FIRST ANNUAL SUNY UNDERGRADUATE RESEARCH CONFERENCE

APRIL 10, 2015
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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</thead>
<tbody>
<tr>
<td>8:30 – Noon</td>
<td><strong>Registration – SERC Foyer</strong> Coffee &amp; light refreshments served 8:30-9:30 am</td>
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<tr>
<td>8:30 – 9 am</td>
<td><strong>DANCE Registration – Hartwell Hall Lobby</strong> for ALL Dance Students &amp; Faculty</td>
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<tr>
<td>9 – 10:30 am</td>
<td><strong>Dance Master Classes – Hartwell Hall</strong> See program for details and locations</td>
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<tr>
<td>9:30 – 11 am</td>
<td><strong>Oral Presentation Session I</strong> See program for details and locations</td>
</tr>
<tr>
<td>10:45 am – Noon</td>
<td><strong>SURC Dance Performances – Hartwell Hall Dance Theater</strong></td>
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<tr>
<td>11 am – 3 pm</td>
<td><strong>SUNY Graduate School and Study Abroad Fair in SERC House of Fields</strong></td>
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<tr>
<td>11:15 am – Noon</td>
<td><strong>Poster Session I – SERC House of Fields</strong> Welcoming Remarks –</td>
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<tr>
<td>Noon – 1:45 pm</td>
<td><strong>Luncheon – SERC House of Fields</strong></td>
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<tr>
<td>Noon – 1:45 pm</td>
<td><strong>Keynote Address – SERC House of Fields</strong> Speaker - George D. Kuh</td>
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<tr>
<td>2 – 2:45 pm</td>
<td><strong>Poster Session II – SERC House of Fields</strong></td>
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<tr>
<td>3 – 4 pm</td>
<td><strong>Post-Graduate Study &amp; Career Workshops – Edwards Hall</strong> for ALL students</td>
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<tr>
<td>3 – 4 pm</td>
<td><strong>NSF and SUNY RF Grants Workshops - Edwards Hall</strong> for ALL Faculty</td>
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<tr>
<td>4 pm</td>
<td><strong>Dessert and Coffee in Hartwell Hall Lobby &amp; Liberal Arts Building Foyer</strong></td>
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<tr>
<td>4:15 – 5:30 pm</td>
<td><strong>Oral Presentation Session II</strong> See program for details and locations</td>
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Dear SUNY Students, Mentors, and Friends,

It is my great pleasure to welcome you to the first SUNY Undergraduate Research Conference (SURC). The conference highlights exceptional academic work by students across the disciplines and across our great SUNY system. Their accomplishments in laboratories, studios, libraries, and communities on and off campuses are testaments of their educational ambition and excellence. I also want to celebrate their mentors for ensuring that student research projects are of the highest quality.

Authentic learning, on display today at SURC, entails intellectually curious students honing academic skills through rigorous inquiry, problem solving, and communication with discerning audiences. SUNY's commitment to experiential education and applied learning is on display today at SURC.

At SUNY, we believe in the power of learning by doing. That's why we are working to ensure that every SUNY student will have access to an applied learning opportunity. Today's high-tech, global economy is fast-paced and moving forward every day, and we have to ensure that, above all else, we are preparing our students to be a part of it. This goal was put forth in the 2013 State of the University Address, and SURC demonstrates that SUNY is well on its way toward reaching that target.

My special thanks go to The College at Brockport for hosting this important event, keynote speaker George Kuh, workshop leaders, conference steering committee members, and most of all to the fine SUNY students and their mentors.

With best regards,

Nancy L. Zimpher
Chancellor
I'm delighted to extend a personal welcome to the inaugural SUNY Undergraduate Research Conference, hosted by The College at Brockport. Our College has had a long-standing commitment to the importance of undergraduate research, both through summer opportunities sponsored by the Brockport Foundation as well as our own Scholars Day, which we just celebrated on April 8 for the 32nd consecutive year. By celebrating the scholarly accomplishments of our students and faculty, we are reminded of the value of a multi-dimensional education extending beyond classroom walls. The efforts of these talented students — and those of their faculty mentors — open the world for students to define career paths and achieve the intellectual successes that we strive to develop in each and every SUNY student. You’ll also find a diversity of research which will assist the State of New York, our citizens, their quality of life, and beyond. Please enjoy the wide range of scholarly endeavors featured this 10th day of April and join us in celebrating student success in all of its creative forms.

John R. Halstead, PhD  
*President*  
The College at Brockport  
State University of New York
SURC 2015 Sponsors
The College at Brockport President John Halstead
The College at Brockport Provost Mary Ellen Zuckerman
SUNY University Faculty Senate
SUNY Research Foundation
New York State Senator Joseph Robach

Special Thanks
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SUNY Provost Alexander Cartwright
SUNY Student Assembly
SUNY Faculty Council of Community Colleges

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Marilyn Laistner
Myra Morgan
Shannon Peifer
Noah Rege
Phil Schneider
Daniel Steiner
Derek Stoll

Thank you to SURC 2015 Fair Representatives:
Kaplan Test Prep
Thank you for generously raffling an “On Demand Kaplan Course” valued up to $1899.
SURC 2015 ~ DANCE MASTER CLASSES
9 – 10:30 am

Karl Rogers, The College at Brockport: David Dorfman Repertory
Melanie Gambino, SUNY Purchase: Continuum
Vanessa VanWormer, The College at Brockport: Ballet

SURC 2015 ~ ORAL SESSION I
9:30 – 11 am

ANTHROPOLOGY, ARCHAEOLOGY

CHAIR: Ms. Natalie Heller
The Power of Revision on Lexical Cohesion in ESL Academic Writing
    Mark T. Romig, SUNY Geneseo
Deaf and Disability: Is It Just A Label?
    Jill Stewardson, The College at Brockport
A Comparative Osteometric Analysis of Ohio Hopewell Canid Remains
    John T. Blank, Jennifer M. Amico, SUNY Geneseo
Bladelets, Bones and Socially Constructed Gender Identities: Understanding Division of Labor among Ohio Hopewell Populations Based on Sex through the Analysis of Osteological Evidence
    Jenna Anderson, SUNY Geneseo
Whose Bones are These?
    Raymond W. Baird, The College at Brockport

ART HISTORY

CHAIR: Ms. Jenna Steinmiller
Yoko Ono: Emotions to Art
    Emily R. Henrich, The College at Brockport
Van Eyck's Mystic Lamb, element in Camus' La Chute
    Jacqueline R. Christensen, SUNY Geneseo
Uncovering a Feminist Spirituality: Christianity as a Visual Framework in Leonora Carrington's Iconography
    Chelsea P. Butkowski, SUNY Geneseo
Resolving Vicarious Traumatization through Artistic Practice
    Lana K. Slinkard, SUNY Oswego

BIOLOGICAL SCIENCES

CHAIR: Mr. Ian Shannon
The Effects of Ethanol on Courtship and Mating Preference in Drosophila melanogaster
    Weily Lang, Wai Lam, Brittany Johnson, LaGuardia Community College
Testing the Sensitivity of 32 Acetobacteraceae family bacteria to Bacteriophage 14g: Investigating Interactions among the Gut Microbiota of Drosophila melanogaster
    Aaron Matthews, SUNY Oswego
Comparison of Antimicrobial Properties of Kombucha Fermented from Green Tea, Black Tea and Yerba Mate
    Cameron Prophet, Alfred State College
Effects of Global System for Mobile Communication Radiation on Paramecia Tetraurelia
Samuele Weekes, Mostafa Elbery, SUNY Plattsburgh
Are You Anxious? Getting Cold Feet? Blame the Sympathetic Nervous System
Vincent Sharkey, Monroe Community College

**BIOLOGICAL SCIENCES**

**CHAIR:** Mr. Noah Reger

- Membrane Binding and Leakage Properties of Antimicrobial Peptide Maximin-3
  Pedro E. Lebron, SUNY Purchase
- Investigating Mechanisms of Cell Cycle Regulation during Germline Stem Cell Differentiation in Drosophila
  Mohammed A. Nasrallah, University at Albany
- Targeting the Methionine Salvage Pathway as a Metabolic Point of Leverage in Novel Therapeutic Approaches for Prostate Cancer
  Irianna M. Torres, University at Buffalo
- The Role of GNB4 and SULF2 in Human Oligodendrocyte Differentiation
  David A. Bratton, University at Buffalo
- The Effect of Adenosine Diphosphate on Platelets Induced by Shear Stress and Secondhand Smoke and its Role in Platelet Aggregation
  Sarah E. Georges, Stony Brook University
- Validation of Splice Altering Morpholino Knockdown of Anoctamin 1
  Maxwell Denora, The College at Brockport

