUNICATION**  
(ROOM 120)

**Moderator: Jennifer Lambe, Acting Chair, Communication**

Michelle Morreale, History/International Relations (SS) (UD)
Paul Brewer, Communication  
_Real News about “Fake News”_
Laura Broomell, Communication (SS) (UD)
Lindsay Hoffman, Communication  
_He Said What?!: Examining Voter Perceptions of Political Candidates_
Greg Doolittle, International Relations (Social Sciences Diversity Scholar) (UD)
James Jones, Psychology  
_Survey on Diversity Attitudes of Undergraduates at the University of Delaware Campus_

**EDUCATION**  
(ROOM 123)

**Moderator: Ralph Ferretti, Director, School of Education**

Kelsey Scharmberg, Elementary Teacher Education (A&H) (UD)
Amanda Jansen, School of Education  
_Exploring How Teachers Use Representations to Convey Understanding in Elementary Mathematics Classrooms_
Sophie Bandlow, Elementary Teacher Education (SL) (UD)
Eugene Matusov, School of Education  
Community Partner: Boys & Girls Club of Wilmington  
_Guided Discovery: An Improved Way to Teach Math so Everyone Learns Proficiently_
Jennifer Ryan, Elementary Teacher Education (ArtsBridge) (UD)
Lynnette Overby, Theatre  
_Math That Moves You_
Arooj Latif, Medical Laboratory Sciences (SS) (UD)
Roberta Golinkoff, School of Education  
_Understanding Waiting Rooms to Bridge Language Gaps Between SES_

**FOOD, NUTRITION & EXERCISE**  
(ROOM 125)

**Moderator: Elizabeth Orsega-Smith, Behavioral Health and Nutrition**

Milagros Chiri-Zapata, Anthropology (SL) (UD)
Carla Guerroon-Montero, Anthropology  
Community Partner: Food Bank of Delaware  
_The Role of Food Banks and their Effect on Underrepresented Groups: Strategies for Reaching out to the Latino Community_
Kathryn Hickey, Food and Agribusiness Marketing and Management, (Extension Scholars) (UD)
Sue Snider, New Castle County Cooperative Extension  
_Are You Up for the Challenge?_
Alexandra Farrell, Jenna Ferguson & Kathryn Plante, Health Behavior Science (SL) (UD)
Elizabeth Orsega-Smith, Behavioral Health & Nutrition  
Community Partners: Claymore Senior Center & Jewish Family Services  
_Challenging Balance in Older Adults Using the Wii Fit Balance Program_
Emily Duszak & Jillian Sullivan, Health Behavior Science (SL) (UD)
Elizabeth Orsega-Smith, Behavioral Health and Nutrition  
Community Partner: Howard Weston Senior Center  
_KINECTing Generations Through Exercise... An Intergenerational Approach to Increasing Physical Activity!_
HISTORY/ART HISTORY/ ECONOMIC HISTORY (ROOM 119)

Moderator: Farley Grubb, Economics

Michael D'Antonio, History (A&H) (UD)
Daniel Callahan, History
The Chrysobull of 1082 and Its Effect on Latin/Greek Social Relations

Geena Hoffner, History (A&H) (UD)
Daniel Callahan, History
‘Beowulf’ to ‘The Song of Roland:’ 11th Century English Literature in Context

Elizabeth Diker, Art History (A&H) (UD)
Lawrence Nees, Art History
The Odour of Sanctity: Analysis, Uses, and Storage of Frankincense

Omar Duran, Spanish Studies/Art History (McNair) (UD)
Monica Dominguez-Torres, Art History
Observing Invisible Corpses: Gender and Violence in Teresa Margolles’s “Embroidered Fabric”

Lucero Pizano, Economics (McNair) (UD)
Farley Grubb, Economics
Statistical Properties of Colonial New Jersey’s Monetary System from 1709 to 1775

URBAN EDUCATION & ECONOMICS (ROOM 120)

