40TH ANNUAL
HONORS DAY
IN PROUD RECOGNITION OF OUR DSU STUDENTS

APRIL 4, 2013

SCHEDULE OF STUDENT PAPER PRESENTATIONS

2 p.m.
Bank of America Building

“With Honor & Distinction”
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40th Annual Honors Day Program
Student Paper Presentations - Session I
Bank of America Building Room 201

Presiding: Dr. Jan E. Christopher, Department of Accounting, Economics & Finance

2:00-2:15  The Conspiracy of the 2008 Housing Market Crash
Presenter Name: Domonique Cooper
Faculty Advisor: Dr. Jan E. Christopher

2:15-2:30  Got Student Loan Debt? Steady Rise in College Tuition Leads to Increased Student Loan Debt
Presenter Name: Ishmael T. Djan
Faculty Advisor: Dr. Jan E. Christopher

2:30-2:45  PNC: Has Improvement Caused its Growth and Consistent Rise?
Presenter Name: Kyle M. Upchurch
Faculty Advisor: Dr. Jan E. Christopher

2:45-3:00  Euro Debt Crisis = Economic Global Recession?
Presenter Name: Olusegun M. Ayanbiola
Faculty Advisor: Dr. Jan E. Christopher

3:00-3:15  The Impact of Building the Barclays Center in Brooklyn, New York
Presenter Name: Ryan Carter
Faculty Advisor: Dr. Jan E. Christopher

3:15-3:30  Too Big to Fail: The Reconstruction of Financial Institutions
Presenter Name: Keith Gauff
Faculty Advisor: Dr. Jan E. Christopher

3:30-3:45  Organizational Change
Presenter Name: Mariah Edwards
Faculty Advisor: Dr. Winston Awadzi

3:45-4:00  Going Green in Lodging Operations
Presenter Name: Samantha Whaley
Faculty Advisor: Dr. Cynthia Mayo
40th Annual Honors Day Program
Student Paper Presentations - Session II
Bank of America Building Room 217
Presiding: Dr. Gulnihal Ozbay, Department of Agriculture & Natural Resources

2:00-2:15  The Effect of a Small Ruminant Farm Operation and Sustainable Management Practices on Run-Off and Soil Quality
Presenter Name: Akida Ferguson
Faculty Advisor: Dr. Gulnihal Ozbay

2:15-2:30  Determining the Population Density of the Freshwater Mussel (Elliptio complanata) in the Brandywine Creek
Presenter Name: Andrew Kluge
Faculty Advisor: Dr. Gulnihal Ozbay

2:30-2:45  Soil and Water Quality Monitoring in Poultry Farm in Dover, Delaware: Environmental Assessment of Heavy Use Area Protection Pads
Presenter Name: Eunice F. Handy
Faculty Advisor: Dr. Gulnihal Ozbay

2:45-3:00  The Impact of Corn Based Ethanol on the United States’ Economy
Presenter Name: Gabrielle Delima
Faculty Advisor: Dr. Richard Bieker

3:00-3:15  The Host: Bats Function as Individual Ecosystem
Presenter Name: Jere’ Hutson
Faculty Advisor: Dr. Kevina Vulinec

3:15-3:30  The Chemistry of Soil and Water in the College Woods
Presenter Name: Shaunay Burns
Faculty Advisor: Dr. Mingzin Guo

3:30-3:45  Surveying small flock owners about why they like to keep chickens using clicker technology
Presenter Name: Brittany Lister
Faculty Advisor: Dr. Brigid McCrea

3:45-4:00  Heterologous Expression of a Bacterial Lignin Peroxidase in Transgenic Nicotiana Benthamiana
Presenter Name: Olewole Olufowo
Faculty Advisor: Dr. Bertrand Hankoua
40th Annual Honors Day Program
Student Paper Presentations - Session III
Bank of America Building Room 205
Presiding: Dr. Charlie Wilson, Department of Biological Sciences