**CHEMISTRY, CHEMICAL ENGINEERING**

**CHAIR:** Dr. Hossein Haghani

- Determination of the Ion Association Constant in Binary Solutions of (methanol + phosphonium ionic liquid) and (methanol + imidazolium ionic liquids)
  Colby Raymond, The College at Brockport
- Lead in Our Communities: A Chemical, Sociological and Public Health Analysis
  Lana M. Nitti, Mohawk Valley Community College
- Computational Study of Ionic Liquid Solvation
  Jeffrey Ellison, The College at Brockport
- A Novel Approach to Fabricating SERS Substrate: Deposition of Gold Nanoparticles on a Glass Surface via Vacuum-assisted Solvent Evaporation
  Eric J. Gauchat, Buffalo State College
- Optimizing Sonication and Chromatography Conditions in the Purification of LGN Protein for X-Ray Crystallography
  Ayman Huzair, Ryan Elnicki, Brandy M. Sreenilayam, The College at Brockport
- Citrate Content of Bone: A Potential Measure of Postmortem Interval
  Charles Froome, The College at Brockport

**COMMUNICATION, PUBLISHING, AND BUSINESS**

**CHAIR:** Ms. Myra Morgan

- Interactive Children’s Book Illustration and Design
  Mackenzie R. Gillett, SUNY Oswego
- The Perception of Athletes during a Negative Situation
  Michael Knapp, Jake Mastasio, The College at Brockport
iPad Application for Lettering
  Lorianne Weiss, Farmingdale State College

Ferguson, Missouri: The Michael Brown Story through Progressive, Conservative and Independent Lenses
  Emily Burkhard, The College at Brockport

Books and Censorship in the Modern Age - To Ban or Not to Ban?
  Shannon I. Mulstay, Empire State College

The Friends of Hospice Thrift Store Marketing Plan
  Gillian G. Sears, Kyle Noelle Cricillo, Cayuga Community College

**COMPUTER SCIENCE, SYSTEMS, AND SECURITY**

**CHAIR:** Ms. Marilyn Laistner

*Exploring Data Flow in Computer-Created Music*
  Max Sokolovsky, SUNY Oswego

*Distributed Computing Using a Raspberry Pi 2 Cluster*
  Riley Bauer, The College at Brockport

*Agent-Based Modeling to Analyze Micromotives vs. Macrobehaviors*
  Brandon Logan, SUNY Purchase

*Simulating and Assessing Search and Capture Strategies for the Pokémon Game*
  Cortney Dodge, SUNY Geneseo

**ENGLISH - LITERATURE**

**CHAIR:** Ms. Christina Hedding

*Defoe and Bebn: an Investigation of their Misunderstood Outcasts*
  Gary J. Ellison, SUNY Oswego

*Debased: Hemingway’s Not-So-Destructive Portrayal of Alcoholism in The Sun Also Rises*
  Matthew Treadwell, The College at Brockport

*Stein, Woolf, and Winterson Subvert Traditional Understandings of Time and Memory to Create Identity*
  Kelsey Radomski, SUNY Fredonia

*Women’s False Agency in Daniel Defoe’s Roxana and Aphra Behn’s The Lucky Mistake*
  Christine Talone, SUNY Oswego

*Subaltern Autonomy and Western Dependence in Mabesh Rao’s The Smoke Is Rising*
  James L. Cooper, SUNY Oswego

**ENGLISH - LITERATURE**

**CHAIR:** Ms. Monica Raminger

*No Sharper Steel, No Lovelier Treasure: The Cult of the Sword throughout History*
  Elizabeth L. Gellis, Binghamton University

*Distorting the Senses: the Traumatic Narrative of Brian Turner’s Phantom Noise*
  Christian J. Wessels, The College at Brockport

*Native Not Queer: Performance and Identity Conflict for Sherman Alexie’s Native Americans*
  Thomas Fitzgerald McCarthy, SUNY Geneseo

*From Narcissism to Empathy: Ibsen’s Plays in the Digital Age*
  Jeffrey T. Curtin, Monroe Community College
The Effect of Sampling Time on Camera Trap Results
Joseph Beck, Finger Lakes Community College

Neophobic Behavior and Life History Traits of House Sparrows (Passer domesticus)
Sara Grillo, The College at Brockport

Laura E. Jenkins, The College of Environmental Science & Forestry

Persistence Hunting: The Origin of Humans
Matthew Glaub, The College of Environmental Science & Forestry

"Saving Sea Turtles": Examining the Efficacy of American Conservation Efforts in Mexico
Megan F. Ewald, The College of Environmental Science & Forestry

The Effects of Avian Scavenging on the Decomposition of Sus scrofa
Brianna L. Robinson, SUNY Oswego

You are What You Eat-Use of Fatty Acid Signatures to Decipher Diet Composition
Sage M. Hallenbeck, The College at Brockport

Comparison of Macroinvertebrate Community Traits of Riffle and Pool Habitats from Wadeable Streams in the Allegheny Forest
Amy L. Westfall, The College at Brockport

Ceramic Water Filters for the Developing World
Kathryn P. Rozwod, University at Buffalo

The Effect of Temperature on Growth of Non-native Seaweed Species Gracilaria vermiculophyl a in the Long Island Sound as Compared to Native Gracilaria tikvahiae
Leah M. Gorman, SUNY Purchase

Population Genetics of Boufins (Amiidae) across the Laurentian Great Lakes
Madeline J. Clark, The College of Environmental Science & Forestry, SUNY

The Relationship between Local Socioeconomic Conditions and Macroinvertebrate Communities of Wadeable Streams Across the United States
Anna Palmer, SUNY Purchase

Lotus Steps: Looking at Footbinding from the Perspective of Participants
Margaret E. Luddy, SUNY Geneseo

Redec, Consciousness, and Resistance: Twentieth Century Revisionary Marxism on Global
Janna E. Nunziato, SUNY Geneseo

(Em)bodying the Frame, Enframing the Captive Body: Louis Agassiz’ Daguerreotypes, the
Scientific Observer and circumb-Atlantic Modernity in the mid-Nineteenth Century
Nikita Rumsey, SUNY Geneseo

Behind Closed and In Public Eyes: Communism and the 1953 Iranian Coup D’etat
Conner A. Wolfe, The College at Brockport

Pushing the Bounds of Numerical Ranges
Rayanne Luke, SUNY Geneseo
Numerical Ranges over Finite Fields
Douglas D. Knowles, SUNY Geneseo

There’s a Glitch in the Matrix!: Categorizing Numerical Ranges of Matrices
Jack A. Jenkins, SUNY Geneseo

The Golden Ladder
Weixin Wu, SUNY Purchase

Modeling Cooperation using Networks
Tom Hartvigsen, SUNY Geneseo

Utilizing LaTeX to Research Pathological Functions: The Continuous but Nowhere Differentiable
Tehmina Ashraf, Empire State College

PHYSICS, ASTRONOMY

Chair: Dr. Eric Monier

The Geodesic Structure of Non-asymptotically Flat 2-branes
Jesse C. Chandler, SUNY Cortland

Morphology of the Large Magellanic Cloud Using Classical Cepheids
Daniel Wysocki, SUNY Oswego

Cinema and Physics: How the Discoveries in Physics Led to Breakthrough in Cinema
Julia R. D’Rozario, SUNY Oswego

Conditional Entropy Methods for Period Detection in Variable Stars
Vincent Debiase, SUNY Oswego

Metallicity Determination for RR Lyraes Observed from CSTAR Telescopes in Antarctica
Kenneth Roffo, SUNY Oswego

Point Contact Spectroscopy: An Undergraduate Investigation into Quantum Criticality
Amanda M. Landcastle, The College at Brockport

POLITICAL SCIENCE, ECONOMICS, JUSTICE, AND SOCIOLOGY

Chair: Mr. Daniel Micciche

Rethinking the Internet and the May 2014 Election Outcomes for Young South Africans
Rebecca A. Miller, SUNY Geneseo

Do They Try: Why Do Some Countries Try Harder than Others in Preventing Human Trafficking?
Jane Ni, University at Albany

"Selfish, Lazy, Lonely, and Spoiled:" An Exploration of Stereotypes and the Experiences of the Only Child
Diandra Vivian Emsley, SUNY Purchase