Moderator: Kimberly Saunders, Director, McNair Scholar Program

Neraliz Diaz, Sociology/Criminal Justice (McNair) (UD)
Yasser Payne, Black American Studies
Prisoner Reentry Programs: Attitudes and Experiences among Street Life Oriented Black Men

Melany Justice, Public Policy (McNair) (UD)
Theodore Davis, Political Science and International Relations
Addressing the Educational Attainment Gap in Delaware: African-Americans Dropping Out

Binta Bah, Women and Gender Studies (McNair) (UD)
Caroll Izard, Psychology
Factors Influencing Achievement amongst Immigrant College Students

Hillary Khan, Economics/Finance (SS) (UD)
Yasser Payne, Black American Studies
Employment as Viewed by Young Adults in Wilmington’s Low-Income Black Communities

ART/DANCE / CREATIVE WRITING (ROOM 123)

Moderator: Janet Hethorn, Chair, Department of Art

Sarah Driver, Anthropology/Art (A&H) (UD)
Jonathan Cox, Art
A Cultural Mapping Initiative of an Indigenous People of Peru

Preston Klinke, Art (A&H) (UD)
Abigail Donovan, Art
The World is an Ashtray

Ben Gallegos, Visual Communication (SL) (UD)
Jon Cox, Art
Community Partner: Midtown Brandywine
Pocket Park and 2014 UD Philadelphia Flower Show Design

Audrey Wright, History (Diversity Scholar) (UD)
Lynnette Overby, Theatre
Performing African American History-The Life of Dave the Potter

Alyssa Sharrock, English/Women’s Studies (SS) (UD)
Jennifer Naccarelli, Women and Gender Studies
If No One Welcomes You, Shake the Dust As You Leave

HEALTH RELATED SCIENCE & ENGINEERING (ROOM 125)

Moderator: Steve Beighley, URP Program Assistant

Xiaoyu (Dave) Gu, Mechanical Engineering (CBER SURF) (UD)
Liyun Wang, Mechanical Engineering
Does Physical Exercise Rescue Weak Bone Phenotype in Diabetic Patients?

Nicholas Rios, Statistics (SS) (UD)
Jong Soo Lee, Statistics
Cost-Benefit Analysis of a New Screening Method for Cervical Cancer

Zachary March, Chemistry (S&E) (UD)
David Colby, Chemical and Biomolecular Engineering
Detection of Misfolded Tau Protein in Alzheimer’s Disease Cerebrospinal Fluid

Adam Ramsaran, Neuroscience (McNair) (UD)
Mark Stanton, Psychology
Ontogeny of Object-in-Context Learning in the Rat
1:30 – 2:30 Oral Session 4

MUSIC EDUCATION (ROOM 119)

Moderator: Russell Murray, Associate Chair, Music

Regina Cordell, Music (A&H) (UD)
Lawrence Stomberg, Music
Music Memorization Demystified
Elizabeth Rivera, Music (A&H) (UD)
Duane Cottrell, Music
Inclusion in the Choral Classroom: Finding Information to Foster Opportunity
Aimee Pearsall, Music (A&H) (UD)
Suzanne Burton, Music
Young Children’s Preferences for Musical iPad Apps
Stephanie Espie, Sarah Kutash & Trey Williams, Music Education (SL) (UD)
Suzanne Burton, Music
ProjectMUSIC: Music Uniting Students Inspiring Communities

INTERNATIONAL RELATIONS (ROOM 120)

Moderator: Eric Tranby, Sociology and Criminal Justice

Kyla Alterman, International Relations (SS) (UD)
Muqtedar Khan, International Relations
American Jewish Advocacy for Israel: How U.S. Pro-Israel Organizations Educate and Influence Advocacy in Young Adults and its Effect on the Israeli-Palestinian Conflict
Dana Yeliseyev, International Relations (SS) (UD)
Eric Tranby, Sociology and Criminal Justice
Rhetoric in Sex Trafficking Discourse: NGO Activity and the Feminist Sex Wars in Thailand
Kevin Zhang, Foreign Languages and Literatures (A&H) (UD)
Ali Alalou, Foreign Languages and Literatures
Qui sommes-nous? Language and Identity in Morocco
Cady Zuvich, Political Science (SS) (UD)
Lindsay Hoffman, Communication
Perceptions of Distant Others: A Comparison of Twitter and Weibo Posts about U.S.-China Relations