2:00-2:15  Time Release Delivery of Oxytocin using Chitosan Nanoparticles
Presenter Name: Jia Dixon
Faculty Advisor: Dr. Cherese Winstead

2:15-2:30  Enhancing Drug Delivery and Solubility of Temozolomide using Chitosan Nanoparticles
Presenter Name: Ikea Paddy
Faculty Advisor: Dr. Cherese Winstead

2:30-2:45  Biopolymer functionalized Nanodiamonds
Presenter Name: Samuel Q. Jenifer
Faculty Advisor: Dr. Cherese Winstead

2:45-3:00  Correlation of breast density with calculated risk for breast cancer: A preliminary study.
Presenter Name: Mariah Wilson
Faculty Advisor: Dr. Charlie Wilson

3:00-3:15  UV Irridation of Salmonella spp. on Aluminum and Glass Cutting Boards
Presenter Name: Natasshia Nealouis
Faculty Advisor: Dr. Clytrice Watson

3:15-3:30  Validation of Cooked meat via Mitochondrial DNA and Polymerase Chain Reaction
Presenter Name: Briana Johnson
Faculty Advisor: Dr. Clytrice Watson

3:30-3:45  UV Irradiation and the Reduction of DNA Concentrations from Porcine Blood
Presenter Name: Tamika Hare
Faculty Advisor: Dr. Clytrice Watson

3:45-4:00  UV Irradiation of Salmonella spp. on Bamboo and Plastic Cutting Boards
Presenter Name: Megan McDonald
Faculty Advisor: Dr. Clytrice Watson
40th Annual Honors Day Program
Student Paper Presentations - Session IV
Bank of America Building Room 206
Presiding: Dr. Niklas Robinson, History, Political Science & Philosophy

2:00-2:15  The Effects of Anti-CxCr4 on the MapK pathway in IMR-32 cells.
          Presenter Name: Tahvolia D. Cartwright
          Faculty Advisor: Dr. Cynthia M. van Golen

2:15-2:30  IGF-1 and WISP3 (LIBC) in Inflammatory Breast Cancer
          Presenter Name: Sydney Sudler
          Faculty Advisor: Dr. Cynthia M. van Golen

2:30-2:45  Mechanisms Underlying Bone Metastasis in Human Neuroblastoma
          Presenter Name: Sonya Inderbitzin
          Faculty Advisor: Dr. Cynthia M. van Golen

2:45-3:00  Characterization of a C. elegans gpa-16 mutant that codes for a G-\alpha sub-uni
          Presenter Name: Diamond Moore
          Faculty Advisor: Dr. Harb S. Dhillon

3:00-3:15  Alternate Splicning Of A Neurotransmitter Receptor
          Presenter Name: Roderick King
          Faculty Advisor: Dr. Harb S. Dhillon

3:15-3:30  Analysis of CD44-mediated Cell Migration of MCF-7 Breast Cancer Cell Line
          Presenter Name: Ciara Graveley
          Faculty Advisor: Dr. Karl E. Miletti

3:30-3:45  Modulation of the CD44-mediated phenotype in breast cancer cells
          Presenter Name: Yanique W. Conie
          Faculty Advisor: Dr. Karl E. Miletti

3:45-4:00  CD44 mRNA stability is regulated by HuR in ovarian cancer cells
          Presenter Name: Rebecca Sahraoui
          Faculty Advisor: Dr. Karl E. Miletti
40th Annual Honors Day Program
Student Paper Presentations - Session V

Bank of America Building Room 208
Presiding: Dr. Myrna Nurse, English & Foreign Languages

2:00-2:15  Multielectrode recording of the Spinal Cords slice from Wild type & S.M.A. Mice Model
Presenter Name: David Lipscomb
Faculty Advisor: Dr. Melissa Harrington