Child Marriage: A Global Concern
Mariel Rivera, The College at Brockport

Explaining the Academic Gender Gap: Comparing Undergraduate and Graduate/Faculty Beliefs about Talent Required for Success in Academic Fields
Kimberlyn Bailey, SUNY Oswego

Is There a Cultural Divide in America?
Victoria N. Diana, Aundrea Durham, Katherine Chetney, Jessica Desoto, SUNY Oswego

PSYCHOLOGY

Chair: Ms. Jenna Mollura

The Impact of Rereading on Metacomprehension and Comprehension of Negation
Natasha D. Snyder, The College at Brockport

Self-Control, Impulsivity, and Delay Discounting in Children
Alyssa Button, Madeline Albano, Sydney Mancuso, The College at Brockport

5
Pitch Perception and Encoding Pitch Contours in College Aged Individuals with Autism Spectrum Disorder  
Danielle Williams, SUNY Purchase

Perception and Imitation of Vocally Expressed Emotion in Individuals with Autism Spectrum Disorder  
Danielle DeMaio, SUNY Purchase

Musical Commitment Predicts Sequence-learning Abilities both with and without Sound  
Devin Stack, SUNY Purchase

**PSYCHOLOGY**

**CHAIR:** Ms. Erin Bonafede

*Effects of Childhood Cancer and Hospitalization on Pre-school Aged Children: Benefits of Play Therapy and Movement Therapy*

  Abigail N. Graham, The College at Brockport

*Activities and Mindfulness*

  Jamie M. Tombari, The College at Brockport

*Meditation and Mindfulness*

  Adwoa A Opoku-Nsiah, The College at Brockport

*Mindfulness and Mood*

  Paul Alex Williams, The College at Brockport

*Mindfulness: A Mediated Model*

  Michael Annechino, The College at Brockport

*The Positive Effects of Pre-Marital Counseling on Identity*

  Marlisha Marcellin, Sullivan County Community College

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**SURC 2015 ~ DANCE PERFORMANCE SESSION**

**10:45 am – Noon**

**DANCE**

**CO-CHAIRS:** Ms. Vanessa VanWormer, Ms. Stephanie Oakes, Morgan Bernat

*Letters of Heroines*

  Justine C. Lazatin, Teresa Beckman, Danielle Hartnet, Molly Kindler, Megan Roberts, Morgan Schlossel, Alyssa Willmarth, SUNY Geneseo

*Ballet No Kata*

  Katherine Delorme, The College at Brockport

*Radiating Absence*

  Sarah Dodd, University at Buffalo

*Sonder*

  Megan Roberts, Nicole Bergamo, Brynn Davie, Kristen Czerwinski, Sophia Garber, Taylor Gerner, Teagan Plimpton, SUNY Geneseo

*Choreographic Exploration: Misappropriation in Hip Hop Dance*

  Emily K. Gerst, Chloe London, Nicole Woodcock, Nicole Grigonis, Mia Martelli, Melissa Froats, Dutch DeCarvalho, Nathaniel Diaz, The College at Brockport

*Denude*

  Maria R. Cwiklinski, University at Buffalo
Pieces of Intention
Jordan Lloyd, The College at Brockport

Continuum and the Creative Process
Liang MacMillan Lu; Sophia Rydlizky, Alexandra Shipman, Sherah Williams, Jada Wong, Hiu Ching, Sabrina Wyckoff, Sha Wynn Zheo, SUNY Purchase

Switching Gears
Marissa Subik, Brooke Armstrong, Skyler Bell, Nicole Grigonis, Jordan Lloyd, Mia Martelli, Christina Williams, The College at Brockport

SURC 2015 ~ POSTER SESSION I
11:15 am – Noon

POSTER CO-COORDINATORS, SESSION I: Ms. Gabrielle Clark, Mr. Jay Kenyon

ANTHROPOLOGY
Development and Curation of an Osteological Collection
Eric Schultz, Empire State College

ARTS AND HUMANITIES
The Lieder of Mathilde von Kralk, Newly Discovered
Sean Fahy, SUNY Potsdam

Graphic Flash: A Multimedia Collaborative Digital Project
Melissa Gottlieb, Mackenzie Gillett, Guilherme Riberio De Assis, Sarah Rose, Connor DeHaan, Ashley Bennett, SUNY Oswego

BIOLOGICAL SCIENCES
Understanding the Different Ecological Roles of Three Tilapia Species in Lake Turkana, Kenya,
Taylor Bouraad, Stony Brook University

Need for Cognition, Tolerance for Ambiguity, and Need for Closure between Majors
Zachary Longo, Kathy Tota, Nansi E. Has, SUNY Cortland

Size Divergence of Threespine Stickelback (Gasterosteus aculeatus)
Yuleisy Lanns, Suffolk County Community College

High Mobility Group B Proteins Modulate histone Methylation in Mouse Embryonic Fibroblasts
Oluwatoyosi Awotorebo, Suffolk County Community College

Sex-based Differences in C. elegans Responsiveness to Aversive Stimuli
Ronald A. Bola, Michelle C. Krzyzanowski, Jordan F. Wood, University at Buffalo

Study of the Unknown Extracellular Polymeric Substances (EPS) contained within Legionella pneumophila (Lpn) Biofilms
Casey Peterson, SUNY Cortland

Characterization and Identification of Isaria fumosorosea Metabolite
Velisha Guillaume, SUNY New Paltz

Analysis of the Drosophila melanogaster wnt5 Mutant’s Behavior towards Carbon Dioxide and Apple Cider Vinegar
Kendra Andrew, The College at Brockport

The Significance of the Nuclear Gene, SGS1, in Mitochondrial Genome Stability in Saccharomyces Cerevisiae
Kathryn Wershing, The College at Brockport
A Blueprint of the Striatal Medium Spiny Neuron Population in an Animal Model of Obsessive Compulsive Disorder
    Danielle Weeks, University at Albany

Associations between Oral and Systemic Health in Long-term Care Residents
    Summar Amin, University at Buffalo

The Abundance and Characteristics of Aquatic Tree Hole Communities in Three German Forests
    Roodline Cineus, SUNY Oswego

Protecting Open-Air Microalgal Culture Ponds from Zooplankton Contamination
    Sara Lawler, SUNY Fredonia

Generating a Novel Soybean Cultivar with Resistance to Nematode Infection and High Performance in Adverse Conditions by Overexpressing Cysteine Protease Inhibitor I
    Thien D. Luu, Timothy DeMarsh, The College of Agriculture & Technology at Cobleskill,
    SUNY

How the Cellular Environment Influences Hybrid Duplex Conformation
    Pakinee Phromsirim, Stephanie R. Gill, The College at Brockport

Transformation of Soy (Glycine max) for Heightened Expression of the SIZ1 Gene
    Tim DeMarsh, Thien D. Luu, The College of Agriculture & Technology at Cobleskill, SUNY

Towards Identifying the Antimicrobial Action of Maximin 3 from Bombina maxima Using GROMACS
    Thomas Lipscomb, SUNY Purchase

Effect of Histone Deacetylase Inhibition on Radiosensitivity of Primary Human Fibroblasts
    Following Charged Particle Irradiation
    Jonathan M. Millings, Benjamin Daniels, Leonard Chavannes, Lucia Kolodiuk, Katherine Z. Salidad, Alicia M. Johnson, Deborah Keszenman, Paul F. Wilson Jr., Paula Bennett, Suffolk County Community College

Agrobacterium-mediated Soybean Transformation
    Calé Ballard, The College of Agriculture & Technology at Cobleskill, SUNY

Analysis of Cardiac Ion Channels to Understand Arrhythmias Which Lead to Sudden Cardiac Death
    Amanda L. Miller, Summer L. Carbone, Casey S. Clark, Carolyn M. Entelisano, Matthew J. Betzenhauser, Mohawk Valley Community College – Utica Branch

Development and Identification of Soybean Plants with an Increased Tolerance to Osmotic Stress
    Emily Norton, Amanda Rhodes, The College of Agriculture & Technology at Cobleskill

Meprin Alpha Mediates CCL2 Activity in Murine Bone Marrow Cells Using a Model of Chemotherapy
    Maria Sena, Faoud Ishmael, Jamestown Community College

The Effect of Neuropeptide Y on Food-Induced Reinstatement and Vocalization in Rats
    Sarah J. Perrotta, University at Buffalo

The Effect of Vitamin k2 on ATP Production in CHO Cel
    Is Transfected with siRNA for UBIAD1
    Tracy Scott, Tompkins-Cortland Community College

CHEMISTRY, CHEMICAL ENGINEERING

Detection and Analysis of Gasoline Residues on Household Samples by Using Gas Chromatography
    Michael J. Swierczynski, Kelly Grau, Buffalo State College

