FIRST ANNUAL SUNY UNDERGRADUATE RESEARCH CONFERENCE

APRIL 10, 2015
# SURC 2015 CONFERENCE SCHEDULE

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

George Kuh is a renowned higher education innovator, a “towering figure” according to *The Chronicle of Higher Education*—who “launched the field of assessment of institutional quality.” As founder of Indiana University’s (IU) Center for Postsecondary Research and the National Survey of Student Engagement (NSSE), Kuh has led a national push to enrich the undergraduate and graduate student experiences.

An adjunct research professor of education policy at the University of Illinois and Chancellor’s Professor of Higher Education Emeritus at IU, Kuh directs the National Institute for Learning Outcomes Assessment and founded the Strategic National Arts Alumni Project. He is a prolific scholar whose recent books include *Using Evidence of Student Learning to Improve Higher Education* (2015), *Ensuring Quality and Taking High-Impact Practices to Scale* (2013), *High Impact Practices* (2008), *Piecing Together the Student Success Puzzle* (2007), and *Student Success in College: Creating Conditions That Matter* (2005, 2010). An active consultant to institutions of higher education in the United States and abroad, Kuh is past-president of the Association for the Study of Higher Education (ASHE) and serves on the Board of Regents at Luther College and the National Leadership Council for the Association of American Colleges and Universities “Liberal Education and America’s Promise” initiative.

George earned the B.A. from Luther College, M.S. from St. Cloud State University, and Ph.D. from the University of Iowa. In addition to many awards for educational leadership and innovation, Kuh is the recipient of nine honorary degrees.
April 10, 2015

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

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Thank you to SURC 2015 Fair Representatives:

SUNY Graduate Institutions
Binghamham University
SUNY Buffalo State
SUNY Cortland
SUNY Downstate Medical Center
SUNY Empire State College
SUNY Fredonia
SUNY Potsdam
Stony Brook University
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SUNY Study Abroad Programs
SUNY Geneseo
SUNY at Oswego
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New York Academy of Sciences
National Science Foundation
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SUNY Potsdam
Stony Brook University
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University at Buffalo College of Arts & Sciences
Upstate Medical University
The College at Brockport

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 Tetradsulia  
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 Behn: 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 vermiculophyla in the Long Island Sound as Compared to Native Gracilaria tikvahiae
Leah M. Gorman, SUNY Purchase

Population Genetics of Bowfins (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

Restification, 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 circum-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**

**Holmes Hall 204**

**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 DeBiasi, 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**

**Hartwell Hall 52**

**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**

**Holmes Hall B0001**

**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
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 Anneckino, The College at Brockport
The Positive Effects of Pre-Marital Counseling on Identity
   Marlisha Marcellin, Sullivan County Community College

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

HARTWELL HALL DANCE THEATER


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 Kralik, 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 EcologicalRoles 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 Stickleback (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 1
Thien D. Luu, Timothy DeMarsh, The College of Agriculture & Technology at Cobleskill, SUNY

How the Cellular Environment Influences Hybrid Duplex Conformation
Pakinee Phromsiri, 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
Cale 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. Catalfamo, 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. Stumio, 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 heptneri): 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, Schobbarie 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. Seideman, The College at Brockport
INDUSTRIAL ENGINEERING, MECHANICAL ENGINEERING
Using Brookhaven National Laboratory's Electric Vehicle Fleet as Grid Support
Yao Alekem, 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
Tamunotonye 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 Genesee

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 Genesee

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 Cheruivil, 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

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 Osmolutes 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 Osmolutes 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 GABA A 2 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 WHAS1 from the Non-coding Strand of the Woodchuck Hepatitis Virus
   Chelsea Maceda, Vladimir Leshkevic, Tompkins-Cortland Community College

Nitrous Oxide Detection in Dental Operatories
   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 Blidy, 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

Shapesifter 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 Migmatite 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 Pseudoboa 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 Padovani, 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

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**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/Caj 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 Fein, 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 Galatito, 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*
Erinolaoluwa 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 Shapiro, 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

LIBERAL ARTS BUILDING 108

LIBERAL ARTS BUILDING 104 A/B

HARTWELL HALL 125

HARTWELL HALL 221

HARTWELL HALL 120
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. JAniszewski, 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 Anseriforms in a Zoo Setting
Miri 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
  Kaitlyn Koban, The College at Brockport
Effects of Labeling
  Katherine Quinn, The College at Brockport
Investigation of the Psychometric Properties of the Informant-Report Form of the Personality Inventory for DSM-5
  Shontay Barnes, University at Buffalo
Coping
  Jessica L. Carson, SUNY Fredonia

Overrepresentation of Culturally and Linguistically Diverse Students in Special Education
  Hannah Arlington, The College at Brockport
Utilizing the ePortfolio to Help Create the Next Stepping Stone in an Undergraduate Student’s Career
  Kyle L. Brubaker, SUNY Polytechnic Institute
Teaching Writing for Students with Learning Disabilities in an Inclusive Classroom Setting: A Curriculum Development Project
  Ashley M. Golley, The College at Brockport
Student’s Engagement with Assignment Readings: While in Binghamton University’s 4-Week Bride Program
  Elijah Simmons, Binghamton University

Sport Consumer Motivation in Intercollegiate Athletics
  Allison Einhouse, Joseph Ortiz, Jeremiah Deline, The College at Brockport
Corruption in NCAA Basketball: Evidence for Bias in Seeding the NCAA Men’s Basketball Tournament
  Tyler C. Ross, Ishmael A. Pierre, The College at Brockport
The Effects of Color and Mascot Choices on Consumer Preference, Fan Association and Societal Acceptance
  Victoria Durso, Louis Mastellone, The College at Brockport
The Under Representation of Women Sports in the Media: Society Compared with The College at Brockport
  Gabrielle M. Harrington, Kristen A. Lansburg, The College at Brockport
Communication Competency: Coaches and the Media
  Kaylee E. May, SUNY Oswego

Echoes of Emily
  Caeli Faisst, SUNY Fredonia
Theatre during the English Restoration
  Robert A. Miller, The College at Brockport
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
SUNY Institutions with Graduate Programs

- University Centers and Doctoral Degree Granting Institutions
- University Colleges
- Technology Colleges
- Community Colleges

*Empire State College has 35 locations throughout New York State.*
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.

Permit Color          Lot(s)
Blue (Faculty & Staff).......... 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)
Orange (Commuter) ........... D, D1, M, N, N1, O, P, R, T, V, V1, W1, X (6:30 am - 2 am)
Brown (Commuter) ............. D, D1, M, N, N1, O, P, R, T, V, V1, W1, X (4:30 pm - 2 am)
Yellow (Resident) ............... A, C (24 hours)
Purple (Resident) ............... Y (24 hours)
Red ... Any (except lots A, C, L, Y)
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 =

20. MacVicar
27. McFarlane
19. McLean
42. Mortimer
39. Perry
9. Thompson
135. Bldg 5
136. Bldg 6
137. Bldg 7
138. Bldg 8
38. Harrison/TRAX
51. Cooper - NY Rm & Presidential Dining Rm
52. Kinetic Kafe

Smoke-free Campus

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
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