2:15-2:30  Motor Neurons Differentiated from Embryonic Stem Cells as a Model to Study Spinal Muscular Atrophy
Presenter Name: Sunita Anvari
Faculty Advisor: Dr. Melissa Harrington

2:30-2:45  Differences in Synaptic Development and Network Activity in Embryonic Neurons from the CNS Cultured Alone and with Glial Cells
Presenter Name: Everado Paneda
Faculty Advisor: Dr. Murali Temburni

2:45-3:00  Role of APC and PSD93 in neurite extension
Presenter Name: Chanel Paul
Faculty Advisor: Dr. Murali Temburni

3:00-3:15  Lipid Production and Growth of Chlorella vulgaris in Fe3+ Concentrations
Presenter Name: Brittney N. Watson
Faculty Advisor: Dr. Nianjun Xu

3:15-3:30  Physiological Responses in Common Bean (Phaseolus vulgaris) to Rust Infection
Presenter Name: Kadijah Friday
Faculty Advisor: Dr. Sathya Elavarthi

3:30-3:45  Fatty Acid Profile of Egg Yolk Lipids from Hens Fed Diets Supplemented with Omega-3 Fatty Acids
Presenter Name: Kristen Hyland
Faculty Advisor: Dr. Stephen E. Lumor

3:45-4:00  Understanding epigenomics of susceptibility in the common bean-bean rust interaction
Presenter Name: Kasey Cosden
Faculty Advisor: Dr. Venu Kalavacharla
40th Annual Honors Day Program
Student Paper Presentations - Session VI
Bank of America Building Room 213
Presiding: Ms. Ava Perrine, Department of Mass Communications

2:00-2:15  **Cyclic voltammetry studies of gold organometallics Bu4N[AuL2]**
(L=C6Cl5, C6F5, and C6F3Cl2)
Presenter Name: Jasmine Nathaniel
Faculty Advisor: Dr. Bizuneh Workie

2:15-2:30  **Electrospinning PLA nanofibers containing Ibuprofen for Wound Healing Applications**
Presenter Name: Lewis Q. Lott
Faculty Advisor: Dr. Dula Man

2:30-2:45  **Bioinspired Ion Recognition in Hexanuclear Copper Pyrazolate Metallacycles**
Presenter Name: Allen Benson
Faculty Advisor: Dr. Ahmed A. Mohamed

2:45-3:00  **Detection of Mixed Infections between Two Cassava Geminiviruses Using Polymerase Chain Reaction (PCR)**
Presenter Name: Suwah Waitieh-Kabehl
Faculty Advisor: Dr. Vincent Fondong

3:00-3:15  **Detection of Mixed Infections between Two Cassava Geminiviruses Using Polymerase Chain Reaction (PCR)**
Presenter Name: Wendi Vatrese Clark
Faculty Advisor: Dr. Vincent Fondong

3:15-3:30  **Evolutionary Algorithms and Fuzzy Logic-based Construction, Tuning, and Analysis of Neuronal Models.**
Presenter Name: Emlyne Forren
Faculty Advisor: Dr. Tomasz G. Smolinski

3:30-3:45  **Fuzzy Control in Modeling of Neurons.**
Presenter Name: Myles Johnson-Gray
Faculty Advisor: Dr. Tomasz G. Smolinski
40th Annual Honors Day Program
Student Paper Presentations - Session VII
Bank of America Building Room 301
Presiding: Dr. Gholam Kibria, Department of Education

2:00-2:15 Strategies for Teaching Students with Autism Spectrum Disorders (ASD)
Presenter Name: Michael Katz
Faculty Advisor: Dr. Gholam Kibria

2:15-2:30 Destiny and Darius: From Pre-schematic to Schematic Stage in Art
Presenter Name: Dajona Cook
Faculty Advisor: Dr. Hazel Bradshaw-Beaumont

2:30-2:45 Scarce Commodity: Black Aviators
Presenter Name: Devon Sivels
Faculty Advisor: Dr. Hans Reigle