Solvation Dynamics of Coumarin 153 in Binary Solvents
    Stephanie Robillard, The College at Brockport

Reversible Self-Assembly of Fluorescein Amyloid Beta Peptides over Gold Colloids
    Christa D. Cattafamo, SUNY Geneseo
Synthesis, Crystallographic Characterization and Computational Study of Two Polymorphs of 5,6-Dimethyl-2-(pyridin-2-yl)-1-{(pyridin-2-yl)methyl}-1Hbenzimidazole
Matthew DeStefano, SUNY Geneseo

High Performance Nanostructured Organic/Inorganic Hybrids for Functional Applications
Sharon Lin, University at Buffalo

COMMUNICATION, GRAPHIC DESIGN
The Effects of Graphic Design on Socioeconomic Status
Brooke E. LeBeau, Samantha L. Romand, University at Buffalo

EXIST: Working Collaboratively in an E-Publishing Environment
Brigid Munafo, Ashley Bennett, Connee DeHaan, Mackenzie Gillett, Katelyn Cardone, Samuel Castaldo, Kimberly Markell, Kristy Benicase, Gina Fargnoli, SUNY Oswego

Buzz Bark: From Traditional Illustration to Interactive App
Sarah L. Rose, SUNY Oswego

COMPUTER SCIENCE, SYSTEMS, AND SECURITY
Adaptive Power Load Balancing in Cellular Networks
Timothy S. LaRock, Xiaojun Feng, Mariya Z. Zheleva, University at Albany

In Moving Color: Motion Controlled Art Program
Adam M. Doktor, Buffalo State College

Computer Simulation of Some Natural Sciences Problems in Virtual Lab
Daniel A. Stumilo, SUNY Fredonia

Investigation of Transliteration Algorithm Operation in Real Time for Augmented Reality
Jon L. Battison, Buffalo State College

Big Data in Transit
James W. Corpening Ph.D., Buffalo State College

Malware Analysis: A Different Approach
Thomas K. Stachowski, Buffalo State College

The Students' Live Blog
Ewurabena Ashun, Buffalo State College

CONTEMPORARY HEALTH ISSUES
Getting it Up: Improving the HPV Vaccine Uptake among Male College Students
Samantha A. Glassman, SUNY Cortland

The Effects of Regular Massage Therapy on Various Physical Ailments
Paula Scheftic, Traci Maxwell, John Posson, Jonathan Cloutier, Morrisville State College

The Impact of Augmentative and Alternative Communication Use on Parent-Child Relationships
Grace Bonasera, Alexandra Shanahan, SUNY Fredonia

Anabolic Steroids: A Choice with Consequences
Maria Ekener, Monroe Community College

Factors Affecting Prenatal Care in Rural, Low-Income Neighborhoods
Maria G. Gonzalez, SUNY Potsdam

Effect of Aspartate Supplementation on Athletic Performance in Young Men
Zach LaMacchia, Brian Williams, University of Buffalo

Culturally Competent Healthcare Services: Overcoming Language Barriers in Utica, New York
Crystal Bastien, SUNY Institute of Technology at Utica – Rome
ECONOMICS

An Analysis of Preventive Healthcare through the Perspective of Behavioral Economics
Eunice A. Famodimu, SUNY Purchase

EDUCATION

How Prepared are Teacher Candidates for Technology in the Classroom?
Daniel Klein, Buffalo State College

Developing Pedagogical Content Knowledge In Preschool Physical Education Field Experience: Managing Behaviors or Teaching Skill?
Abigail Stewart, SUNY Cortland

The Effects of Curriculum Reform on New York State Public High School Teachers
Jessica L. Gallagher, SUNY New Paltz

ENVIRONMENTAL AND EARTH SCIENCES, STUDY, ENGINEERING

Invasive Species Offer Less Resources for Native Insects
Lauren Grunzweig, Buffalo State College

Abundance and Diversity of Macrofungi in Ranomafana National Park, Madagascar
Alicia Protus, The College of Environmental Science & Forestry, SUNY

Valley Glacier Response to Late Holocene Climate Change: the Role of Glacier Geometry and Forefield Characteristics in Influencing the Magnitude of Advances
Shawn P. Taylor, SUNY Cortland

Malaclemys Terrapin Eggs as Potential Nitrogen Supply for Ammophila breviligulata
Madalyn Faye Forte, The College of Environmental Science & Forestry, SUNY

Water Elevation Changes in the Fox River, Green Bay, Wisconsin
Brandon S. Franks, Buffalo State College

Predator Recognition in Captive Tadjik Markhor (Capra falconeri beptneri): Implications for Reintroduction
Laura R. LaBarge, The College of Environmental Science & Forestry, SUNY

Functional Diversity of Understory Shrubs along an Elevation Gradient in the Atlantic Forest of Brazil
Dario Caminha Paiva, SUNY Oswego

Influence of Lightning Polarity and Convective Processes on Flash Flood Severity
Amanda L. Burke, The College at Brockport, SUNY

Possibility for Climate Influence on Flood Recurrence in the North Eastern Unites States
Grant R. Barney, The College at Brockport

Sustainable Approaches to Food Production
Kelley Mosher, Rebecca Oakes, Phillip Chan, Amanda Low, University at Buffalo

Hydrodynamics of a River Undergoing Environmental Restoration: Buffalo River, Buffalo, NY
Matthew P. Kraft, Buffalo State College

A Creek in Need: A Water Chemistry Analysis of a Stream Slated for Restoration (Line Creek, Schobohare County, NY)
Melissa A. Miller, The College of Agriculture & Technology at Cobleskill

Assessing the Efficiency of an Anaerobic Digester through Food Waste Derived Feedstocks
Jenny R. Frank, The College of Environmental Science & Forestry

The Dissolution of Tremolite Asbestos in Artificial Lysosomal Fluid
Benjamin B. Seidem, The College at Brockport
INDUSTRIAL ENGINEERING, MECHANICAL ENGINEERING
Using Brookhaven National Laboratory's Electric Vehicle Fleet as Grid Support
Yao Aleke, Suffolk County Community College
Constructing Activity-Mobility Patterns of Students Based On UB (University at Buffalo) Card Transactions
Xiao Li, Nicholas Delgobbo, Kwangil Suh, Jingyan Yang, University at Buffalo

Static Force Analysis of a Wing Strut for the Cessna 172 Skyhawk
Kristen Egan, Katie Eberheart, Monroe Community College
Developing an Effective Route for Education in Wind Renewable Energy
Tamuonlye Jack, Juana De Las Mercedes, Farmingdale State College
Improving Production Capacity in a Facility with Workers with Differential Abilities
Daniel A. Everett, Maritime College
Using a Cooling Fin's Temperature Gradient to Detect Water Levels
Michael E. Velazquez, Matthew Baisley, Maritime College

MATHEMATICS
"When it rains, it pours," A Precipitation Investigation of Fredonia, New York
Christopher Shartrand, SUNY Fredonia
A Simple Nonlinear Economic Models of Market Price; The Case of the Cobweb
Kwan Ho Lee, SUNY Geneseo

METEOROLOGY
A Flash Flood Parameter Investigation
Jacob V. Sojda, The College at Brockport

PHYSICS
Modeling a Detection of internally reflected Cherenkov light (DIRC) Particle Detector for High-Multiplicity Collisions
Wilka T. Carvalho, Stony Brook University
Capillary Condensation Transitions and Meniscus: Parallel Planes, Nanotubes, and Wedge
Dylan J. McIntyre, Nicholas C. Jira, SUNY Oswego
Thin Film Solar Cells: Enhancing Efficiency Using Various Nanoparticles
Martin A. Dann, SUNY Oswego
Quasar Emission Line Variability from Hubble Space Telescope Archive Data
Kasey M. Hogan, The College at Brockport
Optical Micromanipulation of Birefringent Objects with Beams with Polarization Singularities
Ann E. O'Brien, SUNY New Paltz
Implementation of Stored Waveform Inverse Fourier Transform (SWIFT) at the LEBIT Facility
Daniel P. Burdette, The College at Brockport
Study of P-N Junctions and Metal to Metal Interfaces
Jeffrey Ellison, The College at Brockport