COOPERATIVE EXTENSION (ROOM 123)

Moderator: Michelle Rodgers, Associate Dean and Director of Cooperative Extension and Outreach

Sara Jastrebski, Pre-Veterinary Medicine and Animal Biosciences (Extension Scholars) (UD)
Susan Garey, Kent County Cooperative Extension
Animal Science Summer Extension Experiences
Deanna Lentini, Agriculture Education (Extension Scholars) (UD)
Carissa Wickens, New Castle County Cooperative Extension/Animal and Food Sciences
Experts Extending Knowledge Through Cooperative Extension
Natalie Cook, Education and Human Development (Extension Scholars) (UD)
Patricia Nelson, New Castle County Cooperative Extension
Engaging Stakeholders in Evaluating Just in Time Parenting, an eXtension Resource

HEALTH & MOVEMENT (ROOM 125)

Moderator: Lynnette Overby, Director, Office of Undergraduate Research and Experiential Learning

Brian Shinn, Paige Spence & Erin Wootten, Health and Physical Education (SL) (UD)
Iva Obrusnikova, Behavioral Health and Nutrition Community Partner: UD Early Learning Center
The Effects of Videomodeling on Motor Skill Acquisition and On-Task Behavior of Preschool Children
Laura Sahd, Dietetics (A&H) (UD)
Sarah Vennard, Theatre
Teaching Healthy Habits with Movement
Quinn Abbott & Nate Elder, Health and Physical Education (SL) (UD)
Karen Edwards, Behavioral Health and Nutrition Community Partner: Girls,Inc.
How Does Improved Confidence and Knowledge of Exercise Effect Fitnessgram Scores?
Oluwatimilehin Adeyemo, Human Services (McNair) (UD)
Mia Papas, Behavioral Health and Nutrition
Understanding Barriers to Care: A Review of Disability Services in Delaware
LITERATURE  
(Room 119)

Moderator: John Ernest, Chair, English

Cristina Cruz, Spanish/Sociology (A&H) (UD)
Phillip Penix-Tadsen, Foreign Languages and Literatures
Mother-Daughter Relationships in Contemporary Latina Literature
Alex Lindstrom, English (A&H) (UD)
D. Heyward Brock, English
Jack London: The Man and the Controversy
Arpita Mandal, English Education (Ethel and Donald Hofmann Scholar/McNair) (UD)
Michael Cotsell, English
Victims of ‘Honor’ Tradition
Ethan Clark, English (A&H) (UD)
Thomas Powers, Philosophy
A Literary Dystopia for the Modern World

RELIGION/PSYCHOLOGY  (Room 123)

Moderator: Alan Fox, Philosophy

Michael Cohen, Philosophy (A&H) (UD)
Alan Fox, Philosophy
Zoroastrianism, Ancient Judaism and the Dead Sea Scrolls
Emily Bange, Anthropology (SS) (UD)
Eric Tranby, Sociology and Criminal Justice
Distrust of Atheists: the Impact of Religion and Social Environment
Darren Agboh, Psychology (McNair) (UD)
Samuel Gaertner, Psychology
An Invitation to Friendship as a Method of Reducing Bias

INTERVENTION  (Room 125)

Moderator: Cynthia Robbins, Sociology and Criminal Justice

Lakeisha Smith, Psychology (McNair) (UD)
Cynthia Robbins, Sociology and Criminal Justice
Mediating the Effects of Parental Incarceration; Does the Source of Support Alter Behavioral Outcomes?
Zidan Zhang, Finance (SS) (UD)
Cynthia Robbins, Sociology and Criminal Justice
Parental Incarceration and Its Effects on Boys’ and Girls’ Delinquency
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