2:45-3:00 Art in Science: Photosynthesis
Presenter Name: Laura M. Dawson
Faculty Advisor: Dr. Hazel Bradshaw-Beaumont

3:00-3:15 Identification of DNAse Bacterial Populations on Catfish During Refrigerated Storage
Presenter Name: Michael D. Hickey
Faculty Advisor: Dr. Jung-lim Lee

3:15-3:30 Binge Eating Disorder: Teenage Girls
Presenter Name: Tamara Wills
Faculty Advisor: Ms. Julia Olsen

3:30-3:45 Study of DNase and Protease Producing Bacteria on Catfish Spoilag
Presenter Name: Gina Accumanno
Faculty Advisor: Dr. Jung-lim Lee

3:45-4:00 Dying from Dyes
Presenter Name: Sydney M. Pearsall
Faculty Advisor: Dr. Jungmi Oh
## 40th Annual Honors Day Program

**Student Paper Presentations - Session VIII**

**Bank of America Building Room 314**

Presiding: Dr. Francine Edwards, Department of Mass Communications

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter Name</th>
<th>Faculty Advisor</th>
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</thead>
<tbody>
<tr>
<td>2:00-2:15</td>
<td><strong>A Study of Prehistoric Ceramics</strong></td>
<td>Patricia Deel</td>
<td>Dr. Donald W. Becker</td>
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<tr>
<td>2:15-2:30</td>
<td><strong>Oskar Fichinger Modern art</strong></td>
<td>Safe Lewis</td>
<td>Dr. Donald W. Becker</td>
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<td>2:30-2:45</td>
<td><strong>Is Voltaire Outdated?</strong></td>
<td>Kathia Masseus</td>
<td>Dr. Susmita Roye</td>
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<tr>
<td>2:45-3:00</td>
<td><strong>Marginalized Migrants' Self-Rate Resilience: A Case of Old Fadama, Accra</strong></td>
<td>Sean Walker</td>
<td>Dr. Raymond Tutu</td>
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<tr>
<td>3:00-3:15</td>
<td><strong>Honor's Day: A Social Media Perspective</strong></td>
<td>Dorian McDonald</td>
<td>Dr. Francine Edwards</td>
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<tr>
<td>3:15-3:30</td>
<td><strong>Childhood Obesity</strong></td>
<td>Taylor Richard</td>
<td>Dr. Sonya McCray</td>
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<tr>
<td>3:30-3:45</td>
<td><strong>Overrepresentation of Black Males in Ontario Prisons</strong></td>
<td>Schanea Ward</td>
<td>Dr. Marc Felizzi</td>
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<tr>
<td>3:45-4:00</td>
<td><strong>Why Increasing Maternal Education is Not an Important Predictor of Infant Survival for Black Non-Hispanic: Using the Life Course Approach</strong></td>
<td>Delvise Fogwe</td>
<td>Dr. Agnes Richardson</td>
</tr>
<tr>
<td>3:45-4:00</td>
<td><strong>ABDs in HBCUs</strong></td>
<td>ReShawn Johnson</td>
<td>Dr. Myrna Nurse</td>
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</tbody>
</table>
Absorbance and Photothermal Lens Spectra of Scattering Light Dye Solutions  
Presenter Name: Aaron Villete  
Faculty Advisor: Dr. Aristides Marcano

Light scattering spectra in the presence of absorption  
Presenter Name: Gregory D. Jones, Jr.  
Faculty Advisor: Dr. Aristides Marcano

Numerical Simulation for Atmospheric Propagation of Angular Momentum Beams  
Presenter Name: David Riser  
Faculty Advisor: Dr. Gour Pati

Study of Surface Plasmon Wave using a Thin Gold Film in the Kretschmann Configuration  
Presenter Name: Sierra Harris  
Faculty Advisor: Dr. Gour Pati