PSYCHOLOGY
Cross-Cultural Differences in Attitudes toward Altruism, Forgiveness and Gratitude
Felicia Schiefer, Gabriella B. Pietropaolo, Curtis M. Wojcik, SUNY Fredonia
Personality Differences between Physical Education and Psychology Majors at SUNY Cortland
Kathlyn M. Parrish, Catherine P. Miller, SUNY Cortland
Effects of the Bridges to Baccalaureate Program on Student Success
Sarah J. Hohmann, SUNY Purchase
Reproductive Control by Past Sexual Partners and Young Women's Sexual Health Outcomes
Brittany L. Beach, SUNY Geneseo

Identification of Possible and Impossible Depicted Objects in Young Children
Julie A. Planke, SUNY New Paltz

Race of Observer May Mediate Verbal Overshadowing Effects
Cassandra C. Kolock, The College at Brockport

Attachment Styles and Social Media Use
Christina Marquez, SUNY Purchase

The Role of Speech Experience on Cue Trading in Parakeets
Daniel L. E. Carter, Alyssa Tronolone, Kanwal Asif, Ann Cheruvil, University at Buffalo

Concept Formation in Young Children: Categorization of Complex, Asymmetric and Impossible Figures
Shay O'Leary, SUNY New Paltz

Leading the Way: Transfer Students Connect to Purchase College by Taking Action
Paul J. Vespo, Jr., Sullybeth Rivera, SUNY Purchase

Relations between Age and Internal Locus of Control, Academic Self-Efficacy, and Effective Study Habits in College Students
Nichole A. Whiteford, SUNY Fredonia

Within-Compound Associations in Cue Competition and Retrospective Revaluation
Cameo Perry, Katherine Hawes, The College at Brockport

Altering the Commuter Students College Experience through Mentoring
Alexa LaMarca, SUNY Purchase

Examining Neurophysiological Responses to Attachment-Related Stimuli in Grieving Individuals
Jasmine Fay, SUNY Purchase

Does Perceived Attractiveness Depend on Who Else You Recently Saw?
Scott Niedopytalski, SUNY Purchase

The Effect of Race on Mentees’ Experience of Mentoring
Nedinia Lopez, SUNY Purchase

Assessing Attentional Biases in Bereaved Individuals Using the Dot-Probe Paradigm
Melissa C. Siller, SUNY Purchase

Criminal Justice, Sociology, Social Work, Women and Gender Studies

How has DNA Identification and Forensic Science Changed Criminal Investigations over Time?
Jessica James, The College at Brockport

Racial Microaggressions: How They Impact On College Students’ Perceptions of the Campus Climate
Juliana H. Wintrob, SUNY New Paltz

Assessing Attitudes and Perceptions of Health Care and Prescription Drugs
Sarah Hussain, University at Buffalo

Community Mobilization of a Small Town during the AIDS Epidemic
Leah Ferentinos, Binghamton University
SURC 2015 ~ POSTER SESSION II  
2 – 2:45 pm

**POSTER CO-COORDINATORS, SESSION II:** Ms. Jessica Smith, Mr. Daniel Reichert  

**ARTS AND HUMANITIES**  

**SERC House of Fields – Main Floor**  

*How Equine Assisted Therapy Can Improve the Quality of Life for Individuals Diagnosed with Autism, Ages 2-18*  
Haley Haggerty, The College at Brockport  

*Competing Identities in Federico García Lorca’s Spain*  
Blake Cooper, University at Buffalo  

*George Grenville*  
Caleb Follmer, The College at Brockport  

*Qinghai Province and the Question of Chinese Rural Women’s Land Ownership Rights*  
Daniel P. Loebell, University at Buffalo  

*Chidera’s Personal Art Collection*  
Chidera V. Joseph, Onondaga Community College

**BIOLOGICAL SCIENCES**  

*The Role of Dystroglycan in Central Nervous System Myelination*  
Beverly Goldsmith, Suffolk County Community College  

*Lower Urinary Tract Symptoms Associated with Parkinson’s Disease*  
Arezo Aziz, Suffolk County Community College  

*Modulation of Progesterone Receptor Activity Treated with Conjugated Estrogen and Bazedoxifene*  
Eunna Huh, SUNY Fredonia  

*Escherichia coli as a detection and killing system against pathogenic microbes and implications towards antibiotic therapy*  
Maryam Ige, Janki Patel, Helen Liu, Stony Brook University  

*Discovery of Novel Virus Sequences in a Flea Transcriptome*  
Garrett R. Evans, University at Buffalo  

*Antioxidants Boost Male Fertility: The Role of Reactive Oxygen Species (ROS) in Modulating Fertility and Sperm Viability in Drosophila melanogaster*  
Min Kyung Shin, Weily Lang, Jon Rodriguez, LaGuardia Community College  

*Dysregulation of Iron Metabolism in X-Adrenoleukodystrophy*  
Lauren Carnevale, Bradley A Blansky, University at Buffalo  

*The Role of the Nuclear Gene RAD1 in the Stability of the Mitochondrial Genome in Saccharomyces cerevisiae*  
Amber Altrieth, The College at Brockport  

*How Osmolytes Affect the Stability of GNRA Hairpins*  
Kaethe N. Leonard, The College at Brockport  

*Antimicrobial Effects of Essential Oils on Staphylococcus aureus*  
MacKenzie Bryant, Katelyn Andera, Alfred State College  

*The Influence of Osmolytes on the Stability of UNCG Hairpins*  
Michelle Whittum, The College at Brockport  

*Chemical Production of Kopi Luwak*  
Sophie I. Rohcelle, Hanyue Tang, Hao Dong, Xin Zhou, Jiayu Chen, Honglin Ouyang, SUNY Cobleskill
Inducing RNAi by feeding
Jinming Guan, Yunru Jiang, Siyuan Yang, SUNY Cobleskill

The Role of the RCK/p54 Nuclear Localization Signals on Hepatitis C Virus Infection
Samantha L. Kahn, University at Albany

Isolation of Magnetotactic Bacteria from a Graphite Mine in Upstate New York
Jeremy G. Monroe, Adirondack Community College

SEM Analysis of Turtle Embryogenesis
Karina Cruz, SUNY Oswego

A Survey of Mosquito Populations for Evidence of Lateral Gene Transfer
Andrew Becker, Jamestown Community College

Developing an Essential Oil-Based Antibiotic: A Novel Solution to the Treatment of Mastitis in Organic Dairy Cows
Emberstar Wakefield, SUNY Potsdam

Expression of the Inhibitory Receptor Subunit GABAA α2 in Neurons and Glia of Zebrafish Embryos
Jose L. Vazquez, Katelyn M. Andera, MacKenzie M. Bryant, Derek J. Fuerch, Brianna D. Kelly, Victoria C. Marte, Ilsa S. Miller, Kayla M. Murray, Caitlin M. Ryan, Daniel R. Turkewitz, Kayla M. Washington, Alfred State College

The Effect of Limonene on the Biodegradation of Phenanthrene and Polystyrene by Pseudomonas putida and aeruginosa
Richard Hilliard, Tompkins-Cortland Community College

Expression of WHASi from the Non-coding Strand of the Woodchuck Hepatitis Virus
Chelsea Maceda, Vladimir Leshkevic, Tompkins-Cortland Community College

Nitrous Oxide Detection in Dental Operators
Nazia Hasan, Stephen Schneider, Gaurang Dimri, University at Buffalo

The Role of the Nuclear Genes KU70 and KU80 in the Stability of the Mitochondrial Genome in Saccharomyces cerevisiae
Amber Blydy, The College at Brockport

Transmission of Streptococcus equi by Fomites among Stabled Horses
Shana R. Vitouski, Adirondack Community College

Analysis of Borrelia in Lipotena cervi (Deer Keds) as a Model of Infection in the White Tailed Deer Population of New York State
Zachary Jackson, Chelea Cotter, Jamestown Community College

Determination of Hydraulic Resistance of Endovascular Stents
Asmah Shafie, Nalini Gadkary, Nikita Kumar, Erin Giangreco, University at Buffalo

CHEMISTRY, CHEMICAL ENGINEERING

Solubility of Mineral Salts in Binary Solvent Systems of Nonionic Surfactants and Water
Peter McGarvey, The College at Brockport

Synthesis of Cyclopropyl Inhibitors of Invertebrate Sterol Metabolism
Danielle R. Berry, The College of Environmental Science & Forestry

The Impact of Electron Beam Pre-treatment on the Fermentation of Wood-based Sugars
Charlene E. Grabowski, The College of Environmental Science & Forestry, SUNY

Synthesis and Photophysical Investigations of Polynuclear Rhenium (I) Compounds Containing Bridging Imine Donor
Patricia N. Johnson, University at Buffalo

Matthew C. Ellis, SUNY Cortland
COMMUNICATION, GRAPHIC DESIGN
An Examination of the Female Gender Role in Video Games and Related Media
Mohamed Sadek, SUNY Fredonia

COMPUTER SCIENCE, SYSTEMS, AND SECURITY
Unmanned Surface Vehicles for Freighters
Thiru Vikram Suresh, Daniel M. Hall, Ajit Bhat, University at Buffalo
Shapeshifter of Py
Steven D. Maciejewski, Buffalo State College
Type-O’s
Andrew J. Wagner, Buffalo State College
Tap-A-Mole
David J. Dulski, Buffalo State College
Securing Communication within a Network by Leveraging Internet Protocol Security Tunnels
Dilan Samarasinghe, SUNY Albany
The Zombie Game with a Twist
Rafi Safwan, University at Buffalo
DC Comic Design in PyGame
Antoine Darnell Williams, Buffalo State College

CONTEMPORARY HEALTH ISSUES
Giavana M. Buffa, Binghamton University
Does Experience with Caregiving, Informal Helping, and Family Health History Predict Who Volunteers in Healthcare?
Theresa Yera, University at Buffalo
Knowledge, Attitudes and Beliefs among School-Aged Children Regarding School Food
Hayley M. Davis, SUNY Potsdam
Relationship between Estimations and Actual Physical Activity in College Students
Margaret T. Wall, SUNY Potsdam
Dose Response Effect of Caffeine on Appetite Sensations and Mood
Faryal Sahibzada, Leah Panek, Erin O’Brien, Edison Soon, University at Buffalo

ENVIRONMENTAL AND EARTH SCIENCES, STUDY, ENGINEERING
SUNY-ESF Engineering for a Sustainable Society: Changing the World One Community at a Time
Benjamin S. Taylor, The College of Environmental Science & Forestry, SUNY
A Case Study of the Long Island Pine Barrens Pertaining to Groundwater, Groundwater Contamination and the Benefits of Preservation in Suffolk County, New York
John F. Flood Jr., The College of Environmental Science & Forestry
Pleistocene-Holocene Trace Fossils in Lacustrine Glacial Lake Strata, Geneseo River Valley, New York
William Barnes, Marley Bladis, Matthew Dibiase, Kendall Fitzgerald, Anton Gruning, Davita James, Ryan Kalish, Amara Kattrein, Anne Kelly, Matthew Nigro, Abigail Smith, Brennan Voorheis, SUNY Geneseo
Chemical Stratification and Mercury Distribution of Meromictic Glacial Lake
Asante L. Holder, The College of Environmental Science & Forestry
Statewide Department of Transportation Response to Climate Change Policies
Jennifer R. Perry, SUNY Purchase
Centimeter- to Meter-Scale Structural and Petrographic Variations in a 3-D Exposure in the Migmattie Granite Complex, Southern Maine
Brandon D. Luther, Buffalo State College

Paleotemperature of the Redwater Shale Member of the Sundance Formation Based on Oxygen Isotopes
Owen Cowling, The College at Brockport

Determining the Presence of Sexual Dimorphism in the Species Pseudoboava nigra
Jamal Omar Lavine, Cleane Medeiros, SUNY Oswego

Development of a Soil Phosphorus Rapid Field Analysis Method and Application to Archaeological Sites
Elizabeth M. Kreppel, The College at Brockport

GIS Modeling of Aquaculture Site in Long Island Sound for Nutrient Bio-extraction
Daniel J. Koval, SUNY Purchase

Swallowwort: Analyzing the Effects of a Twining Invasive Forb in Two Monroe County Parks
Scott Ward, The College at Brockport

Geoarchaeological Investigations in WNY Using Ground Penetrating Radar
Trevor W. Jennings, Buffalo State College

Bioethics Questions Raised by Transgenic Experimentation and Science Fiction Literature
Melinda P. Murcin, Jennifer Smith, Genesee Community College

Monitoring the Planned Restoration of Streambeds Following Damage from Hurricane Irene and Tropical Storm Lee
Daniel C. Frank, Peter Nichols, Edward J. Stander, The College of Agriculture & Technology at Cobleskill

Faunal Indicators of Hydrologic Change in Restored Wetlands Related to Climate Change
Jenn L. Curry, The College at Brockport

Exercise Science
The Influence of Carbohydrate Plus Protein Supplementation on Markers of Exercise Induced Muscle Damage
Adam Szczupzkowski, Michael Gallivan, The College at Brockport

The Influence of Carbohydrate vs. Carbohydrate plus Protein Supplementation on Muscle Force Production after Exercise Induced Muscle Damage
Michael Gallivan, Adam Szczupzkowski, The College at Brockport

Industrial Engineering
A Survey of Game-theoretic Models in Natural Disaster and Terrorism Research
Laura C. Devine, University at Buffalo

Mechanical Engineering
Morphing Wing Aircraft Using Piezoelectric Actuators
Walker T. Gosrich, Javier C. Yu, Daniel A. Buckmaster, Alberto Padovan, University at Buffalo

Investigation into the Effectiveness of a Solar-Thermal Clothes Dryer with Exhaust Heat Recovery
Brian C. Mothon, Zachary A. Hale, Alfred State College

Gait Lab Validation of Direct Force Measurement in a Transfemoral Prosthesis
DeWayne L. Garner Jr., Onondaga Community College

Membrane Heat Pump for Combined Sensible and Latent Cooling
Josh Kerr, Zack Pettenatti, Tyler Whitesel, James Daum, Alfred State College

Design To Reduce Corrosion of A Marine Winch Brake
Nathaniel Mucke, Bruce O’Connor, Phil Velazquez, Maritime College
PHYSICS

*Growth and Optical Properties of YFe2O4 Thin Films*
Joshua P. Hinz, Buffalo State College

*Potential Energy Calculations for Water Adsorption on Poly (methyl methacrylate)*
Mateusz J. Zuba SUNY Oswego

*Using Numerical Methods to Simulate Newtonian Mechanics in Video Games*
Timothy J. Dougherty, SUNY Oswego

*Quantifying Forces on Strongly Absorbing Materials Rotating in Optical Traps*
Ryan Kropas, Emily Sobel, SUNY New Paltz

PSYCHOLOGY

*Hijab, Religiosity, and Mental Health in Muslim Women in the United States*
Qurat-ul-ain Gulamhussein, Stony Brook University

*Adolescent Rats Develop Habitual Responding More Slowly Than Do Adults*
Michael D. Fager, Binghamton University

*Working Memory in Typically Developing Adolescents*
Hayley Payne, Buffalo State College

*Can CBA/Cal Mice Discriminate Among Renditions of Ultrasonic Vocalizations within a Defined Category?*
Amanda Russo, University at Buffalo

*Romantic Relationships and Commitment*
Lia A. Monteleone, SUNY Purchase

*Responses to Violence Against Women Awareness Posters: Are Graphic Images Disempowering?*
Valerie R. Marchesi, SUNY Geneseo

*Anxiety and Self-Reliance on Substance Use and Treatment Seeking Attitudes*
Jamie S. Glass, SUNY Purchase

*The Impact of Self-Handicapping in Strategic Board Games upon New Player’s Experiences*
Laura Kopczynski, Emily Smith, SUNY New Paltz

*Experience Performing Actions and Object Perception: Are Gun Experts or Novices More Likely to See a Gun When Holding One?*
Kasey L. Bury, SUNY Purchase

*Self-Monitoring and the Initiation of Long and Short-term Romantic Relationships*
Maria Keller, The College at Brockport

*The Lying Game: The Role of Acting Experience in Lie Detection*
Kathleen E. Dengler, SUNY Purchase

*Pay It Forward*
Tomasilienne T. Lewis-Jones, SUNY Purchase

*Mentoring Provides Effective Support for Freshmen College Students*
Erica V. Sheridan, SUNY Purchase

*The Function of Neural Synchrony between Speakers and Listeners during Language Comprehension*
Stanley Beauvoir, SUNY Purchase

*The Role of GAD-65 in Incubation of Fear Memories*
Peter R. Zambetti, Natalie Odynocki, University at Albany

*Can Music be used to Reduce Racial Bias?*
Ainigriv Morrison, SUNY Purchase
SCHOOL AND COLLEGE EDUCATION
Former International Students at SUNY Fredonia
Minju Kim, SUNY Fredonia
The Interplay of Science Education and Cultural Context
Antara Majumdar, Sushmita Gelda, University at Buffalo