Design and building of a plane illumination microscope for live-specimens  
Presenter Name: Chenelle King  
Faculty Advisor: Dr. Thomas Planchon

Optical methods for 3D fluorescent microscopy of live specimens  
Presenter Name: Miranda Spina  
Faculty Advisor: Dr. Thomas Planchon

Laser Induced Breakdown Spectroscopy and Microscopy of Micro-Particles for Assay Development  
Presenter Name: Christopher Collins  
Faculty Advisor: Dr. Yuri Markushin

Passive and avidin/ biotin-specific types of protein interaction with micro particles  
Presenter Name: Folawiyo Popoola  
Faculty Advisor: Dr. Yuri Markushin
40th Annual Honors Day Program
Student Paper Presentations - Session X
Bank of America Building Room 111
Presiding: Dr. Mukti Rana, Physics & Engineering

2:00-2:15  Finite-Difference Time-Domain simulations of superscattering
Presenter Name: Brandon Dogan
Faculty Advisor: Dr. Jinjie Liu

2:15-2:30  Numerical Solution to Maxwell's equations with applications to Optics
Presenter Name: Heaven Thomas
Faculty Advisor: Dr. Jinjie Liu

2:30-2:45  Designing an integrated thermal thermal detector with micro-mirror
Presenter Name: Jebari Weekes
Faculty Advisor: Dr. Mukti Rana

2:45-3:00  Designing a Tunable Micromirror by Finite Element Analysis
Presenter Name: Louis Campbell
Faculty Advisor: Dr. Mukti Rana

3:00-3:15  Biophysical Characterization of Poly (ethylene glycol) Using Refractometry and Confocal Fluorescence Microscopy
Presenter Name: Lennea Davis
Faculty Advisor: Dr. Qi Lu

3:15-3:30  Designing a Polarimeter for a Scanning LADAR System
Presenter Name: Nicholas Calvano
Faculty Advisor: Dr. Renu Tripathi

3:30-3:45  Dispersion Measurements using time-domain Optical Coherence Tomography
Presenter Name: Christopher Sansbury-Debardel
Faculty Advisor: Dr. Renu Tripathi
40th Annual Honors Day Program  
Student Paper Presentations - Session XI  
Bank of America Building Room 105  
Presiding: Dr. Hacene Boukari, Physics & Engineering

2:00-2:15  Imaging using Differential Interference Contrast (DIC) microscopy  
Presenter Name: Janae Cosby  
Faculty Advisor: Dr. Wafa Amir

2:15-2:30  Dynamic Light Scattering and Fluorescence Imaging of Concentrated Ficoll Solutions  
Presenter Name: Danielle Ferguson  
Faculty Advisor: Dr. Hacene Boukari

2:30-2:45  Probing Sickle-Cell Hemoglobin Polymers with Polarization Microscopy  
Presenter Name: Yajiao Zhao  
Faculty Advisor: Dr. Hacene Boukari

2:45-3:00  Movements of Microbeads in Gynol II Biogel  
Presenter Name: Martha Gwengi  
Faculty Advisor: Dr. Hacene Boukari

3:00-3:15  The Effect of Mixed Conducting and Insulating Wall Segments on the MHD Duct Problem.  
Presenter Name: Jason Cornelius  
Faculty Advisor: Dr. Pablo Súarez

3:15-3:30  Finite-Difference Time-Domain Simulation of Metamaterial  
Presenter Name: Michael C. Sanchez  
Faculty Advisor: Dr. Jinjie Liu

3:30-3:45  Optical Gaussons in Nonlinear Directional Couplers  
Presenter Name: Brielle Sutton  
Faculty Advisor: Dr. Dawn A. Lott

3:45-4:00  The Averaging Methods for the Dispersion Managed Nonlinear Schrödinger Equation  
Presenter Name: Anwar Atif  
Faculty Advisor: Dr. Dawn A. Lott