SOCIOLGY, SOCIAL WORK
The Efficiency of Sexual Assault Services Globally
Sarah M. Johnson, The College at Brockport
Victim-Blaming Across Cultures
Hannah Sonner, The College at Brockport
The Umbrella Movement in Hong Kong: The Protestors’ Demands for Democracy
Juliana Ho, Wintrob, SUNY New Paltz
Gender Differences in the Use and Abuse of Weight-Loss Substances
Juweria Dahir, University at Buffalo
Training for the Long Term: An Education with Child Welfare Specialization or On the Job Training?
Kelly L. Forstbauer, Kathryn N. Oakes,
Daniel G. Galusha, Antonie Regulier, SUNY Fredonia

SURC 2015 ~ STUDENT AND FACULTY WORKSHOPS
3 – 4 pm

SUCCESSFUL TRANSITION FROM A 2-YEAR TO A 4-YEAR INSTITUTION
• Erin Rickman, Transfer-Year Experience Coordinator, The College at Brockport
• Rebecca Mack, Transfer Counselor, Monroe Community College

HOW TO IDENTIFY AND APPLY TO THE “RIGHT” GRADUATE SCHOOL
• Nancy Goroff, Associate Provost and Associate Dean of the Graduate School, Stony Brook University
• James Spiller, Dean of The Graduate School, The College at Brockport

PROFESSIONAL TIPS FOR CAREER SUCCESS
• Jill Wesley, The College at Brockport
• Tibor Dobri, Precision Optical Transceivers
• Randall Filighera, Geico
• Yaihara Fortis-Santiago, New York Academy of Sciences
• Bonnie Turner, Trillium Health

NATIONAL SCIENCE FOUNDATION’S GRADUATE RESEARCH FELLOWSHIP PROGRAM
• Joerg Schlatterer, National Science Foundation

RESEARCH GRANTS AND SUNY RESEARCH FOUNDATION NETWORKS OF EXCELLENCE
• Kimberly Eck, Paul Hirsch, Richard Burke, and Angela Wright, SUNY Research Foundation
SURC 2015 ~ ORAL SESSION II
4:15 – 5:30 pm

ART, ARCHITECTURE, AND LIBERAL STUDIES

CHAIR: Ms. Colleen Culley
“Surviving Darwin:” A Multi-Method Darwinian Criticism of Destiny’s Child’s “Survivor”
Blaze Javier Mandela, Fashion Institute of Technology

Entangled Durations: Gordon Matta-Clark’s Bingo
Alexandra Feim, Binghamton University

Healing Through Self-Expression: "Dangerous"
Cecelia Price, SUNY Fredonia

A Vision of Sustainability and Growth in Savona, NY
Brittany Varengo, Katie Dussing, Nicholas Galatioto, Doug Douzant, Josh Greenaker, Nicholas Peraino, Alfred State College

The Global City: Culture in Latin at Spaces as Resistance against Gentrification
Jesus R. Cepin, Lenny Herrera, Binghamton University

BIOLOGICAL SCIENCES

CHAIR: Mr. Noah Reger

Characterization of Ginkgolide B as an Antagonist of Alpha 3 Glycine Receptors
Sampurna Chakrabarti, University at Buffalo

Analyzing mRNA Secondary Structure Using SHAPE Chemistry in Search of Internal Ribosomal Entry Site
Allison H. Martin, SUNY Fredonia

Probing Structure/Function Relationships in the Gurken 5’ UTR
Phillip A. Frankino, Allison H. Martin, SUNY Fredonia

Development of Hypocalciuria and Hyperphosphaturia during Early Stages of Magnesium Deprivation in Mice
Jacob MacWilliams, Nicholas Desain, Justin Leach, The College at Brockport

Expression of Anoctamin 1 in Adult Zebrafish
Clayton Brady, The College at Brockport

BIOLOGICAL SCIENCES

CHAIR: Dr. Ian Shannon

Analyzing Volatile Organic Compounds (VOCs) in Drinking Water in Oswego City
Hilda Posada, SUNY Oswego

Effects of Ethanol on Brain Injury: the Role of Microglial Migration
Sushobhna Batra, University at Buffalo

Exploring the Connection between Sequence and Coordinated Gene Activity for Adjacent Promoter Pairs
Ameen M. Salem, University at Buffalo

European Flight Restrictions May Inhibit International Propagation of Ebola
Nicholas A. Yager, Matthew D. Taylor, SUNY Geneseo

Structure Activity Relationship Studies of Small Molecules Directed against the T-box Specifier Loop
Spencer F. Weintraub, Adirondack Community College
BUSINESS

CHAIR: Dr. Priyamradha Rangan
Regional Economic Integration: The EU Case
Yazid Bahloul, SUNY Empire State College
Is Your Smartphone Destroying the Planet?
Kristofer Tipton, SUNY Empire State College
Oil Prices and Stock Market Performance: A Five Country Comparative Analysis
David Sieber, The College at Brockport

CHEMISTRY, CHEMICAL ENGINEERING

CHAIR: Dr. Markus Hoffmann
Novel Variable Modifications to Polyketide Synthase Pathway and Screen Process
Max Simon, University at Buffalo
Cellulose Nanocrystal (CNC) Cationic Derivatives Induce NLRP3 Inflammasome-dependent IL-1β Secretion Associated with Mitochondrial ROS Production
Erinolauluwa F. Araoye, Dejhy S. Pyram, SUNY Plattsburgh
Monitoring Volatile Organic Compounds Removal by Indoor Plants
Timothy T. Jones, SUNY Oswego
Biological Upgrading of Hemicellulose Derived Xylose
Zach H. Spangler, The College of Environmental Science & Forestry, SUNY
Differentiation of Human, Animal and Synthetic Hair by ATR FTIR Spectroscopy
Jeremy Manheim, University at Albany

COMMUNICATION

CHAIR: Mr. Ethan Gormley
Geneseo Photography Collection
Shari L. Iannucci, SUNY Geneseo
Deceptions Online: From Facebook to Online Dating
Ziv Noam, The College at Brockport
Graphic Flash: A Collaboration of Writing, Arts and Media
Ethan S. Gormley, Cassidy Carroll, Guilherme Assis, Crystal Flowers, Tara Fox, Imani Gary, Melissa Gottlieb, Calvin Nemec, Daniel Stalter, SUNY Oswego

COMPUTER SCIENCE, SYSTEMS, AND SECURITY

CHAIR: Mr. Tony Morse
Modeling Attacks and Defenses of Operating Systems in Driverless Cars using Game Theory
Kyoung Eun Park, University at Buffalo
Using Internet Protocol Security to Create Tunnels to Communicate Securely on a Network
Jenna D. Donvito, Zachary J. Burns, University at Albany
Implementing IPsec to Establish Secure Tunnels and Communications
Holden Shapira, University at Albany
A Repository of Cloud Services for Small and Micro Enterprises
Matthew Panebianco, The College at Brockport

CONTEMPORARY HEALTH ISSUES, EXERCISE SCIENCE

CHAIR: Ms. Gina Stephan
The Impact of Social and Digital Media on Stress
Yolanda Mabry, Empire State College, SUNY
Case Study of BA1: Prescribing Playlists for Pain
Gabrielle Bouissou, SUNY New Paltz

Fuel utilization of Supported Treadmill Running
Adam C. Lowe, SUNY Cortland

Physical Activity Participation Patterns among Latinos in the Northeast
Karen S. Martinez, SUNY Cortland

ENGLISH - CREATIVE WRITING

Chair: Dr. James Whorton
“What you want from me?” - Addressing my food for thought
Joseph Wreh, Jr., University at Buffalo
“Shelter: Caught in the Blast”
Ryan Sheperd, The College at Brockport

The American Language: Transitional Voices in the Craft of Poetry
Christian Wessels, The College at Brockport

Gravity and Other Minor Obstructions
Jacob Trask, The College at Brockport

ENGLISH - LITERATURE

Chair: Ms. Shannon Pfeiffer

Dostoevsky’s Crime and Punishment and the Problem of Evil
Melody Beth Tomlinson, The College at Old Westbury

Blood Memory: An Intersubjective Look At Native American Children’s Generational Shame through the text of Sherman Alexie’s Absolutely True Diary of a Part-Time Indian
Hannah Rankin, Monroe Community College

How We Were Never Autonomous: Reproduction, Disability, and Interdependence in Lilith’s Brood
Sean B. Neill, SUNY Geneseo

A Child’s Experience: The Nature of Trauma and the Role of Literature in Promoting Youth’s Understanding of Global Progress through Debra Ellis’ The Breadwinner
Esther G. Elliott, Monroe Community College

What Is A Choice: Life Lessons Learned From Moby Dick and The Scarlet Letter
Danhui Dong, University at Buffalo

ENVIRONMENTAL SCIENCES, STUDY, ENGINEERING

Chair: Mr. David Krebs

Fatty Acid Signatures of Lake Michigan Prey
Matt H. Futia, The College at Brockport

Simulations of Lake-effect Storms during the Ontario Winter Lake-effect Systems Project
Dillon R. Ulrich, Andrew R. JAniszeski, SUNY Oswego

Lake-effect Lightning during the Ontario Winter Lake-effect Systems (OWLes) Project
Tyler Kranz, SUNY Oswego

Environmental Awareness Workshop: An Introduction to Green Initiatives at SUNY Brockport
Sarah A. Dobie, College at Brockport

Effectiveness of Muslin Fabric Filtration for Drinking Water Treatment in Developing Countries
Robert S. Swick, University at Buffalo

ENVIRONMENTAL SCIENCES, STUDY, ENGINEERING

Chair: Mr. Jeremy Kraus

Is the Southern Tier Region of New York on the Verge of a Major Increase in Lyme disease?
Matthew T. McAuliffe, Binghamton University
Measuring *Ixodes scapularis* and *Borrelia burgdorferi* Abundance in Oswego County, NY
  Katherine Hilburger, Zuzi Salais, SUNY Oswego

Antibiotic Resistance Patterns and Parasite Prevalence in Captive versus Free Roaming Anseriformes in a Zoo Setting
  Miru Watanabe, Saddam Alrobaie, Fatima Zara, Omar Pimentel, Monroe Community College

SUNY Oneonta Campus Invasive Plant Survey, Removal, and Replacement Plan
  Sara June L. Bouillon, SUNY Oneonta

**HISTORY**

**Chair:** Ms. Sarah Kysor

“Born in Slavery”: Tracking the Movement of Former Slaves in the Post-Civil War Era
  Joseph Gardella, University at Buffalo

*Benjamin Franklin: A Glimpse of Imperfection*
  Michael W. Scholjan, The College at Brockport

*A Breath of Freedom: The Role of the Freedom Schools in Politicizing Mississippi’s Black Youths*
  Todd W. Christensen, SUNY Geneseo

*The Attica Prison Riot’s Effect on Corrections Officers, Staffing, and the New York State Prison System*
  Claire E. Burgon, University at Albany

Lost Dunkirk
  Russell Wallace, SUNY Fredonia

**POLITICAL SCIENCE, ECONOMICS, JUSTICE, AND SOCIOLOGY**

**Chair:** Mr. Andrew Russo

*The Effects of "Strain" on Student Loan Debtors*
  Evan Ling, The College at Brockport

*The Relation between Political Identity and Architecture in Wroclaw and Budapest*
  Felicia L. Heideman, The College at Brockport

*Radical Populism: A New Pragmatic Revolt in Politics*
  Daniel Smith, Stony Brook University

*A Study on the Relationship between Social Spending and Human Development*
  Sean Etter, SUNY Geneseo

*The U.S. Economic Growth Factors by Using Regression Analysis*
  Songyi Paik, SUNY Geneseo

**PSYCHOLOGY**

**Chair:** Ms. Gabrielle Clark

*The Effect of Heroin Self-Administration on Perineuronal Nets using an Animal Conflict Model of Abstinence and Relapse*
  Amanda Shaw, SUNY Cortland

*Self-Control and Impulsiveness in Adult Humans: Different Reinforcers*
  Kendra L. Andrew, Michael Bennett, Paul Drake, The College at Brockport

*The Human Microbiome and Its Influence upon Human Health*
  Barbara J. Bennett, Broome Community College

*Slow Learning about Inhibitors in Human Contingency Learning*
  Ryan Hutchings, The College at Brockport
Examining the Relationship between Family Routines during Adolescence and Young Adult Health Behaviors

title

Effects of Labeling

Investigation of the Psychometric Properties of the Informant-Report Form of the Personality Inventory for DSM-5

Coping

Effects of Color and Mascot Choices on Consumer Preference, Fan Association and Societal Acceptance

The Under Representation of Women Sports in the Media: Society Compared with The College at Brockport

Communication Competency: Coaches and the Media

Echoes of Emily

Theatre during the English Restoration
Tenor Passaggio in the Repertoire of the American Musical Theatre
Robert C. Sherman, Buffalo State College

Bridging Theatre, School, Business, and Literacy: Discovering Creativity through Theatre Exercises
Jaime M. Arena, SUNY Geneseo

Women and Gender Studies, Creative Studies

Liberal Arts Building 106A

Chair: Dr. Barbara LeSavoy

Title IX Awareness of Student Populations on the College at Brockport Campus
Taryn Mogavero, The College at Brockport

Hey! Take a Look in the Mirror: The Magnitude of Intrapersonal Skills
Naomi Skarupinski, Buffalo State College

The Realities and Unrealities of Borderline Personality Disorder
Jessica A. Heppler, SUNY Geneseo

Revolution Resolution
Ronan Cichelli, Dean L. Bavisotto, Grahm Caulfield, SUNY Fredonia

Adiposity and Anarchism: Exposing and Examining Fat Oppression in a Capitalist Society
Sarah Mae Richens, The College at Brockport

The (de)Evolution of the Disney Princesses
Courtney Gazda, The College at Brockport

The College at Brockport
State University of New York
Meter Locations:
Lots D1, O, N, U, Tower East, Allen Loop, Tuttle Loop, and Cooper

Pay Stations Location:
Lot V

Load/Unload Areas:
Allen, Lots E, F, G, S, J, MacVicar/McFarlane Benedict/Dobson, Hartwell Loop, Harmon/Gordon, and Harrison

Carpool Locations:
Lots F, G, O, N, and Q

Parking Key:
* All vehicles must have a Brockport parking permit.* Visitors must park and pay at a meter, pay station, or obtain a parking permit from the Conrad Welcome Center.

<table>
<thead>
<tr>
<th>Permit Color</th>
<th>Lot(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue (Faculty &amp; Staff)</td>
<td>B, D, D1, E, F, G, H, J, K, M, N, N1, O, P, Q, R, S, T, V, X (6:30 am until 2 am)</td>
</tr>
<tr>
<td>Orange (Commuter)</td>
<td>D, D1, M, N, N1, O, P, R, T, V, V1, W1, X (6:30 am - 2 am)</td>
</tr>
<tr>
<td>Brown (Commuter)</td>
<td>D, D1, M, N, N1, O, P, R, T, V, V1, W1, X (4:30 pm - 2 am)</td>
</tr>
<tr>
<td>Yellow (Resident)</td>
<td>A, C (24 hours)</td>
</tr>
<tr>
<td>Purple (Resident)</td>
<td>Y (24 hours)</td>
</tr>
<tr>
<td>Red</td>
<td>Any (except lots A, C, L, Y)</td>
</tr>
</tbody>
</table>

Visiting Groups:
Contact Parking and Transportation Services

Authorized 24-hour parking area
Blue............................. B, M, X
Red ............................. V1, X
Yellow ......................... A, C
Purple .......................... Y

*Parking area L - Admissions permit required.

Designated Smoking Areas = Lots A and D1
Eco-Friendly Parking Spaces = Lots P, Q, S, T and W
Blue Light Emergency Phones =
Yellow Box Emergency Phones =

ACADEMIC
51. Cooper Hall
55. Drake Memorial Library
13. Edwards Hall
25. Albert W. Brown Building
1. Hartwell Hall
14. Holmes Hall
7. Lathrop Hall
7. Neff Hall
21. Lennon Hall
12. Smith Hall
32. Tower Fine Arts Center
53. Tuttle North
52. Tuttle South
54. Special Events and Recreation Center (SERC)
57. Liberal Arts Building

SERVICE
56. Allen Administration Building
0. Alumni House
35. Chapman Service Center
36. Commissary
26. Dailey Hall
11. Hazen Hall
8. Morgan Hall/Graduate Studies/University Police

18. Burlingame House
23. Rakov Center for Student Services/Undergraduate Admissions
22. Seymour College Union
98. Eunice Kennedy Shriver Stadium
125. Conrad Welcome Center/Parking

RESIDENCE HALLS
28. Benedict
40. Bramley
41. Briggs
29. Dobson
31. Gordon
30. Harmon

STUDENT TOWNHOMES
130. Community Ctr
131. Bldg 1
132. Bldg 2
133. Bldg 3
134. Bldg 4

DINING
1. Hartwell Cafe
37. Brockway
22. Union Square/Jitterbugs
55. Aerie Cafe

Closed until Fall 2015